

# CITATION REPORT

List of articles citing

## Rho GTPases and the actin cytoskeleton

DOI: 10.1126/science.279.5350.509  
Science, 1998, 279, 509-14.

**Source:** <https://exaly.com/paper-pdf/29292152/citation-report.pdf>

**Version:** 2024-04-23

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| #    | Paper  | IF   | Citations |
|------|--|------|-----------|
| 2304 | Effects of intra-adrenal infusion of potassium on urinary potassium excretion in the dog. <b>1960</b> , 104, 764-7   |      | 1         |
| 2303 | Unconventional myosins in cell movement, membrane traffic, and signal transduction. <i>Science</i> , <b>1998</b> , 279, 527-33                                     | 33.3 | 580       |
| 2302 | Stimulation of phospholipase C-beta2 by the Rho GTPases Cdc42Hs and Rac1. <b>1998</b> , 17, 6241-9   |      | 96        |
| 2301 | Invasion of T-lymphoma cells: cooperation between Rho family GTPases and lysophospholipid receptor signaling. <b>1998</b> , 17, 4066-74                            |      | 206       |
| 2300 | A new method for isolating tyrosine kinase substrates used to identify fish, an SH3 and PX domain-containing protein, and Src substrate. <b>1998</b> , 17, 4346-57 |      | 144       |
| 2299 | The Cdc42p effector Gic2p is targeted for ubiquitin-dependent degradation by the SCFGrr1 complex. <b>1998</b> , 17, 5360-73  |      | 89        |
| 2298 | Tec/Bmx non-receptor tyrosine kinases are involved in regulation of Rho and serum response factor by Galpha12/13. <b>1998</b> , 17, 5638-46                        |      | 83        |
| 2297 | A Nck-Pak1 signaling module is required for T-cell receptor-mediated activation of NFAT, but not of JNK. <b>1998</b> , 17, 5647-57                                 |      | 105       |
| 2296 | Kit signaling through PI 3-kinase and Src kinase pathways: an essential role for Rac1 and JNK activation in mast cell proliferation. <b>1998</b> , 17, 6250-62     |      | 216       |
| 2295 | Role of cellular actin in the gene expression and morphogenesis of human respiratory syncytial virus. <b>1998</b> , 252, 137-48                                    |      | 101       |
| 2294 | Cofilin phosphorylation by LIM-kinase 1 and its role in Rac-mediated actin reorganization. <b>1998</b> , 393, 809-12   |      | 1060      |
| 2293 | Structure of a heparin-linked biologically active dimer of fibroblast growth factor. <b>1998</b> , 393, 812-7  |      | 331       |
| 2292 | The p35/Cdk5 kinase is a neuron-specific Rac effector that inhibits Pak1 activity. <b>1998</b> , 395, 194-8  |      | 349       |
| 2291 | Rho-dependent cell spreading activated by E.coli cytotoxic necrotizing factor 1 hinders apoptosis in epithelial cells. <b>1998</b> , 5, 921-9                      |      | 58        |
| 2290 | Signaling by integrin receptors. <b>1998</b> , 17, 1365-73   |      | 229       |
| 2289 | Structure and mutagenesis of the Dbl homology domain. <b>1998</b> , 5, 1098-107  |      | 116       |
| 2288 | Mind the GAP, Rho, Rab and GDI. <b>1998</b> , 19, 106-8  |      | 33        |

|      |   |     |
|------|---|-----|
| 2287 | A chilled-out knockout. <b>1998</b> , 19, 108-9   | 12  |
| 2286 | The Mechanics of Vascular Cell Motility. <b>1998</b> , 5, 239-257   | 23  |
| 2285 | Frizzled signaling and the developmental control of cell polarity. <b>1998</b> , 14, 452-8  | 158 |
| 2284 | Polarized trafficking of plasma membrane proteins: emerging roles for coats, SNAREs, GTPases and their link to the cytoskeleton. <b>1998</b> , 1376, 57-90                | 43  |
| 2283 | Signaling tip growth in plants. <b>1998</b> , 1, 525-30   | 69  |
| 2282 | Control of mitotic events by the Cdc42 GTPase, the Clb2 cyclin and a member of the PAK kinase family. <b>1998</b> , 8, 991-1000   | 80  |
| 2281 | Drosophila morphogenesis: orchestrating cell rearrangements. <b>1998</b> , 8, R853-5  | 4   |
| 2280 | Actin cytoskeleton organization regulated by the PAK family of protein kinases. <b>1998</b> , 8, 967-70   | 76  |
| 2279 | Exogenous phospholipase D generates lysophosphatidic acid and activates Ras, Rho and Ca <sup>2+</sup> signaling pathways. <b>1998</b> , 8, 386-92                         | 91  |
| 2278 | EGF induces recycling membrane to form ruffles. <b>1998</b> , 8, 721-4  | 75  |
| 2277 | Chp, a homologue of the GTPase Cdc42Hs, activates the JNK pathway and is implicated in reorganizing the actin cytoskeleton. <b>1998</b> , 8, 1125-8                       | 110 |
| 2276 | Expanding complexity in myotonic dystrophy. <b>1998</b> , 20, 901-12  | 54  |
| 2275 | Chondrocyte-matrix attachment complexes mediate survival and differentiation. <b>1998</b> , 43, 111-22  | 38  |
| 2274 | Epidermal growth factor receptor-mediated motility in fibroblasts. <b>1998</b> , 43, 395-411  | 75  |
| 2273 | Signaling of de-adhesion in cellular regulation and motility. <b>1998</b> , 43, 420-32  | 82  |
| 2272 | Understanding the molecular basis of Wiskott-Aldrich syndrome. <b>1998</b> , 54, 1145-53  | 14  |
| 2271 | Inhibition of K-ras-transformed rodent and human cancer cell growth via induction of apoptosis by irreversible inhibitors of Ras endoprotease. <b>1998</b> , 131, 191-200 | 23  |
| 2270 | Assembling an actin cytoskeleton for cell attachment and movement. <b>1998</b> , 1404, 271-81   | 196 |

|      |  |      |
|------|--|------|
| 2269 | Role of rho proteins in agonist regulation of phospholipase D in HL-60 cells. <b>1998</b> , 1405, 161-70   | 11   |
| 2268 | Cytomechanics of cadherin-mediated cell-cell adhesion. <b>1998</b> , 10, 572-7   | 244  |
| 2267 | Extracellular matrix signaling: integration of form and function in normal and malignant cells. <b>1998</b> , 10, 640-6  | 292  |
| 2266 | Ras--a versatile cellular switch. <b>1998</b> , 8, 412-8   | 89   |
| 2265 | Signaling by Eph receptors and their ephrin ligands. <b>1998</b> , 8, 375-82   | 127  |
| 2264 | Chemokines and T lymphocytes: more than an attraction. <b>1998</b> , 9, 1-11   | 384  |
| 2263 | Wiskott-Aldrich syndrome protein-deficient mice reveal a role for WASP in T but not B cell activation. <b>1998</b> , 9, 81-91  | 439  |
| 2262 | Stress-induced fractal rearrangement of the endothelial cell cytoskeleton causes apoptosis. <b>1998</b> , 124, 362-371   | 39   |
| 2261 | UNC-73 activates the Rac GTPase and is required for cell and growth cone migrations in <i>C. elegans</i> . <b>1998</b> , 92, 785-95  | 272  |
| 2260 | Molecular distinction and angiogenic interaction between embryonic arteries and veins revealed by ephrin-B2 and its receptor Eph-B4. <b>1998</b> , 93, 741-53              | 1397 |
| 2259 | Crystal structure of the Dbl and pleckstrin homology domains from the human Son of sevenless protein. <b>1998</b> , 95, 259-68   | 202  |
| 2258 | Cdc42 is required for membrane dependent actin polymerization in vitro. <b>1998</b> , 427, 353-6   | 36   |
| 2257 | Evidence that the AMP-activated protein kinase stimulates rat liver carnitine palmitoyltransferase I by phosphorylating cytoskeletal components. <b>1998</b> , 439, 317-20 | 33   |
| 2256 | Phosphoinositide lipids as signaling molecules: common themes for signal transduction, cytoskeletal regulation, and membrane trafficking. <b>1998</b> , 14, 231-64         | 452  |
| 2255 | Heregulin regulates cytoskeletal reorganization and cell migration through the p21-activated kinase-1 via phosphatidylinositol-3 kinase. <b>1998</b> , 273, 28238-46       | 227  |
| 2254 | Localization of RhoA GTPase to endothelial caveolae-enriched membrane domains. <b>1998</b> , 247, 888-93   | 98   |
| 2253 | Shs1p: a novel member of septin that interacts with spa2p, involved in polarized growth in <i>saccharomyces cerevisiae</i> . <b>1998</b> , 251, 732-6                      | 87   |
| 2252 | Cellularization in <i>Drosophila melanogaster</i> is disrupted by the inhibition of rho activity and the activation of Cdc42 function. <b>1998</b> , 204, 151-64           | 63   |

|      |   |      |     |
|------|---|------|-----|
| 2251 | Regulation of astrocyte morphology by RhoA and lysophosphatidic acid. <b>1998</b> , 245, 252-62   |      | 129 |
| 2250 | Human ARHGDI1, a GDP-dissociation inhibitor for Rho proteins: genomic structure, sequence, expression analysis, and mapping to chromosome 16p13.3. <b>1998</b> , 53, 104-9                        |      | 11  |
| 2249 | Spatial characteristics to calcium signalling; the calcium wave as a basic unit in plant cell calcium signalling. <b>1998</b> , 353, 1463-1473  |      | 58  |
| 2248 | Phosphorylation-dependent and constitutive activation of Rho proteins by wild-type and oncogenic Vav-2. <b>1998</b> , 17, 6608-21   |      | 217 |
| 2247 | Neutrophil-derived 5'-adenosine monophosphate promotes endothelial barrier function via CD73-mediated conversion to adenosine and endothelial A2B receptor activation. <b>1998</b> , 188, 1433-43 |      | 189 |
| 2246 | Sphingosine-1-phosphate as a ligand for the G protein-coupled receptor EDG-1. <i>Science</i> , <b>1998</b> , 279, 1552-53   | 33.3 | 887 |
| 2245 | Direct stimulation of the guanine nucleotide exchange activity of p115 RhoGEF by Galpha13. <i>Science</i> , <b>1998</b> , 280, 2112-4   | 33.3 | 699 |
| 2244 | The role of Far1p in linking the heterotrimeric G protein to polarity establishment proteins during yeast mating. <i>Science</i> , <b>1998</b> , 282, 1511-6                                      | 33.3 | 180 |
| 2243 | Identification of two distinct mechanisms of phagocytosis controlled by different Rho GTPases. <i>Science</i> , <b>1998</b> , 282, 1717-21  | 33.3 | 778 |
| 2242 | The essential role of profilin in the assembly of actin for microspike formation. <b>1998</b> , 17, 6516-26   |      | 191 |
| 2241 | Structural and functional regulation of tight junctions by RhoA and Rac1 small GTPases. <b>1998</b> , 142, 101-15   |      | 305 |
| 2240 | A new member of the Rho family, Rnd1, promotes disassembly of actin filament structures and loss of cell adhesion. <b>1998</b> , 141, 187-97  |      | 301 |
| 2239 | Activation of Rac1 by a Crk SH3-binding protein, DOCK180. <b>1998</b> , 12, 3331-6  |      | 360 |
| 2238 | Roles of Rho-associated kinase in cytokinesis; mutations in Rho-associated kinase phosphorylation sites impair cytokinetic segregation of glial filaments. <b>1998</b> , 143, 1249-58             |      | 155 |
| 2237 | Remodeling of the actin cytoskeleton is coordinately regulated by protein kinase C and the ADP-ribosylation factor nucleotide exchange factor ARNO. <b>1998</b> , 9, 3133-46                      |      | 116 |
| 2236 | Post-transcriptional regulation of endothelial nitric oxide synthase mRNA stability by Rho GTPase. <b>1998</b> , 273, 24266-71  |      | 802 |
| 2235 | Myoblast city, the Drosophila homolog of DOCK180/CED-5, is required in a Rac signaling pathway utilized for multiple developmental processes. <b>1998</b> , 12, 3337-42                           |      | 184 |
| 2234 | RhoG GTPase controls a pathway that independently activates Rac1 and Cdc42Hs. <b>1998</b> , 9, 1379-94  |      | 147 |

|      |  |     |
|------|--|-----|
| 2233 | Effects of regulated expression of mutant RhoA and Rac1 small GTPases on the development of epithelial (MDCK) cell polarity. <b>1998</b> , 142, 85-100   | 266 |
| 2232 | Visualization and molecular analysis of actin assembly in living cells. <b>1998</b> , 143, 1919-30   | 157 |
| 2231 | Intracellular pathogens and the actin cytoskeleton. <b>1998</b> , 14, 137-66   | 206 |
| 2230 | CdGAP, a novel proline-rich GTPase-activating protein for Cdc42 and Rac. <b>1998</b> , 273, 29172-7  | 62  |
| 2229 | Interaction of Bnr1p with a novel Src homology 3 domain-containing Hof1p. Implication in cytokinesis in <i>Saccharomyces cerevisiae</i> . <b>1998</b> , 273, 28341-5                                       | 126 |
| 2228 | Transformation activity of Cdc42 requires a region unique to Rho-related proteins. <b>1998</b> , 273, 16655-8  | 40  |
| 2227 | MSS4, a phosphatidylinositol-4-phosphate 5-kinase required for organization of the actin cytoskeleton in <i>Saccharomyces cerevisiae</i> . <b>1998</b> , 273, 15787-93                                     | 173 |
| 2226 | Fibroblast transformation by Fps/Fes tyrosine kinases requires Ras, Rac, and Cdc42 and induces extracellular signal-regulated and c-Jun N-terminal kinase activation. <b>1998</b> , 273, 13828-34          | 33  |
| 2225 | Complementary roles for receptor clustering and conformational change in the adhesive and signaling functions of integrin $\alpha$ 5 $\beta$ 3. <b>1998</b> , 141, 1685-95                                 | 215 |
| 2224 | Small espin: a third actin-bundling protein and potential forked protein ortholog in brush border microvilli. <b>1998</b> , 143, 107-19  | 116 |
| 2223 | Regulation of the p21-activated kinase-related <i>Dictyostelium</i> myosin I heavy chain kinase by autophosphorylation, acidic phospholipids, and Ca <sup>2+</sup> -calmodulin. <b>1998</b> , 273, 27911-7 | 24  |
| 2222 | Not just scaffolding: plectin regulates actin dynamics in cultured cells. <b>1998</b> , 12, 3442-51  | 166 |
| 2221 | Rho GTPases. <b>1998</b> , 273, 20685-8  | 522 |
| 2220 | Frabin, a novel FGD1-related actin filament-binding protein capable of changing cell shape and activating c-Jun N-terminal kinase. <b>1998</b> , 273, 18697-700  | 67  |
| 2219 | The transcription factor AP-1 is required for EGF-induced activation of rho-like GTPases, cytoskeletal rearrangements, motility, and in vitro invasion of A431 cells. <b>1998</b> , 143, 1087-99           | 350 |
| 2218 | The Arp2/3 complex mediates actin polymerization induced by the small GTP-binding protein Cdc42. <b>1998</b> , 95, 15362-7   | 160 |
| 2217 | Negative regulation of Rho family GTPases Cdc42 and Rac2 by homodimer formation. <b>1998</b> , 273, 25728-33   | 52  |
| 2216 | Fibronectin matrix regulates activation of RHO and CDC42 GTPases and cell cycle progression. <b>1998</b> , 143, 267-76   | 205 |

|      |  |     |
|------|--|-----|
| 2215 | Identification of a novel cortactin SH3 domain-binding protein and its localization to growth cones of cultured neurons. <b>1998</b> , 18, 5838-51                             | 213 |
| 2214 | Rho and Rab small G proteins coordinately reorganize stress fibers and focal adhesions in MDCK cells. <b>1998</b> , 9, 2561-75   | 94  |
| 2213 | The cytoskeleton in cell volume regulation. <b>1998</b> , 123, 121-34  | 30  |
| 2212 | Versatility of the angiotensin II type 1 receptor. <b>1998</b> , 82, 1352-5  | 22  |
| 2211 | Rac regulates integrin-mediated spreading and increased adhesion of T lymphocytes. <b>1998</b> , 18, 3936-46   | 143 |
| 2210 | RhoA-binding kinase alpha translocation is facilitated by the collapse of the vimentin intermediate filament network. <b>1998</b> , 18, 6325-39                                | 127 |
| 2209 | Chemokines: understanding their role in T-lymphocyte biology. <b>1998</b> , 333 ( Pt 3), 457-70  | 173 |
| 2208 | Rho GTPase signaling regulates tight junction assembly and protects tight junctions during ATP depletion. <b>1998</b> , 275, C798-809  | 119 |
| 2207 | Identification of a signaling pathway activated specifically in the somatodendritic compartment by a heparan sulfate that regulates dendrite growth. <b>1998</b> , 18, 9751-65 | 16  |
| 2206 | Adenovirus endocytosis requires actin cytoskeleton reorganization mediated by Rho family GTPases. <b>1998</b> , 72, 8806-12  | 203 |
| 2205 | Cytosolic free calcium and the cytoskeleton in the control of leukocyte chemotaxis. <b>1998</b> , 78, 949-67   | 94  |
| 2204 | Store-operated calcium entry promotes shape change in pulmonary endothelial cells expressing Trp1. <b>1998</b> , 275, L574-82  | 74  |
| 2203 | Regulation of cytoskeletal mechanics and cell growth by myosin light chain phosphorylation. <b>1998</b> , 275, C1349-56  | 87  |
| 2202 | RAS pathways to cell cycle control and cell transformation. <b>1998</b> , 3, d887-912  | 189 |
| 2201 | The steroid hormone 20-hydroxyecdysone enhances neurite growth of Drosophila mushroom body neurons isolated during metamorphosis. <b>1998</b> , 18, 8886-99                    | 88  |
| 2200 | Rho A regulates sustained smooth muscle contraction through cytoskeletal reorganization of HSP27. <b>1998</b> , 275, G1454-62  | 54  |
| 2199 | Myofibroblasts. I. Paracrine cells important in health and disease. <b>1999</b> , 277, C1-9  | 572 |
| 2198 | Regulation of the Thrombotic Potential of Atheroma. <b>1999</b> , 82, 736-741  | 28  |

|      |   |     |
|------|---|-----|
| 2197 | The neuronal architecture of <i>Xenopus</i> retinal ganglion cells is sculpted by rho-family GTPases in vivo. <b>1999</b> , 19, 8454-63   | 175 |
| 2196 | Filopodial adhesion does not predict growth cone steering events in vivo. <b>1999</b> , 19, 2589-600  | 30  |
| 2195 | Transcriptional repressor ERF is a Ras/mitogen-activated protein kinase target that regulates cellular proliferation. <b>1999</b> , 19, 4121-33   | 84  |
| 2194 | Myelin and collapsin-1 induce motor neuron growth cone collapse through different pathways: inhibition of collapse by opposing mutants of rac1. <b>1999</b> , 19, 1965-75               | 170 |
| 2193 | Rho controls actin cytoskeletal assembly in renal epithelial cells during ATP depletion and recovery. <b>1999</b> , 276, C1312-24   | 42  |
| 2192 | Inactivation of Rho signaling pathway promotes CNS axon regeneration. <b>1999</b> , 19, 7537-47   | 523 |
| 2191 | Signaling Through Platelet Integrin $\alpha$ IIb $\beta$ 3: Inside-out, Outside-in, and Sideways. <b>1999</b> , 82, 318-325   | 175 |
| 2190 | Glutamate induces rapid upregulation of astrocyte glutamate transport and cell-surface expression of GLAST. <b>1999</b> , 19, 10193-200   | 253 |
| 2189 | Citron, a Rho-target, interacts with PSD-95/SAP-90 at glutamatergic synapses in the thalamus. <b>1999</b> , 19, 109-18  | 89  |
| 2188 | Spontaneous Apoptosis in Lymphocytes From Patients With Wiskott-Aldrich Syndrome: Correlation of Accelerated Cell Death and Attenuated Bcl-2 Expression. <b>1999</b> , 94, 3872-3882    | 57  |
| 2187 | Regulation of p21rac Activation in Human Neutrophils. <b>1999</b> , 94, 1121-1130   | 70  |
| 2186 | Ras Proteins: Recent Advances and New Functions. <b>1999</b> , 94, 2971-2980  | 118 |
| 2185 | Isovariant Dynamics Expand and Buffer the Responses of Complex Systems: The Diverse Plant Actin Gene Family. <b>1999</b> , 11, 995  | 3   |
| 2184 | Fc receptor-mediated phagocytosis. <b>1999</b> , 149-191  | 4   |
| 2183 | Getting directions: axon guidance receptors find the way. <b>1999</b> , 1999, PE1   | 1   |
| 2182 | Intracellular mechanisms involved in dopamine-induced actin cytoskeleton organization and maintenance of a round phenotype in cultured rat lactotrope cells. <b>1999</b> , 140, 3467-77 | 8   |
| 2181 | Thyrotropin prevents apoptosis by promoting cell adhesion and cell cycle progression in FRTL-5 cells. <b>1999</b> , 140, 5962-70  | 18  |
| 2180 | Control of Pollen Tube Tip Growth by a Rop GTPase-Dependent Pathway That Leads to Tip-Localized Calcium Influx. <b>1999</b> , 11, 1731  | 1   |



|      |   |     |
|------|---|-----|
| 2179 | Biological and regulatory properties of Vav-3, a new member of the Vav family of oncoproteins. <b>1999</b> , 19, 7870-85  | 221 |
| 2178 | Signal transduction pathways controlling the switch between keratinocyte growth and differentiation. <b>1999</b> , 10, 442-57   | 90  |
| 2177 | Distinct effects of Rac1 on differentiation of primary avian myoblasts. <b>1999</b> , 10, 3137-50   | 49  |
| 2176 | Isovariant dynamics expand and buffer the responses of complex systems: the diverse plant actin gene family. <b>1999</b> , 11, 995-1006   | 124 |
| 2175 | Differential fMet-Leu-Phe- and platelet-activating factor-induced signaling toward Ral activation in primary human neutrophils. <b>1999</b> , 274, 21847-52                                       | 29  |
| 2174 | M-Ras/R-Ras3, a transforming ras protein regulated by Sos1, GRF1, and p120 Ras GTPase-activating protein, interacts with the putative Ras effector AF6. <b>1999</b> , 274, 23850-7                | 97  |
| 2173 | Identification of the C-terminal part of Bordetella dermonecrotic toxin as a transglutaminase for rho GTPases. <b>1999</b> , 274, 31875-81  | 58  |
| 2172 | Intracellular movement of green fluorescent protein-tagged phosphatidylinositol 3-kinase in response to growth factor receptor signaling. <b>1999</b> , 146, 869-80                               | 56  |
| 2171 | The COOH terminus of Rho-kinase negatively regulates rho-kinase activity. <b>1999</b> , 274, 32418-24   | 208 |
| 2170 | Control of pollen tube tip growth by a Rop GTPase-dependent pathway that leads to tip-localized calcium influx. <b>1999</b> , 11, 1731-42   | 393 |
| 2169 | Specific contributions of the small GTPases Rho, Rac, and Cdc42 to Dbl transformation. <b>1999</b> , 274, 23633-41  | 152 |
| 2168 | Requirement of p21-activated kinase (PAK) for Salmonella typhimurium-induced nuclear responses. <b>1999</b> , 189, 1479-88  | 44  |
| 2167 | How plants learn. <b>1999</b> , 96, 4216-8  | 50  |
| 2166 | Potential of cell migration by adhesion-dependent cooperative signals from the GTPase Rac and Raf kinase. <b>1999</b> , 274, 37855-61   | 43  |
| 2165 | Modulation of endocytic traffic in polarized Madin-Darby canine kidney cells by the small GTPase RhoA. <b>1999</b> , 10, 4369-84  | 57  |
| 2164 | The small GTPase RalA targets filamin to induce filopodia. <b>1999</b> , 96, 2122-8   | 376 |
| 2163 | The role of protein kinase C isozymes in bombesin-stimulated gastrin release from human antral gastrin cells. <b>1999</b> , 274, 22493-501  | 16  |
| 2162 | Effect of mechanical strain on gastric cellular migration and proliferation during mucosal healing: role of Rho dependent and Rac dependent cytoskeletal reorganisation. <b>1999</b> , 45, 508-15 | 23  |

|      |  |     |
|------|--|-----|
| 2161 | Cofilin phosphorylation and actin cytoskeletal dynamics regulated by rho- and Cdc42-activated LIM-kinase 2. <b>1999</b> , 147, 1519-32   | 306 |
| 2160 | Expression of macrophage MARCO receptor induces formation of dendritic plasma membrane processes. <b>1999</b> , 274, 10975-82  | 38  |
| 2159 | Laminin polymerization induces a receptor-cytoskeleton network. <b>1999</b> , 145, 619-31  | 253 |
| 2158 | Scar, a WASp-related protein, activates nucleation of actin filaments by the Arp2/3 complex. <b>1999</b> , 96, 3739-44   | 613 |
| 2157 | Actin stabilization by jasplakinolide enhances apoptosis induced by cytokine deprivation. <b>1999</b> , 274, 4259-65   | 114 |
| 2156 | Primary megakaryocytes reveal a role for transcription factor NF-E2 in integrin alpha IIb beta 3 signaling. <b>1999</b> , 147, 1419-30   | 81  |
| 2155 | The N-terminal domain of <i>Pseudomonas aeruginosa</i> exoenzyme S is a GTPase-activating protein for Rho GTPases. <b>1999</b> , 274, 36369-72                                   | 238 |
| 2154 | G protein beta gamma subunit-dependent Rac-guanine nucleotide exchange activity of Ras-GRF1/CDC25(Mm). <b>1999</b> , 96, 4826-31   | 79  |
| 2153 | Identification of the region of rho involved in substrate recognition by <i>Escherichia coli</i> cytotoxic necrotizing factor 1 (CNF1). <b>1999</b> , 274, 28999-9004            | 57  |
| 2152 | Identification of Grb4/Nckbeta, a src homology 2 and 3 domain-containing adapter protein having similar binding and biological properties to Nck. <b>1999</b> , 274, 5542-9      | 60  |
| 2151 | A role for p21-activated kinase in endothelial cell migration. <b>1999</b> , 147, 831-44   | 256 |
| 2150 | Molecular cloning and characterization of human trabeculin-alpha, a giant protein defining a new family of actin-binding proteins. <b>1999</b> , 274, 33522-30                   | 35  |
| 2149 | The small GTP-binding protein rho regulates cortical activities in cultured cells during division. <b>1999</b> , 144, 305-13   | 116 |
| 2148 | Localization of the PAK1-, WASP-, and IQGAP1-specifying regions of Cdc42. <b>1999</b> , 274, 29648-54  | 50  |
| 2147 | Regulation of cadherin function by Rho and Rac: modulation by junction maturation and cellular context. <b>1999</b> , 10, 9-22   | 231 |
| 2146 | Neosynthesis and activation of Rho by <i>Escherichia coli</i> cytotoxic necrotizing factor (CNF1) reverse cytopathic effects of ADP-ribosylated Rho. <b>1999</b> , 274, 27407-14 | 48  |
| 2145 | Phosphorylation of adducin by Rho-kinase plays a crucial role in cell motility. <b>1999</b> , 145, 347-61  | 256 |
| 2144 | Phosphorylation of myosin-binding subunit (MBS) of myosin phosphatase by Rho-kinase in vivo. <b>1999</b> , 147, 1023-38  | 479 |

|      |  |     |
|------|--|-----|
| 2143 | DE-Cadherin is required for intercellular motility during <i>Drosophila</i> oogenesis. <b>1999</b> , 144, 533-47   | 286 |
| 2142 | The GTP-binding protein Rho1p is required for cell cycle progression and polarization of the yeast cell. <b>1999</b> , 146, 373-87   | 50  |
| 2141 | Cell wall stress depolarizes cell growth via hyperactivation of RHO1. <b>1999</b> , 147, 163-74  | 242 |
| 2140 | PAKa, a putative PAK family member, is required for cytokinesis and the regulation of the cytoskeleton in <i>Dictyostelium discoideum</i> cells during chemotaxis. <b>1999</b> , 147, 559-76                                       | 136 |
| 2139 | Human ECT2 is an exchange factor for Rho GTPases, phosphorylated in G2/M phases, and involved in cytokinesis. <b>1999</b> , 147, 921-8   | 332 |
| 2138 | Microtubule dysfunction induced by paclitaxel initiates apoptosis through both c-Jun N-terminal kinase (JNK)-dependent and -independent pathways in ovarian cancer cells. <b>1999</b> , 274, 8208-16                               | 164 |
| 2137 | Structural features of LIM kinase that control effects on the actin cytoskeleton. <b>1999</b> , 274, 11352-61  | 67  |
| 2136 | Evidence for a calpeptin-sensitive protein-tyrosine phosphatase upstream of the small GTPase Rho. A novel role for the calpain inhibitor calpeptin in the inhibition of protein-tyrosine phosphatases. <b>1999</b> , 274, 14359-67 | 87  |
| 2135 | Splice variants of intersectin are components of the endocytic machinery in neurons and nonneuronal cells. <b>1999</b> , 274, 15671-7  | 151 |
| 2134 | Four human ras homologs differ in their abilities to activate Raf-1, induce transformation, and stimulate cell motility. <b>1999</b> , 274, 17164-70   | 216 |
| 2133 | Polarized distribution of endogenous Rac1 and RhoA at the cell surface. <b>1999</b> , 274, 21430-6   | 134 |
| 2132 | A built-in arginine finger triggers the self-stimulatory GTPase-activating activity of rho family GTPases. <b>1999</b> , 274, 2609-12  | 41  |
| 2131 | Dishevelled proteins lead to two signaling pathways. Regulation of LEF-1 and c-Jun N-terminal kinase in mammalian cells. <b>1999</b> , 274, 129-34   | 236 |
| 2130 | Effects of overexpression of PTP36, a putative protein tyrosine phosphatase, on cell adhesion, cell growth, and cytoskeletons in HeLa cells. <b>1999</b> , 274, 12905-9  | 33  |
| 2129 | Fission yeast alpha-glucan synthase Mok1 requires the actin cytoskeleton to localize the sites of growth and plays an essential role in cell morphogenesis downstream of protein kinase C function. <b>1999</b> , 144, 1173-86     | 126 |
| 2128 | Rac downregulates Rho activity: reciprocal balance between both GTPases determines cellular morphology and migratory behavior. <b>1999</b> , 147, 1009-22  | 733 |
| 2127 | Fission yeast Pob1p, which is homologous to budding yeast Boi proteins and exhibits subcellular localization close to actin patches, is essential for cell elongation and separation. <b>1999</b> , 10, 2745-57                    | 27  |
| 2126 | Activation of RhoA by lysophosphatidic acid and Galpha12/13 subunits in neuronal cells: induction of neurite retraction. <b>1999</b> , 10, 1851-7  | 268 |

|      |   |     |
|------|---|-----|
| 2125 | The actin cytoskeleton reorganization induced by Rac1 requires the production of superoxide. <b>1999</b> , 1, 29-43   | 72  |
| 2124 | Identification and characterization of potential effector molecules of the Ras-related GTPase Rap2. <b>1999</b> , 274, 8737-45  | 60  |
| 2123 | Identification of the stef gene that encodes a novel guanine nucleotide exchange factor specific for Rac1. <b>1999</b> , 274, 17837-44  | 93  |
| 2122 | Rac homologues and compartmentalized phosphatidylinositol 4, 5-bisphosphate act in a common pathway to regulate polar pollen tube growth. <b>1999</b> , 145, 317-30                           | 494 |
| 2121 | Monoglucosylation of RhoA at threonine 37 blocks cytosol-membrane cycling. <b>1999</b> , 274, 29050-6   | 80  |
| 2120 | 3-Hydroxy-3-methylglutaryl-CoA reductase inhibitors attenuate vascular smooth muscle proliferation by preventing rho GTPase-induced down-regulation of p27(Kip1). <b>1999</b> , 274, 21926-31 | 299 |
| 2119 | Opposite regulation of transepithelial electrical resistance and paracellular permeability by Rho in Madin-Darby canine kidney cells. <b>1999</b> , 274, 20982-8                              | 51  |
| 2118 | Biochemical analysis of SopE from Salmonella typhimurium, a highly efficient guanosine nucleotide exchange factor for RhoGTPases. <b>1999</b> , 274, 30501-9                                  | 76  |
| 2117 | Novel inositol polyphosphate 5-phosphatase localizes at membrane ruffles. <b>1999</b> , 274, 36790-5  | 46  |
| 2116 | Inhibitory phosphorylation site for Rho-associated kinase on smooth muscle myosin phosphatase. <b>1999</b> , 274, 37385-90  | 421 |
| 2115 | Volatile anesthetics block actin-based motility in dendritic spines. <b>1999</b> , 96, 10433-7  | 88  |
| 2114 | Balance between activities of Rho kinase and type 1 protein phosphatase modulates turnover of phosphorylation and dynamics of desmin/vimentin filaments. <b>1999</b> , 274, 34932-9           | 80  |
| 2113 | Activation of FP prostanoid receptor isoforms leads to Rho-mediated changes in cell morphology and in the cell cytoskeleton. <b>1999</b> , 274, 35944-9                                       | 86  |
| 2112 | A tyrosine-phosphorylated protein that binds to an important regulatory region on the cool family of p21-activated kinase-binding proteins. <b>1999</b> , 274, 22393-400                      | 178 |
| 2111 | The receptor tyrosine phosphatase CRYPalpha promotes intraretinal axon growth. <b>1999</b> , 147, 375-88  | 67  |
| 2110 | Characterization of rac and cdc42 activation in chemoattractant-stimulated human neutrophils using a novel assay for active GTPases. <b>1999</b> , 274, 13198-204                             | 651 |
| 2109 | Loop 6 of RhoA confers specificity for effector binding, stress fiber formation, and cellular transformation. <b>1999</b> , 274, 4551-60  | 33  |
| 2108 | RacF1, a novel member of the Rho protein family in Dictyostelium discoideum, associates transiently with cell contact areas, macropinosomes, and phagosomes. <b>1999</b> , 10, 1205-19        | 54  |

|      |  |     |
|------|--|-----|
| 2107 | A cytoskeletal localizing domain in the cyclase-associated protein, CAP/Srv2p, regulates access to a distant SH3-binding site. <b>1999</b> , 274, 19985-91   | 35  |
| 2106 | Rho-dependent regulation of cell spreading by the tetraspan membrane protein Gas3/PMP22. <b>1999</b> , 10, 2441-59   | 64  |
| 2105 | Receptor for advanced glycation end products (RAGE)-mediated neurite outgrowth and activation of NF-kappaB require the cytoplasmic domain of the receptor but different downstream signaling pathways. <b>1999</b> , 274, 19919-24 | 491 |
| 2104 | Growth cone guidance: first steps towards a deeper understanding. <b>1999</b> , 22, 351-88   | 370 |
| 2103 | Polymerizing microtubules activate site-directed F-actin assembly in nerve growth cones. <b>1999</b> , 10, 2309-27   | 75  |
| 2102 | Rho GTP-binding proteins as targets for microbial pathogens. <b>1999</b> , 22, 183-99  | 6   |
| 2101 | Activation of the Cdc42-associated tyrosine kinase-2 (ACK-2) by cell adhesion via integrin beta1. <b>1999</b> , 274, 8524-30   | 70  |
| 2100 | Regulated CD44 cleavage under the control of protein kinase C, calcium influx, and the Rho family of small G proteins. <b>1999</b> , 274, 25525-34   | 76  |
| 2099 | Phosphorylation of F-actin-associating G protein gamma12 subunit enhances fibroblast motility. <b>1999</b> , 274, 12124-8  | 13  |
| 2098 | Breakthroughs in molecular and cellular mechanisms underlying X-linked mental retardation. <b>1999</b> , 8, 1833-8   | 49  |
| 2097 | Distinct actions and cooperative roles of ROCK and mDia in Rho small G protein-induced reorganization of the actin cytoskeleton in Madin-Darby canine kidney cells. <b>1999</b> , 10, 2481-91                                      | 140 |
| 2096 | Rab5 induces Rac-independent lamellipodia formation and cell migration. <b>1999</b> , 10, 3239-50  | 71  |
| 2095 | Wiskott-Aldrich syndrome protein regulates podosomes in primary human macrophages. <b>1999</b> , 96, 9648-53   | 358 |
| 2094 | The cytotoxin YopT of Yersinia enterocolitica induces modification and cellular redistribution of the small GTP-binding protein RhoA. <b>1999</b> , 274, 29289-93  | 126 |
| 2093 | Phosphoinositide 3-kinase-dependent and -independent activation of the small GTPase Rac2 in human neutrophils. <b>1999</b> , 274, 18055-9  | 142 |
| 2092 | Proteins that regulate dynamic actin remodeling in response to membrane signaling minireview series. <b>1999</b> , 274, 32529-30   | 30  |
| 2091 | Tetratricopeptide repeat (TPR) motifs of p67(phox) participate in interaction with the small GTPase Rac and activation of the phagocyte NADPH oxidase. <b>1999</b> , 274, 25051-60   | 185 |
| 2090 | Regulation of actin polymerization by Arp2/3 complex and WASp/Scar proteins. <b>1999</b> , 274, 32531-4  | 200 |

|      |   |     |
|------|---|-----|
| 2089 | Association of frabin with the actin cytoskeleton is essential for microspike formation through activation of Cdc42 small G protein. <b>1999</b> , 274, 25197-200 | 54  |
| 2088 | The Dbl-related protein, Lfc, localizes to microtubules and mediates the activation of Rac signaling pathways in cells. <b>1999</b> , 274, 2279-85                | 133 |
| 2087 | Platelet microparticles: a wide-angle perspective. <b>1999</b> , 30, 111-42   | 249 |
| 2086 | Signalling to actin: the Cdc42-N-WASP-Arp2/3 connection. <b>1999</b> , 6, R235-40   | 59  |
| 2085 | Activation of moesin and adducin by Rho-kinase downstream of Rho. <b>1999</b> , 82, 139-47  | 30  |
| 2084 | The long-term cytoskeletal rearrangement induced by rabbit enteropathogenic Escherichia coli is Esp dependent but intimin independent. <b>1999</b> , 31, 19-30    | 26  |
| 2083 | Cooperation between mDia1 and ROCK in Rho-induced actin reorganization. <b>1999</b> , 1, 136-43   | 734 |
| 2082 | A new member of the IL-1 receptor family highly expressed in hippocampus and involved in X-linked mental retardation. <b>1999</b> , 23, 25-31                     | 208 |
| 2081 | Activation of LIM-kinase by Pak1 couples Rac/Cdc42 GTPase signalling to actin cytoskeletal dynamics. <b>1999</b> , 1, 253-9                                       | 832 |
| 2080 | The structural and mechanical complexity of cell-growth control. <b>1999</b> , 1, E131-8  | 610 |
| 2079 | Signalling through the high-affinity IgE receptor Fc epsilonRI. <b>1999</b> , 402, B24-30   | 571 |
| 2078 | Structure of Cdc42 in complex with the GTPase-binding domain of the 'Wiskott-Aldrich syndrome' protein. <b>1999</b> , 399, 379-83                                 | 289 |
| 2077 | Cytoskeletal tumor suppressors that block oncogenic RAS signaling. <b>1999</b> , 886, 48-57   | 19  |
| 2076 | Bacterial toxins inhibiting or activating small GTP-binding proteins. <b>1999</b> , 886, 83-90  | 48  |
| 2075 | SCH 51344, an inhibitor of RAS/RAC-mediated cell morphology pathway. <b>1999</b> , 886, 122-31  | 3   |
| 2074 | Construction of a cell-permeable CDC42 binding fragment of ACK that inhibits v-Ha-Ras transformation. <b>1999</b> , 886, 285-8                                    | 5   |
| 2073 | Salmonella strikes a balance. <b>1999</b> , 401, 218-9  | 4   |
| 2072 | Universal peekaboo. <b>1999</b> , 401, 219-221  | 1   |

|      |  |     |
|------|--|-----|
| 2071 | EPS8 and E3B1 transduce signals from Ras to Rac. <b>1999</b> , 401, 290-3  | 285 |
| 2070 | A salmonella protein antagonizes Rac-1 and Cdc42 to mediate host-cell recovery after bacterial invasion. <b>1999</b> , 401, 293-7  | 464 |
| 2069 | Deregulated cyclin E induces chromosome instability. <b>1999</b> , 401, 297-300  | 590 |
| 2068 | Cdc42 controls secretory and endocytic transport to the basolateral plasma membrane of MDCK cells. <b>1999</b> , 1, 8-13   | 312 |
| 2067 | Novel aspects of Ras proteins biology: regulation and implications. <b>1999</b> , 6, 722-8   | 33  |
| 2066 | Anti-apoptotic function of Rac in hematopoietic cells. <b>1999</b> , 18, 407-15  | 82  |
| 2065 | A new functional Ras antagonist inhibits human pancreatic tumor growth in nude mice. <b>1999</b> , 18, 2579-88   | 106 |
| 2064 | Small GTPase RhoD suppresses cell migration and cytokinesis. <b>1999</b> , 18, 2431-40   | 58  |
| 2063 | Specific accumulation of Rho-associated kinase at the cleavage furrow during cytokinesis: cleavage furrow-specific phosphorylation of intermediate filaments. <b>1999</b> , 18, 2783-8 | 108 |
| 2062 | NDF/hereregulin-induced cell cycle changes and apoptosis in breast tumour cells: role of PI3 kinase and p38 MAP kinase pathways. <b>1999</b> , 18, 3440-51                             | 84  |
| 2061 | Cellular functions of TC10, a Rho family GTPase: regulation of morphology, signal transduction and cell growth. <b>1999</b> , 18, 3831-45  | 82  |
| 2060 | Involvement of Cdc42 small G protein in cell-cell adhesion, migration and morphology of MDCK cells. <b>1999</b> , 18, 3996-4006  | 94  |
| 2059 | Tumour-associated E-cadherin mutations alter cellular morphology, decrease cellular adhesion and increase cellular motility. <b>1999</b> , 18, 4301-12                                 | 171 |
| 2058 | Role of RhoA activation in the growth and morphology of a murine prostate tumor cell line. <b>1999</b> , 18, 4120-30   | 85  |
| 2057 | Bcl-2 differentially targets K-, N-, and H-Ras to mitochondria in IL-2 supplemented or deprived cells: implications in prevention of apoptosis. <b>1999</b> , 18, 4930-9               | 60  |
| 2056 | Progressive impairment of kidneys and reproductive organs in mice lacking Rho GDIalpha. <b>1999</b> , 18, 5373-80  | 178 |
| 2055 | cis-Determinants in the cytoplasmic domain of CEACAM1 responsible for its tumor inhibitory function. <b>1999</b> , 18, 5563-72   | 72  |
| 2054 | Rac regulates the stability of the adherens junction and its components, thus affecting epithelial cell differentiation and transformation. <b>1999</b> , 18, 6434-42                  | 38  |

|      |  |      |
|------|--|------|
| 2053 | Src is required for cell migration and shape changes induced by fibroblast growth factor 1. <b>1999</b> , 18, 6700-6   | 75   |
| 2052 | Modeling metastasis in the mouse. <b>1999</b> , 18, 5334-9   | 30   |
| 2051 | Coendocytosis of cadherin and c-Met coupled to disruption of cell-cell adhesion in MDCK cells--regulation by Rho, Rac and Rab small G proteins. <b>1999</b> , 18, 6776-84                                    | 183  |
| 2050 | Expression of activated CDC42 induces T cell apoptosis in thymus and peripheral lymph organs via different pathways. <b>1999</b> , 18, 7966-74   | 28   |
| 2049 | Serine phosphorylation of paxillin by heregulin-beta1: role of p38 mitogen activated protein kinase. <b>1999</b> , 18, 7253-64   | 57   |
| 2048 | An FH domain-containing Bnr1p is a multifunctional protein interacting with a variety of cytoskeletal proteins in <i>Saccharomyces cerevisiae</i> . <b>1999</b> , 18, 7046-54                                | 47   |
| 2047 | The CDC42-specific inhibitor derived from ACK-1 blocks v-Ha-Ras-induced transformation. <b>1999</b> , 18, 7787-93  | 54   |
| 2046 | Rundown of somatodendritic N-methyl-D-aspartate (NMDA) receptor channels in rat hippocampal neurones: evidence for a role of the small GTPase RhoA. <b>1999</b> , 127, 1060-3                                | 25   |
| 2045 | Proteins of the Ras pathway as novel potential anticancer therapeutic targets. <b>1999</b> , 15, 345-58  | 6    |
| 2044 | IpaC induces actin polymerization and filopodia formation during <i>Shigella</i> entry into epithelial cells. <b>1999</b> , 18, 3249-62  | 210  |
| 2043 | Leukocyte polarization in cell migration and immune interactions. <b>1999</b> , 18, 501-11   | 476  |
| 2042 | The EH and SH3 domain Ese proteins regulate endocytosis by linking to dynamin and Eps15. <b>1999</b> , 18, 1159-71   | 185  |
| 2041 | Activity-dependent interaction of the intracellular domain of rat trkA with intermediate filament proteins, the beta-6 proteasomal subunit, Ras-GRF1, and the p162 subunit of eIF3. <b>1999</b> , 13, 141-58 | 36   |
| 2040 | The Bisphosphonate Odyssey. A Journey from Chemistry to the Clinic. <b>1999</b> , 144, 793-820   | 8    |
| 2039 | Mechanisms of phagocytosis in macrophages. <b>1999</b> , 17, 593-623   | 2028 |
| 2038 | The cell biology of the blood-brain barrier. <b>1999</b> , 22, 11-28   | 807  |
| 2037 | Regulation of cytokinesis. <b>1999</b> , 55, 108-20  | 19   |
| 2036 | Signal transduction in axon guidance. <b>1999</b> , 55, 1407-1415  | 4    |



|      |  |     |
|------|--|-----|
| 2035 | Roles of postsynaptic density-95/synapse-associated protein 90 and its interacting proteins in the organization of synapses. <b>1999</b> , 56, 461-72                            | 45  |
| 2034 | [Regulation of endothelial NO production by Rho GTPase]. <b>1999</b> , 94, 211-8   | 17  |
| 2033 | Protein tyrosine kinase-mediated pathways in G protein-coupled receptor signaling. <b>1999</b> , 30, 369-87  | 38  |
| 2032 | How to get to the right place at the right time: Rab/Ypt small GTPases and vesicle transport. <b>1999</b> , 209, 19-27   | 2   |
| 2031 | Involvement of long- and short-range signalling during early tendon development. <b>1999</b> , 200, 367-75   | 34  |
| 2030 | Function of the cytoskeleton in human neutrophils and methods for evaluation. <b>1999</b> , 232, 89-109  | 26  |
| 2029 | The evolution of new structures: clues from plant cytoskeletal genes. <b>1999</b> , 15, 278-84   | 97  |
| 2028 | Pattern formation in single cells. <b>1999</b> , 15, M60-M64   |     |
| 2027 | Brefeldin A (BFA) disrupts the organization of the microtubule and the actin cytoskeletons. <b>1999</b> , 78, 1-14   | 41  |
| 2026 | Sphingosine-1-phosphate: extracellular mediator or intracellular second messenger?. <b>1999</b> , 58, 201-7  | 141 |
| 2025 | Molecular consequences of human mast cell activation following immunoglobulin E-high-affinity immunoglobulin E receptor (IgE-FcepsilonRI) interaction. <b>1999</b> , 58, 1841-50 | 49  |
| 2024 | Regulation of antigen receptor function by protein tyrosine kinases. <b>1999</b> , 71, 373-92  | 5   |
| 2023 | Inhibition of GTP binding to Rac2 by peroxynitrite: potential role for tyrosine modification. <b>1999</b> , 26, 1321-31  | 9   |
| 2022 | Cytoskeleton and integrin-mediated adhesion signaling in human CD34+ hemopoietic progenitor cells. <b>1999</b> , 27, 579-86  | 45  |
| 2021 | Rho guanine dissociation inhibitors: pivotal molecules in cellular signalling. <b>1999</b> , 11, 545-54  | 419 |
| 2020 | Integrin signalling in neutrophils and macrophages. <b>1999</b> , 11, 621-35   | 183 |
| 2019 | Regulation of cadherin-mediated cell-cell adhesion by the Rho family GTPases. <b>1999</b> , 11, 591-6  | 166 |
| 2018 | Genetic analysis of cadherin function in animal morphogenesis. <b>1999</b> , 11, 540-8   | 83  |

|      |   |     |
|------|---|-----|
| 2017 | Control of cell migration during <i>Caenorhabditis elegans</i> development. <b>1999</b> , 11, 608-13  | 49  |
| 2016 | Cytokinesis: an emerging unified theory for eukaryotes?. <b>1999</b> , 11, 717-25   | 95  |
| 2015 | Functional design in the actin cytoskeleton. <b>1999</b> , 11, 54-60  | 145 |
| 2014 | Positive feedback interactions between microtubule and actin dynamics during cell motility. <b>1999</b> , 11, 61-7                                | 223 |
| 2013 | Effectors for the Rho GTPases. <b>1999</b> , 11, 95-102   | 285 |
| 2012 | In vitro approaches to study actin and microtubule dependent cell processes. <b>1999</b> , 11, 152-8  | 18  |
| 2011 | Bidirectional signaling between the cytoskeleton and integrins. <b>1999</b> , 11, 274-86  | 652 |
| 2010 | Signal transduction underlying growth cone guidance by diffusible factors. <b>1999</b> , 9, 355-63  | 402 |
| 2009 | Who does the hair cell's 'do? Rho GTPases and hair-bundle morphogenesis. <b>1999</b> , 9, 394-8   | 26  |
| 2008 | Rac and Rho. <b>1999</b> , 9, R156  | 7   |
| 2007 | Inducible recruitment of Cdc42 or WASP to a cell-surface receptor triggers actin polymerization and filopodium formation. <b>1999</b> , 9, 351-60 | 135 |
| 2006 | Wound-induced assembly and closure of an actomyosin purse string in <i>Xenopus</i> oocytes. <b>1999</b> , 9, 579-87                               | 162 |
| 2005 | Focal adhesions. <b>1999</b> , 9, R428  | 5   |
| 2004 | Interplay between Rac and Rho in the control of substrate contact dynamics. <b>1999</b> , 9, 640-8  | 520 |
| 2003 | Regulation of epidermal growth factor receptor traffic by the small GTPase rhoB. <b>1999</b> , 9, 955-8   | 175 |
| 2002 | Regulation of actin dynamics: The LIM kinase connection. <b>1999</b> , 9, R800-2  | 36  |
| 2001 | Activation of ERM proteins in vivo by Rho involves phosphatidylinositol 4-phosphate 5-kinase and not ROCK kinases. <b>1999</b> , 9, 1259-62       | 226 |
| 2000 | Functional interaction between the cytoplasmic leucine-zipper domain of HIV-1 gp41 and p115-RhoGEF. <b>1999</b> , 9, 1271-4                       | 52  |

|      |   |     |
|------|---|-----|
| 1999 | Waltzing with WASP. <b>1999</b> , 9, 15-9   | 56  |
| 1998 | Responding to attraction: chemotaxis and chemotropism in Dictyostelium and yeast. <b>1999</b> , 9, 20-7   | 95  |
| 1997 | Pattern formation in single cells. <b>1999</b> , 9, M60-M64   | 32  |
| 1996 | The N-termini of FAK and JAKs contain divergent band 4.1 domains. <b>1999</b> , 24, 54-7  | 147 |
| 1995 | p21-activated protein kinase: a crucial component of morphological signaling?. <b>1999</b> , 24, 350-5  | 214 |
| 1994 | Progress in protrusion: the tell-tale scar. <b>1999</b> , 24, 432-6   | 61  |
| 1993 | Chain-length determination mechanism of isoprenyl diphosphate synthases and implications for molecular evolution. <b>1999</b> , 24, 445-51  | 154 |
| 1992 | The PH superfold: a structural scaffold for multiple functions. <b>1999</b> , 24, 441-5   | 159 |
| 1991 | Pattern formation in single cells. <b>1999</b> , 24, M60-M64  | 1   |
| 1990 | Erratum. <b>1999</b> , 24, 436  |     |
| 1989 | Phosphoinositide-dependent activation of Rho A involves partial opening of the RhoA/Rho-GDI complex. <b>1999</b> , 262, 879-89  | 58  |
| 1988 | The pharmacology of bisphosphonates and new insights into their mechanisms of action. <b>1999</b> , 14 Suppl 2, 53-65   | 188 |
| 1987 | Effect of cyclin E Overexpression on lovastatin-induced G1 arrest and RhoA inactivation in NIH3T3 cells. <b>1999</b> , 74, 532-543  | 23  |
| 1986 | Cytoplasmic elongation and rupture in megakaryoblastic leukemia cells via activation of adhesion and motility by staurosporine on fibronectin-bound substratum. <b>1999</b> , 179, 179-92 | 6   |
| 1985 | Expression of receptor tyrosine phosphatases during development of the retinotectal projection of the chick. <b>1999</b> , 39, 81-96  | 45  |
| 1984 | Disruption of actin-myosin interactions results in the inhibition of focal adhesion assembly in Xenopus XR1 glial cells. <b>1999</b> , 26, 245-259  | 15  |
| 1983 | Rho GTPases control migration and polarization of adhesion molecules and cytoskeletal ERM components in T lymphocytes. <b>1999</b> , 29, 3609-20  | 200 |
| 1982 | Proteomic analysis of simulated occupational jet fuel exposure in the lung. <b>1999</b> , 20, 3659-69   | 36  |

|      |  |          |
|------|--|----------|
| 1981 | Rho-kinase (ROK) promotes CD44v(3,8-10)-ankyrin interaction and tumor cell migration in metastatic breast cancer cells. <b>1999</b> , 43, 269-87                       | 132      |
| 1980 | Shaping up for shipping out: PLCgamma signaling of morphology changes in EGF-stimulated fibroblast migration. <b>1999</b> , 44, 227-33                                 | 63       |
| 1979 | Zyxin and vinculin distribution at the cell-extracellular matrix attachment complex (CMAX) in corneal epithelial tissue are actin dependent. <b>1999</b> , 254, 336-47 | 5        |
| 1978 | ECM-stimulated actin bundle formation in embryonic corneal epithelia is tyrosine phosphorylation dependent. <b>1999</b> , 254, 348-59                                  | 18       |
| 1977 | Organization of point contacts in neuronal growth cones. <b>1999</b> , 55, 458-71  | 77       |
| 1976 | Callosal axon guidance defects in p35(-/-) mice. <b>1999</b> , 415, 218-29   | 62       |
| 1975 | New anti-actin drugs in the study of the organization and function of the actin cytoskeleton. <b>1999</b> , 47, 18-37  | 266      |
| 1974 | Visualising the actin cytoskeleton. <b>1999</b> , 47, 3-17   | 113      |
| 1973 | RHO GTPases in the control of cell morphology, cell polarity, and actin localization in fission yeast. <b>1999</b> , 47, 51-60   | 50       |
| 1972 | G proteins, phosphoinositides, and actin-cytoskeleton in the control of cancer growth. <b>1999</b> , 47, 61-6  | 22       |
| 1971 | Actin cytoskeleton organization in response to integrin-mediated adhesion. <b>1999</b> , 47, 67-78   | 137      |
| 1970 | Relationships between the actin cytoskeleton and cell volume regulation. <b>1999</b> , 47, 155-62  | 56       |
| 1969 | Vesicle transport: the role of actin filaments and myosin motors. <b>1999</b> , 47, 93-106   | 109      |
| 1968 | Brains and brawn: plectin as regulator and reinforcer of the cytoskeleton. <b>1999</b> , 21, 451-4   | 14       |
| 1967 | Proteins of the ADF/cofilin family: essential regulators of actin dynamics. <b>1999</b> , 15, 185-230  | 840      |
| 1966 | Rho GTPases control polarity, protrusion, and adhesion during cell movement. <b>1999</b> , 144, 1235-44  | 1214     |
| 1965 | Crosstalk between Rac and Rho. <i>Science</i> , <b>1999</b> , 283, 2028-9  | 33:3 56  |
| 1964 | Inhibition of myosin light chain kinase by p21-activated kinase. <i>Science</i> , <b>1999</b> , 283, 2083-5  | 33:3 507 |

|      |   |      |     |
|------|---|------|-----|
| 1963 | Cell migration--movin' on. <i>Science</i> , <b>1999</b> , 286, 1102-3   | 33:3 | 326 |
| 1962 | Regulation of Rho protein binding to membranes by rhoGDI: inhibition of releasing activity by physiological ionic conditions. <b>1999</b> , 77, 59-69                     |      | 11  |
| 1961 | The specification of dorsal cell fates in the vertebrate central nervous system. <b>1999</b> , 22, 261-94   |      | 427 |
| 1960 | Bisphosphonates: from the laboratory to the clinic and back again. <b>1999</b> , 25, 97-106   |      | 687 |
| 1959 | Rho-like GTPases: their role in epithelial cell-cell adhesion and invasion. <b>1999</b> , 35, 1302-8  |      | 35  |
| 1958 | Rho-like GTPases: their role in epithelial cell-cell adhesion and invasion. <b>1999</b> , 35, 1905-11   |      | 32  |
| 1957 | Effects of mono-ADP-ribosylation on cytoskeletal actin in chromaffin cells and their release of catecholamine. <b>1999</b> , 31, 601-11                                   |      | 3   |
| 1956 | Tec family of protein-tyrosine kinases: an overview of their structure and function. <b>1999</b> , 10, 267-80   |      | 106 |
| 1955 | Roles of the JNK signaling pathway in <i>Drosophila</i> morphogenesis. <b>1999</b> , 9, 466-72  |      | 134 |
| 1954 | Cell migration and axon growth cone guidance in <i>Caenorhabditis elegans</i> . <b>1999</b> , 9, 479-84   |      | 15  |
| 1953 | Deficiency of the hematopoietic cell-specific Rho family GTPase Rac2 is characterized by abnormalities in neutrophil function and host defense. <b>1999</b> , 10, 183-96  |      | 474 |
| 1952 | The structural basis of Rho effector recognition revealed by the crystal structure of human RhoA complexed with the effector domain of PKN/PRK1. <b>1999</b> , 4, 793-803 |      | 146 |
| 1951 | Activation of Vav by Nef induces cytoskeletal rearrangements and downstream effector functions. <b>1999</b> , 3, 729-39   |      | 204 |
| 1950 | Disclosing apoptosis in the CNS. <b>1999</b> , 20, 129-31   |      | 1   |
| 1949 | Potential drug targets: small GTPases that regulate leukocyte function. <b>1999</b> , 20, 365-70  |      | 35  |
| 1948 | Is the Ras-MAPK signalling pathway necessary for long-term memory formation?. <b>1999</b> , 22, 38-44   |      | 167 |
| 1947 | Cytoskeletal dynamics in dendritic spines: direct modulation by glutamate receptors?. <b>1999</b> , 22, 290-5   |      | 113 |
| 1946 | Cholesterylphosphoserine as inhibitor of cell adhesion and actin polymerization in human T cells. <b>1999</b> , 1451, 35-47   |      | 2   |

|      |   |      |      |
|------|---|------|------|
| 1945 | Differential expression of the small GTP-binding proteins RhoA, RhoB, Cdc42u and Cdc42b in developing rat neocortex. <b>1999</b> , 70, 9-17   |      | 35   |
| 1944 | Signaling from Rho to the actin cytoskeleton through protein kinases ROCK and LIM-kinase. <i>Science</i> , <b>1999</b> , 285, 895-8   | 33.3 | 1255 |
| 1943 | The role of long range, local and direct signalling molecules during chick feather bud development involving the BMPs, follistatin and the Eph receptor tyrosine kinase Eph-A4. <b>1999</b> , 86, 51-62 |      | 62   |
| 1942 | The Ras antagonist, farnesylthiosalicylic acid (FTS), inhibits experimentally-induced liver cirrhosis in rats. <b>1999</b> , 31, 1053-61  |      | 45   |
| 1941 | Rhopilin, a small GTPase Rho-binding protein, is abundantly expressed in the mouse testis and localized in the principal piece of the sperm tail. <b>1999</b> , 445, 9-13                               |      | 53   |
| 1940 | Cytoskeleton cross-talk during cell motility. <b>1999</b> , 452, 96-9   |      | 63   |
| 1939 | Inhibition of amylase secretion from differentiated AR4-2J pancreatic acinar cells by an actin cytoskeleton controlled protein tyrosine phosphatase activity. <b>1999</b> , 451, 269-74                 |      | 4    |
| 1938 | Plant cell growth and differentiation may involve GAP regulation of Rac activity. <b>1999</b> , 453, 341-5  |      | 26   |
| 1937 | Distinct roles of profilin in cell morphological changes: microspikes, membrane ruffles, stress fibers, and cytokinesis. <b>1999</b> , 457, 470-4   |      | 37   |
| 1936 | Association of the proto-oncogene product dbl with G protein betagamma subunits. <b>1999</b> , 459, 186-90  |      | 32   |
| 1935 | Rho-specific binding and guanine nucleotide exchange catalysis by KIAA0380, a dbl family member. <b>1999</b> , 459, 313-8   |      | 49   |
| 1934 | Lipid kinases are novel effectors of the GTPase Rac1. <b>1999</b> , 39, 299-312   |      | 17   |
| 1933 | The interaction between N-WASP and the Arp2/3 complex links Cdc42-dependent signals to actin assembly. <b>1999</b> , 97, 221-31   |      | 1105 |
| 1932 | Pak functions downstream of Dock to regulate photoreceptor axon guidance in <i>Drosophila</i> . <b>1999</b> , 97, 853-63  |      | 254  |
| 1931 | Vascular endothelial cell adherens junction assembly and morphogenesis induced by sphingosine-1-phosphate. <b>1999</b> , 99, 301-12   |      | 874  |
| 1930 | Activation of store-operated Ca <sup>2+</sup> current in <i>Xenopus</i> oocytes requires SNAP-25 but not a diffusible messenger. <b>1999</b> , 98, 475-85   |      | 246  |
| 1929 | Neuropilin-1 mediates collapsin-1/semaphorin III inhibition of endothelial cell motility: functional competition of collapsin-1 and vascular endothelial growth factor-165. <b>1999</b> , 146, 233-42   |      | 406  |
| 1928 | The Wiskott-Aldrich syndrome protein (WASP): roles in signaling and cytoskeletal organization. <b>1999</b> , 17, 905-29   |      | 197  |

|      |  |           |
|------|--|-----------|
| 1927 | Molecular mechanisms of neural crest formation. <b>1999</b> , 15, 81-112   | 193       |
| 1926 | Tumor invasion: role of growth factor-induced cell motility. <b>2000</b> , 78, 31-101  | 241       |
| 1925 | CCKA receptor activation stimulates p130(Cas) tyrosine phosphorylation, translocation, and association with Crk in rat pancreatic acinar cells. <b>1999</b> , 38, 1497-508   | 30        |
| 1924 | Regulation of the cytoskeleton and cell adhesion by the Rho family GTPases in mammalian cells. <b>1999</b> , 68, 459-86  | 873       |
| 1923 | Integrin signaling. <i>Science</i> , <b>1999</b> , 285, 1028-32  | 33-3 3762 |
| 1922 | Subcellular localization of RhoA and ezrin at membrane ruffles of human endothelial cells: differential role of collagen and fibronectin. <b>1999</b> , 249, 221-30  | 55        |
| 1921 | Regulation of the type II hemidesmosomal plaque assembly in intestinal epithelial cells. <b>1999</b> , 250, 298-312  | 22        |
| 1920 | Signaling to Rho GTPases. <b>1999</b> , 253, 166-79  | 351       |
| 1919 | A gene upregulated in the acoustically damaged chick basilar papilla encodes a novel WD40 repeat protein. <b>1999</b> , 56, 59-69  | 39        |
| 1918 | Laminin-2/integrin interactions enhance myelin membrane formation by oligodendrocytes. <b>1999</b> , 14, 199-212   | 163       |
| 1917 | Distribution of Rho-kinase in the bovine brain. <b>1999</b> , 263, 575-9   | 61        |
| 1916 | The <i>Caenorhabditis elegans</i> mel-11 myosin phosphatase regulatory subunit affects tissue contraction in the somatic gonad and the embryonic epidermis and genetically interacts with the Rac signaling pathway. <b>1999</b> , 209, 111-27 | 96        |
| 1915 | Parallels between wound repair and morphogenesis in the embryo. <b>1999</b> , 10, 395-404  | 20        |
| 1914 | Signal transduction pathway regulating prostaglandin EP3 receptor-induced neurite retraction: requirement for two different tyrosine kinases. <b>1999</b> , 340, 365-369   | 30        |
| 1913 | cDNA cloning and characterization of guinea-pig leukotriene B4 receptor. <b>1999</b> , 342, 79-85  | 31        |
| 1912 | Signal transduction pathway regulating prostaglandin EP3 receptor-induced neurite retraction: requirement for two different tyrosine kinases. <b>1999</b> , 340, 365   | 9         |
| 1911 | cDNA cloning and characterization of guinea-pig leukotriene B4 receptor. <b>1999</b> , 342, 79   | 13        |
| 1910 | Localization of p21-activated kinase 1 (PAK1) to pseudopodia, membrane ruffles, and phagocytic cups in activated human neutrophils. <b>1999</b> , 66, 521-7  | 81        |

|      |   |     |
|------|---|-----|
| 1909 | Integrin signal transduction in myeloid leukocytes. <b>1999</b> , 65, 313-20  | 108 |
| 1908 | Heterogeneity in macrophage phagocytosis. <b>1999</b> , 195-213   | 3   |
| 1907 | Signaling through rho gtpases in phagocytes. <b>1999</b> , 5, 215-231   | 1   |
| 1906 | Regulatory roles of phosphatidylinositol (4,5) bisphosphate in cell signaling, membrane traffic, and the cytoskeleton. <b>1999</b> , 5, 233-263                         |     |
| 1905 | The function of small GTPases in signaling by immune recognition and other leukocyte receptors. <b>1999</b> , 72, 1-101   | 15  |
| 1904 | Soft tissue and epithelial models. <b>1999</b> , 13, 57-66  | 19  |
| 1903 | ARF6 is required for growth factor- and rac-mediated membrane ruffling in macrophages at a stage distal to rac membrane targeting. <b>1999</b> , 19, 8158-68            | 101 |
| 1902 | Activation of the Lbc Rho exchange factor proto-oncogene by truncation of an extended C terminus that regulates transformation and targeting. <b>1999</b> , 19, 1334-45 | 66  |
| 1901 | The Borgs, a new family of Cdc42 and TC10 GTPase-interacting proteins. <b>1999</b> , 19, 6585-97  | 119 |
| 1900 | Bni1p regulates microtubule-dependent nuclear migration through the actin cytoskeleton in <i>Saccharomyces cerevisiae</i> . <b>1999</b> , 19, 8016-27                   | 42  |
| 1899 | Novel protein kinases Ark1p and Prk1p associate with and regulate the cortical actin cytoskeleton in budding yeast. <b>1999</b> , 144, 1203-18                          | 129 |
| 1898 | Genes regulating dendritic outgrowth, branching, and routing in <i>Drosophila</i> . <b>1999</b> , 13, 2549-61   | 267 |
| 1897 | Non-syndromic dominant DFNA1. <b>2000</b> , 56, 60-7  | 3   |
| 1896 | Stimulation of Rho GDI release by ERM proteins. <b>2000</b> , 325, 91-101   | 10  |
| 1895 | The cytoskeleton in lymphocyte signaling. <b>2000</b> , 75, 89-114  | 19  |
| 1894 | In vitro interaction of phosphoinositide-4-phosphate 5-kinases with Rac. <b>2000</b> , 325, 190-200   | 13  |
| 1893 | Rho GTPases and cell migration-fibroblast wound healing. <b>2000</b> , 325, 441-9   | 11  |
| 1892 | Rho GTPases and cell migration: measurement of macrophage chemotaxis. <b>2000</b> , 325, 449-62   | 12  |



|      |  |      |
|------|--|------|
| 1891 | Rho GTPases and macrophage phagocytosis. <b>2000</b> , 325, 462-73   | 13   |
| 1890 | Ras effector pathway activation by epidermal growth factor is inhibited in vivo by exoenzyme S ADP-ribosylation of Ras. <b>2000</b> , 347, 217   | 6    |
| 1889 | Rho GTPases and their effector proteins. <b>2000</b> , 348, 241  | 535  |
| 1888 | Tyrosine phosphorylation of the vascular endothelial-growth-factor receptor-2 (VEGFR-2) is modulated by Rho proteins. <b>2000</b> , 348, 273   | 19   |
| 1887 | Involvement of cytosolic phospholipase A2, and the subsequent release of arachidonic acid, in signalling by Rac for the generation of intracellular reactive oxygen species in Rat-2 fibroblasts. <b>2000</b> , 348, 525     | 19   |
| 1886 | Deactivation of neutrophil NADPH oxidase by actin-depolymerizing agents in a cell-free system. <b>2000</b> , 349, 369-75   | 15   |
| 1885 | Ras effector pathway activation by epidermal growth factor is inhibited in vivo by exoenzyme S ADP-ribosylation of Ras. <b>2000</b> , 347, 217-222   | 33   |
| 1884 | Involvement of cytosolic phospholipase A2, and the subsequent release of arachidonic acid, in signalling by Rac for the generation of intracellular reactive oxygen species in Rat-2 fibroblasts. <b>2000</b> , 348, 525-530 | 45   |
| 1883 | Tyrosine phosphorylation of the vascular endothelial-growth-factor receptor-2 (VEGFR-2) is modulated by Rho proteins. <b>2000</b> , 348, 273-280   | 48   |
| 1882 | Deactivation of neutrophil NADPH oxidase by actin-depolymerizing agents in a cell-free system. <b>2000</b> , 349, 369-375  | 30   |
| 1881 | Signalling mechanisms involved in volume regulation of intestinal epithelial cells. <b>2000</b> , 10, 289-96   | 33   |
| 1880 | Regulation of phagocytic leukocyte activities by C-reactive protein. <b>2000</b> , 67, 495-500   | 71   |
| 1879 | Rho GTPases and their effector proteins. <b>2000</b> , 348, 241-255  | 1522 |
| 1878 | Molecular cloning of a cDNA for a small GTP binding protein, BRho, from the embryo of <i>Bombyx mori</i> and its characterization after expression and purification. <b>2000</b> , 43, 165-72                                |      |
| 1877 | Mammalian homolog of the yeast cyclase associated protein, CAP/Srv2p, regulates actin filament assembly. <b>2000</b> , 45, 106-20  | 45   |
| 1876 | Genetic control of epithelial cell polarity: lessons from <i>Drosophila</i> . <b>2000</b> , 218, 52-67   | 83   |
| 1875 | Integration of epithelial patterning and morphogenesis in <i>Drosophila</i> ovarian follicle cells. <b>2000</b> , 218, 80-93   | 147  |
| 1874 | Regulation of intermediate filament organization during cytokinesis: possible roles of Rho-associated kinase. <b>2000</b> , 49, 173-82   | 22   |

|      |  |     |
|------|--|-----|
| 1873 | Protein adsorption and cell attachment to patterned surfaces. <b>2000</b> , 49, 200-10   | 123 |
| 1872 | Nitric oxide induces dose-dependent CA(2+) transients and causes temporal morphological hyperpolarization in human neutrophils. <b>2000</b> , 182, 402-13                                      | 16  |
| 1871 | Sequence variants of DLC1 in colorectal and ovarian tumours. <b>2000</b> , 15, 156-65  | 28  |
| 1870 | Glial inhibition of nerve regeneration in the mature mammalian CNS. <b>2000</b> , 29, 166-174  | 92  |
| 1869 | 9th international workshop on fragile X syndrome and X-linked mental retardation. <b>2000</b> , 94, 345-60   | 7   |
| 1868 | Rho proteins and the cellular mechanisms of mental retardation. <b>2000</b> , 94, 367-71   | 41  |
| 1867 | In search of the MRX genes. <b>2000</b> , 97, 221-7  | 16  |
| 1866 | Inhibition of myosin/moesin phosphatase by expression of the phosphoinhibitor protein CPI-17 alters microfilament organization and retards cell spreading. <b>2000</b> , 46, 222-34            | 39  |
| 1865 | In vivo function of class I myosins. <b>2000</b> , 47, 163-73  | 21  |
| 1864 | Skeletal-specific expression of Fgd1 during bone formation and skeletal defects in faciogenital dysplasia (FGDY; Aarskog syndrome). <b>2000</b> , 218, 573-86                                  | 59  |
| 1863 | Actin polymerization in response to different chemoattractants is reduced in granulocytes from chronic myeloid leukemia patients. <b>2000</b> , 42, 379-86                                     | 8   |
| 1862 | Shark cartilage extract interferes with cell adhesion and induces reorganization of focal adhesions in cultured endothelial cells. <b>2000</b> , 78, 417-428                                   | 13  |
| 1861 | Heat shock-induced actin polymerization, SAPK/JNK activation, and heat-shock protein expression are mediated by genistein-sensitive tyrosine kinase(s) in K562 cells. <b>2000</b> , 24, 447-57 | 15  |
| 1860 | The molecular genetics of chemotaxis: sensing and responding to chemoattractant gradients. <b>2000</b> , 22, 603-15  | 146 |
| 1859 | Redistribution of Bruton's tyrosine kinase by activation of phosphatidylinositol 3-kinase and Rho-family GTPases. <b>2000</b> , 30, 145-54   | 93  |
| 1858 | Rho regulates T cell receptor ITAM-induced lymphocyte spreading in an integrin-independent manner. <b>2000</b> , 30, 3403-10   | 36  |
| 1857 | Cdc42 stimulates neurite outgrowth and formation of growth cone filopodia and lamellipodia. <b>2000</b> , 43, 352-64   | 91  |
| 1856 | Regulating actin dynamics in neuronal growth cones by ADF/cofilin and Rho family GTPases. <b>2000</b> , 44, 126-144  | 154 |

|      |   |     |
|------|---|-----|
| 1855 | The receptor tyrosine phosphatase CRYBB1 affects growth cone morphology. <b>2000</b> , 44, 204-218  | 12  |
| 1854 | Mechanisms of growth cone guidance and motility in the developing grasshopper embryo. <b>2000</b> , 44, 271-280   | 20  |
| 1853 | Development and molecular organization of dendritic spines and their synapses. <b>2000</b> , 10, 512-26   | 52  |
| 1852 | Signaling between the actin cytoskeleton and the postsynaptic density of dendritic spines. <b>2000</b> , 10, 527-41   | 98  |
| 1851 | Intracellular signaling pathways that regulate dendritic spine morphogenesis. <b>2000</b> , 10, 582-6   | 79  |
| 1850 | IGFBP-5(201-218) stimulates Cdc42GAP aggregation and filopodia formation in migrating mesangial cells. <b>2000</b> , 57, 1991-2003  | 37  |
| 1849 | Bacterial signals and cell responses during Shigella entry into epithelial cells. <b>2000</b> , 2, 187-93   | 118 |
| 1848 | Imaging of dynamic changes of the actin cytoskeleton in microextensions of live NIH3T3 cells with a GFP fusion of the F-actin binding domain of moesin. <b>2000</b> , 1, 1  | 21  |
| 1847 | Importance of spatial activation of Cdc42 and rac small G proteins by frabin for microspike formation in MDCK cells. <b>2000</b> , 5, 583-91  | 15  |
| 1846 | Multiple downstream signalling pathways from ROCK, a target molecule of Rho small G protein, in reorganization of the actin cytoskeleton in Madin-Darby canine kidney cells. <b>2000</b> , 5, 929-936                                     | 20  |
| 1845 | Intracellular localization and processing of Pseudomonas aeruginosa ExoS in eukaryotic cells. <b>2000</b> , 37, 287-99  | 32  |
| 1844 | Maize ROP7 GTPase contains a unique, CaaX box-independent plasma membrane targeting signal. <b>2000</b> , 24, 79-90   | 61  |
| 1843 | Control of cellular phosphatidylinositol 4,5-bisphosphate levels by adhesion signals and rho GTPases in NIH 3T3 fibroblasts involvement of both phosphatidylinositol-4-phosphate 5-kinase and phospholipase C. <b>2000</b> , 267, 5237-46 | 23  |
| 1842 | Phosphoinositide 3-kinase: a key biochemical signal for cell migration in response to chemokines. <b>2000</b> , 177, 217-35   | 132 |
| 1841 | The tail domain of myosin M catalyses nucleotide exchange on Rac1 GTPases and can induce actin-driven surface protrusions. <b>2000</b> , 1, 399-410   | 27  |
| 1840 | Actin assembly at membranes controlled by ARF6. <b>2000</b> , 1, 892-903  | 116 |
| 1839 | Diversion of cytoskeletal processes by Shigella during invasion of epithelial cells. <b>2000</b> , 2, 813-9   | 26  |
| 1838 | Lipids on the move: phosphoinositide 3-kinases in leukocyte function. <b>2000</b> , 21, 260-4   | 116 |

|      |   |     |
|------|---|-----|
| 1837 | Building inhibitory synapses: exchange factors getting into the act? [ comment]. <b>2000</b> , 3, 5-6   | 8   |
| 1836 | Collybistin, a newly identified brain-specific GEF, induces submembrane clustering of gephyrin. <b>2000</b> , 3, 22-9   | 223 |
| 1835 | A new gene involved in X-linked mental retardation identified by analysis of an X;2 balanced translocation. <b>2000</b> , 24, 167-70  | 197 |
| 1834 | Rho GTPases regulate distinct aspects of dendritic arbor growth in <i>Xenopus</i> central neurons in vivo. <b>2000</b> , 3, 217-25  | 235 |
| 1833 | Control of pre-T cell proliferation and differentiation by the GTPase Rac-1. <b>2000</b> , 1, 348-52  | 78  |
| 1832 | Mutations in ARHGEF6, encoding a guanine nucleotide exchange factor for Rho GTPases, in patients with X-linked mental retardation. <b>2000</b> , 26, 247-50   | 306 |
| 1831 | Enhancement of proliferation and differentiation of erythroid progenitors by co-transduction of erythropoietin receptor and H-ras cDNAs into single CD34(3+) cord blood cells. <b>2000</b> , 26, 817-22 | 1   |
| 1830 | Motility and invasion are differentially modulated by Rho family GTPases. <b>2000</b> , 19, 580-91  | 136 |
| 1829 | Differential roles of JNK and Smad2 signaling pathways in the inhibition of c-Myc-induced cell death by TGF-beta. <b>2000</b> , 19, 1277-87   | 27  |
| 1828 | RAFTK/Pyk2 tyrosine kinase mediates the association of p190 RhoGAP with RasGAP and is involved in breast cancer cell invasion. <b>2000</b> , 19, 1318-28  | 88  |
| 1827 | Distinct involvement of cdc42 and RhoA GTPases in actin organization and cell shape in untransformed and Dbl oncogene transformed NIH3T3 cells. <b>2000</b> , 19, 1428-36                               | 23  |
| 1826 | Nonrandom 4p13 rearrangements of the RhoH/TTF gene, encoding a GTP-binding protein, in non-Hodgkin's lymphoma and multiple myeloma. <b>2000</b> , 19, 2023-32   | 102 |
| 1825 | Roles of two VEGF receptors, Flt-1 and KDR, in the signal transduction of VEGF effects in human vascular endothelial cells. <b>2000</b> , 19, 2138-46   | 241 |
| 1824 | Extinction of rac1 and Cdc42Hs signalling defines a novel p53-dependent apoptotic pathway. <b>2000</b> , 19, 2377-85  | 33  |
| 1823 | Rac1 in human breast cancer: overexpression, mutation analysis, and characterization of a new isoform, Rac1b. <b>2000</b> , 19, 3013-20   | 306 |
| 1822 | Two actions of frabin: direct activation of Cdc42 and indirect activation of Rac. <b>2000</b> , 19, 3050-8  | 56  |
| 1821 | Cyclic AMP activates Ras. <b>2000</b> , 19, 3609-15   | 54  |
| 1820 | Met receptor tyrosine kinase: enhanced signaling through adapter proteins. <b>2000</b> , 19, 5582-9   | 349 |

|      |  |     |
|------|--|-----|
| 1819 | Focal adhesion kinase: a regulator of focal adhesion dynamics and cell movement. <b>2000</b> , 19, 5606-13   | 563 |
| 1818 | p53 mediates bcl-2 phosphorylation and apoptosis via activation of the Cdc42/JNK1 pathway. <b>2000</b> , 19, 5259-69   | 82  |
| 1817 | Rho-kinase/ROCK is involved in cytokinesis through the phosphorylation of myosin light chain and not ezrin/radixin/moesin proteins at the cleavage furrow. <b>2000</b> , 19, 6059-64 | 184 |
| 1816 | Nuclear sequestration of the exchange factor Cdc24 by Far1 regulates cell polarity during yeast mating. <b>2000</b> , 2, 117-24  | 152 |
| 1815 | The ins and outs of cell-polarity decisions. <b>2000</b> , 2, E39-41   | 22  |
| 1814 | Cytochrome c release from mitochondria: all or nothing. <b>2000</b> , 2, E41-3   | 253 |
| 1813 | Autoinhibition and activation mechanisms of the Wiskott-Aldrich syndrome protein. <b>2000</b> , 404, 151-8   | 616 |
| 1812 | LET-413 is a basolateral protein required for the assembly of adherens junctions in <i>Caenorhabditis elegans</i> . <b>2000</b> , 2, 415-22  | 156 |
| 1811 | p95-APP1 links membrane transport to Rac-mediated reorganization of actin. <b>2000</b> , 2, 521-30   | 115 |
| 1810 | Molecular switches in metastasis. <b>2000</b> , 406, 466-7   | 50  |
| 1809 | Neurodegenerative stimuli induce persistent ADF/cofilin-actin rods that disrupt distal neurite function. <b>2000</b> , 2, 628-36   | 291 |
| 1808 | Chemical genetic analysis of the budding-yeast p21-activated kinase Cla4p. <b>2000</b> , 2, 677-85   | 123 |
| 1807 | Secrets of actin-based motility revealed by a bacterial pathogen. <b>2000</b> , 1, 110-9   | 144 |
| 1806 | Rho GTPases in neuronal morphogenesis. <b>2000</b> , 1, 173-80   | 825 |
| 1805 | The Rac1- and RhoG-specific GEF domain of Trio targets filamin to remodel cytoskeletal actin. <b>2000</b> , 2, 888-92  | 188 |
| 1804 | Paxillin and focal adhesion signalling. <b>2000</b> , 2, E231-6  | 628 |
| 1803 | Evidence for Rho protein regulation of renal tubular epithelial cell function. <b>2000</b> , 58, 1996-2006   | 14  |
| 1802 | Bacterial protein toxins targeting rho GTPases. <b>2000</b> , 188, 1-6   | 80  |

|      |   |     |
|------|---|-----|
| 1801 | Genetic control of branching morphogenesis during <i>Drosophila</i> tracheal development. <b>2000</b> , 12, 731-5   | 58  |
| 1800 | The p150-Spir protein provides a link between c-Jun N-terminal kinase function and actin reorganization. <b>2000</b> , 10, 345-8                                | 84  |
| 1799 | Genetic deletion of the Pten tumor suppressor gene promotes cell motility by activation of Rac1 and Cdc42 GTPases. <b>2000</b> , 10, 401-4                      | 259 |
| 1798 | A human homolog of the <i>C. elegans</i> polarity determinant Par-6 links Rac and Cdc42 to PKCzeta signaling and cell transformation. <b>2000</b> , 10, 697-707 | 242 |
| 1797 | Cdc42 is required for PIP(2)-induced actin polymerization and early development but not for cell viability. <b>2000</b> , 10, 758-65                            | 174 |
| 1796 | Signaling pathways and cell mechanics involved in wound closure by epithelial cell sheets. <b>2000</b> , 10, 831-8  | 246 |
| 1795 | Adhesion signaling: PAK meets Rac on solid ground. <b>2000</b> , 10, R535-7   | 28  |
| 1794 | Dendritic cells: new roles for Cdc42 and Rac in antigen uptake?. <b>2000</b> , 10, R739-41  | 63  |
| 1793 | The novel Rho-family GTPase rif regulates coordinated actin-based membrane rearrangements. <b>2000</b> , 10, 1387-90  | 87  |
| 1792 | Synaptojanin 2, a novel Rac1 effector that regulates clathrin-mediated endocytosis. <b>2000</b> , 10, 1383-6  | 124 |
| 1791 | The protein tyrosine phosphatase Shp-2 regulates RhoA activity. <b>2000</b> , 10, 1523-6  | 124 |
| 1790 | Actin dynamics: assembly and disassembly of actin networks. <b>2000</b> , 10, R891-5  | 97  |
| 1789 | Plant GTPases: the Rhos in bloom. <b>2000</b> , 10, 141-6   | 84  |
| 1788 | Fibroblast-collagen-matrix contraction: growth-factor signalling and mechanical loading. <b>2000</b> , 10, 362-5  | 342 |
| 1787 | Rho family GTPases: more than simple switches. <b>2000</b> , 10, 415-9  | 203 |
| 1786 | Making memories stick: cell-adhesion molecules in synaptic plasticity. <b>2000</b> , 10, 473-82   | 168 |
| 1785 | Leukocytes navigate by compass: roles of PI3Kgamma and its lipid products. <b>2000</b> , 10, 466-73   | 252 |
| 1784 | Pollen tube targeting and axon guidance: parallels in tip growth mechanisms. <b>2000</b> , 10, 517-24   | 126 |

|      |   |     |
|------|---|-----|
| 1783 | Regulation of endocytic traffic by rho family GTPases. <b>2000</b> , 10, 85-8   | 166 |
| 1782 | Signaling networks linking integrins and rho family GTPases. <b>2000</b> , 25, 388-91   | 255 |
| 1781 | Mapping the binding site for the GTP-binding protein Rac-1 on its inhibitor RhoGDI-1. <b>2000</b> , 8, 47-55  | 66  |
| 1780 | Direct vascular effects of HMG-CoA reductase inhibitors. <b>2000</b> , 10, 143-8  | 128 |
| 1779 | Identification of cadherin-11 down-regulation as a common response of astrocytoma cells to Transforming Growth Factor- $\beta$ . <b>2000</b> , 66, 165-172  | 10  |
| 1778 | Ca(2+)-independent activity of Ca(2+)/calmodulin-dependent protein kinase II involved in stimulation of neurite outgrowth in neuroblastoma cells. <b>2000</b> , 881, 165-75   | 17  |
| 1777 | The effect of a Rho kinase inhibitor Y-27632 on superoxide production, aggregation and adhesion in human polymorphonuclear leukocytes. <b>2000</b> , 403, 203-8   | 32  |
| 1776 | Protein geranylgeranylation is required for osteoclast formation, function, and survival: inhibition by bisphosphonates and GGTI-298. <b>2000</b> , 15, 1467-76   | 283 |
| 1775 | Localization of AtROP4 and AtROP6 and interaction with the guanine nucleotide dissociation inhibitor AtRhoGDI1 from Arabidopsis. <b>2000</b> , 42, 515-30   | 73  |
| 1774 | Genes that regulate metastasis and angiogenesis. <b>2000</b> , 50, 71-87  | 66  |
| 1773 | The cytoskeleton and related proteins in the human failing heart. <b>2000</b> , 5, 271-80   | 109 |
| 1772 | While E1A can facilitate epithelial cell transformation by several dominant oncogenes, the C-terminus seems only to regulate rac and cdc42 function, but in both epithelial and fibroblastic cells. <b>2000</b> , 269, 404-19 | 15  |
| 1771 | Trypanosoma cruzi: cloning and characterization of a RAB7 gene. <b>2000</b> , 96, 23-31   | 16  |
| 1770 | Signaling from Ras to Rac and beyond: not just a matter of GEFs. <b>2000</b> , 19, 2393-8   | 172 |
| 1769 | Activation of rho through a cross-link with polyamines catalyzed by Bordetella dermonecrotizing toxin. <b>2000</b> , 19, 521-30   | 99  |
| 1768 | Adhesion to the extracellular matrix regulates the coupling of the small GTPase Rac to its effector PAK. <b>2000</b> , 19, 2008-14  | 377 |
| 1767 | Rho GTPase signaling in inflammation and transformation. <b>2000</b> , 21, 103-9  | 24  |
| 1766 | Atherosclerosis and diabetes: the RAGE connection. <b>2000</b> , 2, 430-6   | 155 |

|      |   |     |
|------|---|-----|
| 1765 | Sphingolipid receptor signaling and function in human bladder carcinoma cells: inhibition of LPA- but enhancement of thrombin-stimulated cell motility. <b>2000</b> , 361, 1-11 | 14  |
| 1764 | Role of actin cytoskeleton in regulation of ion transport: examples from epithelial cells. <b>2000</b> , 178, 73-87   | 32  |
| 1763 | Ras proteins in the control of the cell cycle and cell differentiation. <b>2000</b> , 57, 1613-36   | 138 |
| 1762 | The invasion-associated type III secretion system of <i>Salmonella typhimurium</i> : common and unique features. <b>2000</b> , 57, 1033-49                                      | 10  |
| 1761 | Immunolocalization of two hydrogenosomal enzymes of <i>Trichomonas vaginalis</i> . <b>2000</b> , 86, 30-5   | 23  |
| 1760 | In vivo pollen tube cell of <i>Arabidopsis thaliana</i> L. Tube cell cytoplasm and wall. <b>2000</b> , 214, 45-56   | 43  |
| 1759 | Disruption of epithelial tight junctions is prevented by cyclic nucleotide-dependent protein kinase inhibitors. <b>2000</b> , 113, 349-61                                       | 44  |
| 1758 | Sphingosine-1-phosphate and lysophosphatidic acid trigger invasion of primitive hematopoietic cells into stromal cell layers. <b>2000</b> , 96, 139-144                         | 55  |
| 1757 | Integrin-associated protein/CD47 regulates motile activity in human B-cell lines through CDC42. <b>2000</b> , 96, 234-241   | 32  |
| 1756 | Myosin II-independent cytokinesis in <i>Dictyostelium</i> : its mechanism and implications. <b>2000</b> , 25, 1-10  | 42  |
| 1755 | Rapid dendritic remodeling in the developing retina: dependence on neurotransmission and reciprocal regulation by Rac and Rho. <b>2000</b> , 20, 5024-36                        | 210 |
| 1754 | From the ECM to the cytoskeleton and back: how integrins orchestrate T cell action. <b>2000</b> , 7, 155-70   | 11  |
| 1753 | Regulation of the epithelial Na <sup>(+)</sup> /H <sup>(+)</sup> exchanger isoform by the cytoskeleton. <b>2000</b> , 10, 265-72  | 53  |
| 1752 | Structure, function, and control of phosphoinositide-specific phospholipase C. <b>2000</b> , 80, 1291-335   | 822 |
| 1751 | Muscarinic receptor activation promotes the membrane association of tubulin for the regulation of Gq-mediated phospholipase C $\beta$ (1) signaling. <b>2000</b> , 20, 2774-82  | 43  |
| 1750 | short stop is allelic to kakapo, and encodes rod-like cytoskeletal-associated proteins required for axon extension. <b>2000</b> , 20, 1096-108                                  | 96  |
| 1749 | Regulation of somatodendritic GABA <sub>A</sub> receptor channels in rat hippocampal neurons: evidence for a role of the small GTPase Rac1. <b>2000</b> , 20, 6743-51           | 50  |
| 1748 | Impairment of NF- $\kappa$ B activation and modulation of gene expression by calpastatin. <b>2000</b> , 279, C709-16  | 45  |



|      |  |     |
|------|--|-----|
| 1747 | Requirement of cortical actin organization for bombesin, endothelin, and EGF receptor internalization. <b>2000</b> , 279, C2019-27   | 20  |
| 1746 | Regulation and function of p38 protein kinase in isolated canine gastric parietal cells. <b>2000</b> , 278, G24-31   | 17  |
| 1745 | P2Y(1), P2Y(2), P2Y(4), and P2Y(6) receptors are coupled to Rho and Rho kinase activation in vascular myocytes. <b>2000</b> , 278, H1751-61  | 89  |
| 1744 | Edg-1, the G protein-coupled receptor for sphingosine-1-phosphate, is essential for vascular maturation. <b>2000</b> , 106, 951-61   | 904 |
| 1743 | The mechanisms of aquaporin control in the renal collecting duct. <b>2000</b> , 141, 33-95   | 76  |
| 1742 | Co-localization of Rac1 and E-cadherin in human epidermal keratinocytes. <b>2000</b> , 7, 465-76   | 26  |
| 1741 | Vav2 activates Rac1, Cdc42, and RhoA downstream from growth factor receptors but not beta1 integrins. <b>2000</b> , 20, 7160-9   | 174 |
| 1740 | The trio guanine nucleotide exchange factor is a RhoA target. Binding of RhoA to the trio immunoglobulin-like domain. <b>2000</b> , 275, 36116-23  | 30  |
| 1739 | Epidermal growth factor-mediated caveolin recruitment to early endosomes and MAPK activation. Role of cholesterol and actin cytoskeleton. <b>2000</b> , 275, 30566-72  | 45  |
| 1738 | Nckbeta adapter regulates actin polymerization in NIH 3T3 fibroblasts in response to platelet-derived growth factor bb. <b>2000</b> , 20, 7867-80  | 78  |
| 1737 | N-Formyl peptide receptor ligation induces rac-dependent actin reorganization through Gbeta gamma subunits and class Ia phosphoinositide 3-kinases. <b>2000</b> , 275, 26225-32                                    | 22  |
| 1736 | Identification of a gene at 11q23 encoding a guanine nucleotide exchange factor: evidence for its fusion with MLL in acute myeloid leukemia. <b>2000</b> , 97, 2145-50   | 197 |
| 1735 | Nadrin, a novel neuron-specific GTPase-activating protein involved in regulated exocytosis. <b>2000</b> , 275, 36885-91  | 51  |
| 1734 | Induction of rac-guanine nucleotide exchange activity of Ras-GRF1/CDC25(Mm) following phosphorylation by the nonreceptor tyrosine kinase Src. <b>2000</b> , 275, 5441-6  | 59  |
| 1733 | Agrin-induced acetylcholine receptor clustering is mediated by the small guanosine triphosphatases Rac and Cdc42. <b>2000</b> , 150, 205-12  | 127 |
| 1732 | Unique in vivo associations with SmgGDS and RhoGDI and different guanine nucleotide exchange activities exhibited by RhoA, dominant negative RhoA(Asn-19), and activated RhoA(Val-14). <b>2000</b> , 275, 6699-702 | 26  |
| 1731 | Rho-associated kinase ROCK activates LIM-kinase 1 by phosphorylation at threonine 508 within the activation loop. <b>2000</b> , 275, 3577-82   | 390 |
| 1730 | Evidence for a novel Cdc42GAP domain at the carboxyl terminus of BNIP-2. <b>2000</b> , 275, 14415-22   | 31  |

|      |  |     |
|------|--|-----|
| 1729 | Induced expression of Rnd3 is associated with transformation of polarized epithelial cells by the Raf-MEK-extracellular signal-regulated kinase pathway. <b>2000</b> , 20, 9364-75               | 89  |
| 1728 | Ras oncoprotein induces CD44 cleavage through phosphoinositide 3-OH kinase and the rho family of small G proteins. <b>2000</b> , 275, 29628-35   | 46  |
| 1727 | Cyclic AMP blocks bacterial lipopolysaccharide-induced myosin light chain phosphorylation in endothelial cells through inhibition of Rho/Rho kinase signaling. <b>2000</b> , 164, 6543-9         | 146 |
| 1726 | Modulation of HIV-1 replication by a novel RhoA effector activity. <b>2000</b> , 164, 5369-74  | 33  |
| 1725 | The semaphorin receptor plexin-B1 specifically interacts with active Rac in a ligand-dependent manner. <b>2000</b> , 97, 12457-62  | 149 |
| 1724 | Suppression of endothelial nitric oxide production after withdrawal of statin treatment is mediated by negative feedback regulation of rho GTPase gene transcription. <b>2000</b> , 102, 3104-10 | 231 |
| 1723 | Two pathways through Cdc42 couple the N-formyl receptor to actin nucleation in permeabilized human neutrophils. <b>2000</b> , 150, 785-96  | 103 |
| 1722 | Mechanism of N-WASP activation by CDC42 and phosphatidylinositol 4, 5-bisphosphate. <b>2000</b> , 150, 1299-310  | 508 |
| 1721 | Striking a balance: modulation of the actin cytoskeleton by Salmonella. <b>2000</b> , 97, 8754-61  | 211 |
| 1720 | Potentialiation of Rho-A-mediated lysophosphatidic acid activity by hyperinsulinemia. <b>2000</b> , 275, 31792-7   | 34  |
| 1719 | G protein betagamma subunits induce stress fiber formation and focal adhesion assembly in a Rho-dependent manner in HeLa cells. <b>2000</b> , 275, 2098-102                                      | 22  |
| 1718 | Essential role of neural Wiskott-Aldrich syndrome protein in neurite extension in PC12 cells and rat hippocampal primary culture cells. <b>2000</b> , 275, 11987-92                              | 72  |
| 1717 | Cell vacuolation induced by the VacA cytotoxin of Helicobacter pylori is regulated by the Rac1 GTPase. <b>2000</b> , 275, 14009-12   | 55  |
| 1716 | Rho family proteins modulate rapid apoptosis induced by cytotoxic T lymphocytes and Fas. <b>2000</b> , 275, 9725-33  | 203 |
| 1715 | Proline- and alanine-rich Ste20-related kinase associates with F-actin and translocates from the cytosol to cytoskeleton upon cellular stresses. <b>2000</b> , 275, 9157-62                      | 36  |
| 1714 | Cdc42 and Rac stimulate exocytosis of secretory granules by activating the IP(3)/calcium pathway in RBL-2H3 mast cells. <b>2000</b> , 148, 481-94  | 124 |
| 1713 | Translocation of the Rac1 guanine nucleotide exchange factor Tiam1 induced by platelet-derived growth factor and lysophosphatidic acid. <b>2000</b> , 275, 9742-8                                | 81  |
| 1712 | Differential effect of Rac and Cdc42 on p38 kinase activity and cell cycle progression of nonadherent primary mouse fibroblasts. <b>2000</b> , 275, 5911-7                                       | 43  |

|      |   |     |
|------|---|-----|
| 1711 | Creatine kinase, an ATP-generating enzyme, is required for thrombin receptor signaling to the cytoskeleton. <b>2000</b> , 97, 12062-7   | 68  |
| 1710 | The small GTPases Ras, Rac, and Cdc42 transcriptionally regulate expression of human fibroblast growth factor 1. <b>2000</b> , 275, 30432-8   | 17  |
| 1709 | Stimulation of phosphatidylinositol-4-phosphate 5-kinase by Rho-kinase. <b>2000</b> , 275, 10168-74   | 87  |
| 1708 | Human neutrophil immunodeficiency syndrome is associated with an inhibitory Rac2 mutation. <b>2000</b> , 97, 4654-9   | 375 |
| 1707 | Signaling of hepatocyte growth factor/scatter factor (HGF) to the small GTPase Rap1 via the large docking protein Gab1 and the adapter protein CRKL. <b>2000</b> , 275, 10772-8   | 110 |
| 1706 | Regulation of Xenopus p21-activated kinase (X-PAK2) by Cdc42 and maturation-promoting factor controls Xenopus oocyte maturation. <b>2000</b> , 275, 2367-75   | 33  |
| 1705 | The role of Mg <sup>2+</sup> cofactor in the guanine nucleotide exchange and GTP hydrolysis reactions of Rho family GTP-binding proteins. <b>2000</b> , 275, 25299-307  | 121 |
| 1704 | Hyperinsulinemia enhances transcriptional activity of nuclear factor-kappaB induced by angiotensin II, hyperglycemia, and advanced glycosylation end products in vascular smooth muscle cells. <b>2000</b> , 87, 746-52             | 103 |
| 1703 | Enteric Toxins from Bacteria Colonizing Human Gut. <b>2000</b> , 12, 194-208  | 1   |
| 1702 | The C-terminal polylysine region and methylation of K-Ras are critical for the interaction between K-Ras and microtubules. <b>2000</b> , 275, 41251-7   | 69  |
| 1701 | A rac homolog is required for induction of hyphal growth in the dimorphic yeast <i>Yarrowia lipolytica</i> . <b>2000</b> , 182, 2376-86   | 54  |
| 1700 | Role of RhoA and Rho kinase in lysophosphatidic acid-induced endothelial barrier dysfunction. <b>2000</b> , 20, E127-33   | 136 |
| 1699 | A new paxillin-binding protein, PAG3/Papalpha/KIAA0400, bearing an ADP-ribosylation factor GTPase-activating protein activity, is involved in paxillin recruitment to focal adhesions and cell migration. <b>2000</b> , 11, 1315-27 | 105 |
| 1698 | Gic2p may link activated Cdc42p to components involved in actin polarization, including Bni1p and Bud6p (Aip3p). <b>2000</b> , 20, 6244-58  | 68  |
| 1697 | A deletion encompassing Zic3 in bent tail, a mouse model for X-linked neural tube defects. <b>2000</b> , 9, 1615-22   | 55  |
| 1696 | Enhanced transformation by a plasma membrane-associated met oncoprotein: activation of a phosphoinositide 3'-kinase-dependent autocrine loop involving hyaluronic acid and CD44. <b>2000</b> , 20, 3482-96                          | 48  |
| 1695 | Regulation of microfilament reorganization and invasiveness of breast cancer cells by kinase dead p21-activated kinase-1. <b>2000</b> , 275, 12041-50   | 143 |
| 1694 | Rho GTPases mediate the regulation of cochlear outer hair cell motility by acetylcholine. <b>2000</b> , 275, 28000-5  | 52  |

|      |   |     |
|------|---|-----|
| 1693 | The hepatocyte growth factor/Met pathway in development, tumorigenesis, and B-cell differentiation. <b>2000</b> , 79, 39-90   | 81  |
| 1692 | To move or not: how a cell responds (Review). <b>2000</b> , 5, 575-81   | 16  |
| 1691 | The TITAN5 Gene of Arabidopsis Encodes a Protein Related to the ADP Ribosylation Factor Family of GTP Binding Proteins. <b>2000</b> , 12, 1379  |     |
| 1690 | Differentiation of granulosa cell line: follicle-stimulating hormone induces formation of lamellipodia and filopodia via the adenylyl cyclase/cyclic adenosine monophosphate signal. <b>2000</b> , 141, 3461-70 | 20  |
| 1689 | Regulation of cyclin D(1) expression and DNA synthesis by phosphatidylinositol 3-kinase in airway smooth muscle cells. <b>2000</b> , 23, 436-43   | 57  |
| 1688 | Regulation and expression of metazoan unconventional myosins. <b>2000</b> , 200, 197-304  | 29  |
| 1687 | Evolutionary origin of eukaryotic cells. <b>2000</b> , 24, 59-66  | 2   |
| 1686 | Integrins and actin filaments: reciprocal regulation of cell adhesion and signaling. <b>2000</b> , 275, 22607-10  | 353 |
| 1685 | Sphingosine 1-phosphate-induced cell proliferation, survival, and related signaling events mediated by G protein-coupled receptors Edg3 and Edg5. <b>2000</b> , 275, 288-96                                     | 152 |
| 1684 | Atorvastatin upregulates type III nitric oxide synthase in thrombocytes, decreases platelet activation, and protects from cerebral ischemia in normocholesterolemic mice. <b>2000</b> , 31, 2442-9              | 310 |
| 1683 | Manipulation of Macrophage Activities Using Liposomes. <b>2000</b> , 10, 359-389  | 1   |
| 1682 | Cyclin-dependent kinase-5 (CDK5) and amyotrophic lateral sclerosis. <b>2000</b> , 1, 319-27   | 23  |
| 1681 | Cytotoxic necrotizing factor type 1 of uropathogenic Escherichia coli kills cultured human uroepithelial 5637 cells by an apoptotic mechanism. <b>2000</b> , 68, 5869-80  | 92  |
| 1680 | Nogo-A, a potent inhibitor of neurite outgrowth and regeneration. <b>2000</b> , 381, 407-19   | 122 |
| 1679 | Identification of novel, evolutionarily conserved Cdc42p-interacting proteins and of redundant pathways linking Cdc24p and Cdc42p to actin polarization in yeast. <b>2000</b> , 11, 773-93                      | 81  |
| 1678 | Critical activities of Rac1 and Cdc42Hs in skeletal myogenesis: antagonistic effects of JNK and p38 pathways. <b>2000</b> , 11, 2513-28   | 95  |
| 1677 | Ephrin-A5 induces collapse of growth cones by activating Rho and Rho kinase. <b>2000</b> , 149, 263-70  | 349 |
| 1676 | Small GTPase RhoG is a key regulator for neurite outgrowth in PC12 cells. <b>2000</b> , 20, 7378-87   | 125 |

|      |  |     |
|------|--|-----|
| 1675 | Inhibition of calcium release-activated calcium current by Rac/Cdc42-inactivating clostridial cytotoxins in RBL cells. <b>2000</b> , 275, 18732-8  | 28  |
| 1674 | Activation of cdc42, rac, PAK, and rho-kinase in response to hepatocyte growth factor differentially regulates epithelial cell colony spreading and dissociation. <b>2000</b> , 11, 1709-25  | 242 |
| 1673 | Vav3 mediates receptor protein tyrosine kinase signaling, regulates GTPase activity, modulates cell morphology, and induces cell transformation. <b>2000</b> , 20, 9212-24   | 120 |
| 1672 | A Rho-related GTPase is involved in Ca(2+)-dependent neurotransmitter exocytosis. <b>2000</b> , 275, 7764-70   | 84  |
| 1671 | Gene 33/Mig-6, a transcriptionally inducible adapter protein that binds GTP-Cdc42 and activates SAPK/JNK. A potential marker transcript for chronic pathologic conditions, such as diabetic nephropathy. Possible role in the response to persistent stress. <b>2000</b> , 275, 17838-47 | 107 |
| 1670 | Phosphorylation of collapsin response mediator protein-2 by Rho-kinase. Evidence for two separate signaling pathways for growth cone collapse. <b>2000</b> , 275, 23973-80   | 272 |
| 1669 | An isoform of kalirin, a brain-specific GDP/GTP exchange factor, is enriched in the postsynaptic density fraction. <b>2000</b> , 275, 6395-403   | 109 |
| 1668 | Dynamic regulation of activated leukocyte cell adhesion molecule-mediated homotypic cell adhesion through the actin cytoskeleton. <b>2000</b> , 11, 2057-68  | 67  |
| 1667 | Involvement of an SHP-2-Rho small G protein pathway in hepatocyte growth factor/scatter factor-induced cell scattering. <b>2000</b> , 11, 2565-75  | 111 |
| 1666 | Oncogenic Ras downregulates Rac activity, which leads to increased Rho activity and epithelial-mesenchymal transition. <b>2000</b> , 149, 775-82   | 253 |
| 1665 | Ajuba, a cytosolic LIM protein, shuttles into the nucleus and affects embryonal cell proliferation and fate decisions. <b>2000</b> , 11, 3299-313  | 109 |
| 1664 | Rho GTPases. Integrating integrin signaling. <b>2000</b> , 150, F107-9   | 80  |
| 1663 | Conditional expression of a truncated fragment of nonmuscle myosin II-A alters cell shape but not cytokinesis in HeLa cells. <b>2000</b> , 11, 3617-27   | 148 |
| 1662 | The SH3 domain directs acto-myosin-dependent targeting of v-Src to focal adhesions via phosphatidylinositol 3-kinase. <b>2000</b> , 20, 6518-36  | 93  |
| 1661 | Characterization of the arabidopsis formin-like protein AFH1 and its interacting protein. <b>2000</b> , 41, 617-26   | 71  |
| 1660 | Cdc42-induced activation of the mixed-lineage kinase SPRK in vivo. Requirement of the Cdc42/Rac interactive binding motif and changes in phosphorylation. <b>2000</b> , 275, 14231-41  | 68  |
| 1659 | Two tandem verprolin homology domains are necessary for a strong activation of Arp2/3 complex-induced actin polymerization and induction of microspike formation by N-WASP. <b>2000</b> , 97, 12631-6  | 80  |
| 1658 | Selective alterations in biosynthetic and endocytic protein traffic in Madin-Darby canine kidney epithelial cells expressing mutants of the small GTPase Rac1. <b>2000</b> , 11, 287-304   | 59  |

|      |  |     |
|------|--|-----|
| 1657 | Targeting Rho in cardiovascular disease. <b>2000</b> , 87, 526-8   | 151 |
| 1656 | A protein kinase from neutrophils that specifically recognizes Ser-3 in cofilin. <b>2000</b> , 275, 2869-76  | 19  |
| 1655 | Temporal and spatial distribution of activated Pak1 in fibroblasts. <b>2000</b> , 151, 1449-58   | 139 |
| 1654 | Role of Rac in controlling the actin cytoskeleton and chemotaxis in motile cells. <b>2000</b> , 97, 5225-30  | 117 |
| 1653 | SH2-B is required for growth hormone-induced actin reorganization. <b>2000</b> , 275, 13126-33   | 45  |
| 1652 | PKN binds and phosphorylates human papillomavirus E6 oncoprotein. <b>2000</b> , 275, 14824-30  | 48  |
| 1651 | An essential role for a membrane lipid in cytokinesis. Regulation of contractile ring disassembly by redistribution of phosphatidylethanolamine. <b>2000</b> , 149, 1215-24              | 201 |
| 1650 | Gastric hyperplasia in mice lacking the putative Cdc42 effector IQGAP1. <b>2000</b> , 20, 697-701  | 118 |
| 1649 | Regulatory and signaling properties of the Vav family. <b>2000</b> , 20, 1461-77   | 438 |
| 1648 | Restructuring of focal adhesion plaques by PI 3-kinase. Regulation by PtdIns (3,4,5)-p(3) binding to alpha-actinin. <b>2000</b> , 150, 627-42  | 106 |
| 1647 | A role for CD21/CD35 and CD19 in responses to acute septic peritonitis: a potential mechanism for mast cell activation. <b>2000</b> , 165, 6915-21                                       | 88  |
| 1646 | Mechanisms of early neural crest development: from cell specification to migration. <b>2000</b> , 200, 143-96  | 44  |
| 1645 | Constitutive macropinocytosis in oncogene-transformed fibroblasts depends on sequential permanent activation of phosphoinositide 3-kinase and phospholipase C. <b>2000</b> , 11, 3453-67 | 183 |
| 1644 | Regulation of dendritic spine morphology by the rho family of small GTPases: antagonistic roles of Rac and Rho. <b>2000</b> , 10, 927-38   | 341 |
| 1643 | The TITAN5 gene of Arabidopsis encodes a protein related to the ADP ribosylation factor family of GTP binding proteins. <b>2000</b> , 12, 1379-92  | 88  |
| 1642 | Monocyte chemotactic protein-1 receptor CCR2B is a glycoprotein that has tyrosine sulfation in a conserved extracellular N-terminal region. <b>2000</b> , 165, 5295-303                  | 97  |
| 1641 | Ges, A human GTPase of the Rad/Gem/Kir family, promotes endothelial cell sprouting and cytoskeleton reorganization. <b>2000</b> , 149, 1107-16   | 34  |
| 1640 | The small GTPase RAC3 gene is located within chromosome band 17q25.3 outside and telomeric of a region commonly deleted in breast and ovarian tumours. <b>2000</b> , 89, 18-23           | 14  |

|      |   |     |
|------|---|-----|
| 1639 | Dual role for transforming growth factor beta-dependent signaling in Trypanosoma cruzi infection of mammalian cells. <b>2000</b> , 68, 2077-81  | 45  |
| 1638 | Intracellular delivery of phosphoinositides and inositol phosphates using polyamine carriers. <b>2000</b> , 97, 11286-91  | 129 |
| 1637 | Tenascin-C suppresses Rho activation. <b>2000</b> , 150, 913-20   | 100 |
| 1636 | RhoA function in lamellae formation and migration is regulated by the alpha6beta4 integrin and cAMP metabolism. <b>2000</b> , 148, 253-8  | 183 |
| 1635 | ADP-ribosylation factor 6 regulates actin cytoskeleton remodeling in coordination with Rac1 and RhoA. <b>2000</b> , 20, 3685-94   | 149 |
| 1634 | MEK kinase 2 binds and activates protein kinase C-related kinase 2. Bifurcation of kinase regulatory pathways at the level of an MAPK kinase kinase. <b>2000</b> , 275, 24421-8                     | 24  |
| 1633 | Inhibitory regulation of Rac activation, membrane ruffling, and cell migration by the G protein-coupled sphingosine-1-phosphate receptor EDG5 but not EDG1 or EDG3. <b>2000</b> , 20, 9247-61       | 297 |
| 1632 | HMG CoA reductase inhibitors reduce plasminogen activator inhibitor-1 expression by human vascular smooth muscle and endothelial cells. <b>2000</b> , 20, 556-62                                    | 244 |
| 1631 | Association of mouse actin-binding protein 1 (mAbp1/SH3P7), an Src kinase target, with dynamic regions of the cortical actin cytoskeleton in response to Rac1 activation. <b>2000</b> , 11, 393-412 | 136 |
| 1630 | Rho family GTPase Cdc42 is essential for the actin-based motility of Shigella in mammalian cells. <b>2000</b> , 191, 1905-20  | 50  |
| 1629 | Rho GTPases as targets of bacterial protein toxins. <b>2000</b> , 381, 421-6  | 127 |
| 1628 | FRL, a novel formin-related protein, binds to Rac and regulates cell motility and survival of macrophages. <b>2000</b> , 20, 6872-81  | 86  |
| 1627 | Dissection of Ras-dependent signaling pathways controlling aggressive tumor growth of human fibrosarcoma cells: evidence for a potential novel pathway. <b>2000</b> , 20, 9294-306                  | 45  |
| 1626 | Endogenous, hyperactive Rac3 controls proliferation of breast cancer cells by a p21-activated kinase-dependent pathway. <b>2000</b> , 97, 185-9   | 196 |
| 1625 | Galpha 13 requires palmitoylation for plasma membrane localization, Rho-dependent signaling, and promotion of p115-RhoGEF membrane binding. <b>2000</b> , 275, 14992-9                              | 77  |
| 1624 | The PDZ protein TIP-1 interacts with the Rho effector rhotekin and is involved in Rho signaling to the serum response element. <b>2000</b> , 275, 33962-8   | 59  |
| 1623 | RhoA and rho kinase regulate the epithelial Na <sup>+</sup> /H <sup>+</sup> exchanger NHE3. Role of myosin light chain phosphorylation. <b>2000</b> , 275, 28599-606                                | 56  |
| 1622 | Characterization of TCL, a new GTPase of the rho family related to TC10 andCcdc42. <b>2000</b> , 275, 36457-64  | 100 |



|      |  |     |
|------|--|-----|
| 1621 | The BNIP-2 and Cdc42GAP homology domain of BNIP-2 mediates its homophilic association and heterophilic interaction with Cdc42GAP. <b>2000</b> , 275, 37742-51  | 38  |
| 1620 | RhoA prenylation is required for promotion of cell growth and transformation and cytoskeleton organization but not for induction of serum response element transcription. <b>2000</b> , 275, 31001-8 | 80  |
| 1619 | Regulation of cadherin adhesive activity. <b>2000</b> , 148, 399-404   | 693 |
| 1618 | Matrix survival signaling: from fibronectin via focal adhesion kinase to c-Jun NH(2)-terminal kinase. <b>2000</b> , 149, 741-54  | 335 |
| 1617 | Ankyrin-Tiam1 interaction promotes Rac1 signaling and metastatic breast tumor cell invasion and migration. <b>2000</b> , 150, 177-91   | 106 |
| 1616 | Stimulation of fascin spikes by thrombospondin-1 is mediated by the GTPases Rac and Cdc42. <b>2000</b> , 150, 807-22   | 106 |
| 1615 | Cortactin localization to sites of actin assembly in lamellipodia requires interactions with F-actin and the Arp2/3 complex. <b>2000</b> , 151, 29-40  | 340 |
| 1614 | Role of the PI3K regulatory subunit in the control of actin organization and cell migration. <b>2000</b> , 151, 249-62   | 198 |
| 1613 | Actopaxin, a new focal adhesion protein that binds paxillin LD motifs and actin and regulates cell adhesion. <b>2000</b> , 151, 1435-48  | 179 |
| 1612 | Entry of the two infectious forms of vaccinia virus at the plasma membrane is signaling-dependent for the IMV but not the EEV. <b>2000</b> , 11, 2497-511  | 140 |
| 1611 | Deamidation of RhoA glutamine 63 by the Escherichia coli CNF1 toxin requires a short sequence of the GTPase switch 2 domain. <b>2000</b> , 267, 588-92   | 31  |
| 1610 | Activation of the guanine nucleotide exchange factor Dbl following ACK1-dependent tyrosine phosphorylation. <b>2000</b> , 268, 141-7   | 52  |
| 1609 | Enhancement of the migration of metastatic human breast cancer cells by phosphatidic acid. <b>2000</b> , 268, 471-9  | 53  |
| 1608 | Rho small G-protein-dependent binding of mDia to an Src homology 3 domain-containing IRSp53/BAIAP2. <b>2000</b> , 271, 626-9   | 70  |
| 1607 | Molecular cloning of neuronally expressed mouse betaPix isoforms. <b>2000</b> , 272, 721-5   | 33  |
| 1606 | Tensin can induce JNK and p38 activation. <b>2000</b> , 272, 717-20  | 19  |
| 1605 | Mechanisms of activation and action of mDia1 in the formation of parallel stress fibers in MDCK cells. <b>2000</b> , 274, 68-72  | 6   |
| 1604 | Direct interaction of actin with p47(phox) of neutrophil NADPH oxidase. <b>2000</b> , 276, 1186-90   | 49  |



|      |  |     |
|------|--|-----|
| 1603 | A Drosophila homolog of LIM-kinase phosphorylates cofilin and induces actin cytoskeletal reorganization. <b>2000</b> , 276, 1178-85      | 51  |
| 1602 | Activation of MMP-2 by Clostridium difficile toxin B in bovine smooth muscle cells. <b>2000</b> , 277, 43-6                              | 19  |
| 1601 | Small GTPase Rac1: structure, localization, and expression of the human gene. <b>2000</b> , 277, 741-51                                  | 52  |
| 1600 | Elongation factor-1 alpha is a novel substrate of rho-associated kinase. <b>2000</b> , 278, 72-8   | 59  |
| 1599 | Rnd1, a novel rho family GTPase, induces the formation of neuritic processes in PC12 cells. <b>2000</b> , 278, 604-8                     | 33  |
| 1598 | Src family tyrosine kinases and growth factor signaling. <b>2000</b> , 254, 1-13   | 337 |
| 1597 | Clustering of beta(2)-integrins on human neutrophils activates dual signaling pathways to PtdIns 3-kinase. <b>2000</b> , 256, 257-63     | 22  |
| 1596 | Multiple roles of integrins in cell motility. <b>2000</b> , 261, 69-74   | 140 |
| 1595 | Adhesion modulation by antiadhesive molecules of the extracellular matrix. <b>2000</b> , 261, 104-10                                     | 60  |
| 1594 | Focal adhesions: a nexus for intracellular signaling and cytoskeletal dynamics. <b>2000</b> , 261, 25-36                                 | 426 |
| 1593 | Regulation and functions of Rho-associated kinase. <b>2000</b> , 261, 44-51  | 440 |
| 1592 | Rho GTPases: signaling, migration, and invasion. <b>2000</b> , 261, 1-12   | 492 |
| 1591 | The microtubule-associated protein MAP1B is involved in local stabilization of turning growth cones. <b>2000</b> , 15, 51-65             | 82  |
| 1590 | A role for Drosophila Drac1 in neurite outgrowth and synaptogenesis in the giant fiber system. <b>2000</b> , 16, 754-65                  | 34  |
| 1589 | Analysis of phosphoinositides in protein trafficking. <b>2000</b> , 20, 465-73   | 35  |
| 1588 | Cytoskeletal polarization and redistribution of cell-surface molecules during T cell antigen recognition. <b>2000</b> , 12, 5-21         | 237 |
| 1587 | Multiple-particle tracking measurements of heterogeneities in solutions of actin filaments and actin bundles. <b>2000</b> , 79, 1095-106 | 190 |
| 1586 | Prenylation inhibitors in renal disease. <b>2000</b> , 355, 741-4  | 47  |

|      |  |     |
|------|--|-----|
| 1585 | Cloning, expression analysis, and chromosomal mapping of GTPBP2, a novel member of the G protein family. <b>2000</b> , 256, 51-8   | 9   |
| 1584 | Isolation, characterization, and mapping of the mouse Fgd3 gene, a new Faciogenital Dysplasia (FGD1; Aarskog Syndrome) gene homologue. <b>2000</b> , 242, 237-47             | 34  |
| 1583 | CNS energy metabolism as related to function. <b>2000</b> , 34, 42-68  | 507 |
| 1582 | Cloning and characterization of bovine low molecular weight GTPases (Rac1 and Rac2) and rho GDP-dissociation inhibitor 2 (D4-GDI). <b>2000</b> , 74, 285-301                 | 4   |
| 1581 | Actin and the agile spine: how and why do dendritic spines dance?. <b>2000</b> , 23, 141-6   | 147 |
| 1580 | Are class III and class IX myosins motorized signalling molecules?. <b>2000</b> , 1496, 52-9   | 45  |
| 1579 | The actin cytoskeleton and neurotransmitter release: an overview. <b>2000</b> , 82, 353-63   | 125 |
| 1578 | Phosphorylation of microtubule-associated protein 2 (MAP2) and its relevance for the regulation of the neuronal cytoskeleton function. <b>2000</b> , 61, 133-68              | 401 |
| 1577 | The marine compound spisulosine, an inhibitor of cell proliferation, promotes the disassembly of actin stress fibers. <b>2000</b> , 152, 23-9                                | 116 |
| 1576 | Cdc42Hs and Rac1 GTPases induce the collapse of the vimentin intermediate filament network. <b>2000</b> , 275, 33046-52  | 50  |
| 1575 | Defective neurogenesis in citron kinase knockout mice by altered cytokinesis and massive apoptosis. <b>2000</b> , 28, 115-27   | 212 |
| 1574 | Essential roles of Drosophila RhoA in the regulation of neuroblast proliferation and dendritic but not axonal morphogenesis. <b>2000</b> , 25, 307-16                        | 252 |
| 1573 | Trio quartet in D. (melanogaster). <b>2000</b> , 26, 1-2   | 19  |
| 1572 | Dosage-sensitive, reciprocal genetic interactions between the Abl tyrosine kinase and the putative GEF trio reveal trio's role in axon pathfinding. <b>2000</b> , 26, 107-18 | 167 |
| 1571 | The Drosophila trio plays an essential role in patterning of axons by regulating their directional extension. <b>2000</b> , 26, 119-31                                       | 178 |
| 1570 | rpm-1, a conserved neuronal gene that regulates targeting and synaptogenesis in C. elegans. <b>2000</b> , 26, 345-56   | 210 |
| 1569 | Structure of the TPR domain of p67phox in complex with Rac.GTP. <b>2000</b> , 6, 899-907   | 258 |
| 1568 | Activation of astroglial phospholipase D activity by phorbol ester involves ARF and Rho proteins. <b>2000</b> , 1485, 153-62   | 13  |

|      |  |     |
|------|--|-----|
| 1567 | Identification of cadherin-11 down-regulation as a common response of astrocytoma cells to transforming growth factor-alpha. <b>2000</b> , 66, 165-72  | 27  |
| 1566 | Rac, ruffle and rho: orchestration of Salmonella invasion. <b>2000</b> , 8, 151-2  | 15  |
| 1565 | Yop effectors of Yersinia spp. and actin rearrangements. <b>2000</b> , 8, 205-8  | 51  |
| 1564 | Do cytoskeletal components control fatty acid translocation into liver mitochondria?. <b>2000</b> , 11, 49-53  | 17  |
| 1563 | Rac2 stimulates Akt activation affecting BAD/Bcl-XL expression while mediating survival and actin function in primary mast cells. <b>2000</b> , 12, 557-68   | 138 |
| 1562 | Phosphorylation of the Cdc42 exchange factor Cdc24 by the PAK-like kinase Cla4 may regulate polarized growth in yeast. <b>2000</b> , 6, 1155-67  | 196 |
| 1561 | Direct binding of the Na <sup>+</sup> -H exchanger NHE1 to ERM proteins regulates the cortical cytoskeleton and cell shape independently of H <sup>(+)</sup> translocation. <b>2000</b> , 6, 1425-36 | 347 |
| 1560 | Modulation of host signaling by a bacterial mimic: structure of the Salmonella effector SptP bound to Rac1. <b>2000</b> , 6, 1449-60   | 146 |
| 1559 | G proteins mediate changes in cell shape by stabilizing the axis of polarity. <b>2000</b> , 5, 853-64  | 78  |
| 1558 | Diaphanous-related formins bridge Rho GTPase and Src tyrosine kinase signaling. <b>2000</b> , 5, 13-25   | 333 |
| 1557 | [Recent advances in the genetics and physiopathology of X chromosomal mental retardation]. <b>2000</b> , 7 Suppl 2, 114s-118s  |     |
| 1556 | Control of epithelial cell shape and polarity. <b>2000</b> , 10, 471-5   | 48  |
| 1555 | Rho family proteins in cell adhesion and cell migration. <b>2000</b> , 36, 1269-74   | 193 |
| 1554 | Interactions between tumour cells and stromal cells and proteolytic modification of the extracellular matrix by metalloproteinases in cancer. <b>2000</b> , 36, 1258-68                              | 119 |
| 1553 | Activation of oncogenic pathways in degenerating neurons in Alzheimer disease. <b>2000</b> , 18, 433-7   | 80  |
| 1552 | Fluorescently labeled neomycin as a probe of phosphatidylinositol-4, 5-bisphosphate in membranes. <b>2000</b> , 1464, 35-48  | 59  |
| 1551 | Developmental control of endocytosis in dendritic cells by Cdc42. <b>2000</b> , 102, 325-34  | 355 |
| 1550 | Structural basis for relief of autoinhibition of the Dbl homology domain of proto-oncogene Vav by tyrosine phosphorylation. <b>2000</b> , 102, 625-33  | 318 |

|      |   |          |
|------|---|----------|
| 1549 | Structure of the Rho family GTP-binding protein Cdc42 in complex with the multifunctional regulator RhoGDI. <b>2000</b> , 100, 345-56   | 436      |
| 1548 | Trio combines with dock to regulate Pak activity during photoreceptor axon pathfinding in <i>Drosophila</i> . <b>2000</b> , 101, 283-94   | 267      |
| 1547 | <i>Drosophila</i> Dscam is an axon guidance receptor exhibiting extraordinary molecular diversity. <b>2000</b> , 101, 671-84  | 838      |
| 1546 | Directed actin polymerization is the driving force for epithelial cell-cell adhesion. <b>2000</b> , 100, 209-19   | 953      |
| 1545 | Novel <i>Dictyostelium</i> unconventional myosin, MyoM, has a putative RhoGEF domain. <b>2000</b> , 474, 16-22  | 15       |
| 1544 | Permissive role of protein kinase C alpha but not protein kinase C delta in sphingosine 1-phosphate-induced Rho A activation in C2C12 myoblasts. <b>2000</b> , 482, 97-101              | 36       |
| 1543 | The <i>Yersinia</i> Ser/Thr protein kinase YpkA/YopO directly interacts with the small GTPases RhoA and Rac-1. <b>2000</b> , 482, 139-43  | 95       |
| 1542 | Decreased expression of a member of the Rho GTPase family, Cdc42Hs, in cells from Tangier disease - the small G protein may play a role in cholesterol efflux. <b>2000</b> , 484, 275-9 | 43       |
| 1541 | The semaphorin 3A receptor may directly regulate the activity of small GTPases. <b>2000</b> , 486, 68-72  | 141      |
| 1540 | Interaction of the Grb7 adapter protein with Rnd1, a new member of the Rho family. <b>2000</b> , 467, 91-6  | 22       |
| 1539 | Molecular mechanisms controlling actin filament dynamics in nonmuscle cells. <b>2000</b> , 29, 545-76   | 1144     |
| 1538 | Polarization of chemoattractant receptor signaling during neutrophil chemotaxis. <i>Science</i> , <b>2000</b> , 287, 1037-40  | 33.3 758 |
| 1537 | Protein and lipid requirements for endocytosis. <b>2000</b> , 34, 255-295   | 107      |
| 1536 | RhoB is expressed in migrating neural crest and endocardial cushions of the developing mouse embryo. <b>2000</b> , 95, 211-4  | 30       |
| 1535 | Eph receptors and ephrins: regulators of guidance and assembly. <b>2000</b> , 196, 177-244  | 179      |
| 1534 | Perspectives: signal transduction. Signals to move cells. <i>Science</i> , <b>2000</b> , 287, 982-3, 985  | 33.3 100 |
| 1533 | Asef, a link between the tumor suppressor APC and G-protein signaling. <i>Science</i> , <b>2000</b> , 289, 1194-7   | 33.3 292 |
| 1532 | Localized Rac activation dynamics visualized in living cells. <i>Science</i> , <b>2000</b> , 290, 333-7   | 33.3 587 |

|      |  |      |     |
|------|--|------|-----|
| 1531 | Integration of multiple signals through cooperative regulation of the N-WASP-Arp2/3 complex. <i>Science</i> , <b>2000</b> , 290, 801-6                                     | 33.3 | 419 |
| 1530 | Cell biology. Actin' up with Rac1. <i>Science</i> , <b>2000</b> , 290, 1902-3  | 33.3 | 10  |
| 1529 | Rescue of photoreceptor degeneration in rhodopsin-null <i>Drosophila</i> mutants by activated Rac1. <i>Science</i> , <b>2000</b> , 290, 1978-80                            | 33.3 | 102 |
| 1528 | Involvement of the lymphocyte cytoskeleton in antigen-receptor signaling. <b>2000</b> , 245, 135-67  |      | 2   |
| 1527 | Analyses of transforming activity of Rho family activators. <b>2000</b> , 325, 425-41  |      | 12  |
| 1526 | Molecular biology of breast cancer metastasis. Inflammatory breast cancer: clinical syndrome and molecular determinants. <b>2000</b> , 2, 423-9                            |      | 155 |
| 1525 | Bacterial Protein Toxins. <b>2000</b> ,  |      | 20  |
| 1524 | Actin cytoskeleton: a signaling sensor in cell volume regulation. <b>2000</b> , 10, 257-64   |      | 63  |
| 1523 | CD44 interaction with tiam1 promotes Rac1 signaling and hyaluronic acid-mediated breast tumor cell migration. <b>2000</b> , 275, 1829-38                                   |      | 230 |
| 1522 | Residues in Cdc42 that specify binding to individual CRIB effector proteins. <b>2000</b> , 39, 1243-50   |      | 64  |
| 1521 | Improvement of nitric oxide-dependent vasodilatation by HMG-CoA reductase inhibitors through attenuation of endothelial superoxide anion formation. <b>2000</b> , 20, 61-9 |      | 433 |
| 1520 | Scar/WAVE-1, a Wiskott-Aldrich syndrome protein, assembles an actin-associated multi-kinase scaffold. <b>2000</b> , 19, 4589-600   |      | 173 |
| 1519 | Coordinating cell fate and morphogenesis in <i>Drosophila</i> renal tubules. <b>2000</b> , 355, 931-7  |      | 35  |
| 1518 | Rho GTPases: molecular switches that control the organization and dynamics of the actin cytoskeleton. <b>2000</b> , 355, 965-70  |      | 395 |
| 1517 | Control of the actin cytoskeleton by extracellular signals. <b>2001</b> , 32, 231-62   |      | 5   |
| 1516 | Regulation of actin filament network formation through ARP2/3 complex: activation by a diverse array of proteins. <b>2001</b> , 70, 649-76                                 |      | 563 |
| 1515 | Chemokine signaling and functional responses: the role of receptor dimerization and TK pathway activation. <b>2001</b> , 19, 397-421                                       |      | 302 |
| 1514 | Rho-Rho kinase is involved in smooth muscle cell migration through myosin light chain phosphorylation-dependent and independent pathways. <b>2001</b> , 155, 321-7         |      | 76  |

|      |   |     |
|------|---|-----|
| 1513 | Salmonella interactions with host cells: type III secretion at work. <b>2001</b> , 17, 53-86  | 602 |
| 1512 | Expression, purification, and crystallization of the RGS-like domain from the Rho nucleotide exchange factor, PDZ-RhoGEF, using the surface entropy reduction approach. <b>2001</b> , 21, 412-6 | 24  |
| 1511 | An Escherichia coli cytotoxin increases superoxide anion generation via rac in epithelial cells. <b>2001</b> , 283, 1026-30   | 11  |
| 1510 | Epidermal growth factor stimulation of the ACK1/Dbl pathway in a Cdc42 and Grb2-dependent manner. <b>2001</b> , 284, 470-7  | 41  |
| 1509 | Isolation of a novel human gene, ARHGAP9, encoding a rho-GTPase activating protein. <b>2001</b> , 284, 643-9  | 49  |
| 1508 | Pitavastatin enhanced BMP-2 and osteocalcin expression by inhibition of Rho-associated kinase in human osteoblasts. <b>2001</b> , 287, 337-42   | 161 |
| 1507 | Analysis of melanocyte precursors in Nf1 mutants reveals that MGF/KIT signaling promotes directed cell migration independent of its function in cell survival. <b>2001</b> , 232, 471-83        | 61  |
| 1506 | Coronary smooth muscle differentiation from proepicardial cells requires rhoA-mediated actin reorganization and p160 rho-kinase activity. <b>2001</b> , 240, 404-18                             | 139 |
| 1505 | Phagocytosis of bacterial pathogens: implications in the host response. <b>2001</b> , 13, 381-90  | 75  |
| 1504 | PKC-dependent activation of FAK and src induces tyrosine phosphorylation of Cas and formation of Cas-Crk complexes. <b>2001</b> , 264, 296-306  | 37  |
| 1503 | Rho family GTPases regulate VEGF-stimulated endothelial cell motility. <b>2001</b> , 269, 73-87   | 121 |
| 1502 | Polarity, protrusion-retraction dynamics and their interplay during keratinocyte cell migration. <b>2001</b> , 270, 129-37  | 23  |
| 1501 | Pathways linking endocytosis and actin cytoskeleton in mammalian cells. <b>2001</b> , 271, 45-56  | 48  |
| 1500 | Solution NMR structure and folding dynamics of the N terminus of a rat non-muscle alpha-tropomyosin in an engineered chimeric protein. <b>2001</b> , 312, 833-47                                | 65  |
| 1499 | GTPase RhoB: an early predictor of neuronal death after transient focal ischemia in mice. <b>2001</b> , 17, 883-94  | 60  |
| 1498 | Spinal cord repair: strategies to promote axon regeneration. <b>2001</b> , 8, 11-8  | 68  |
| 1497 | Mechanical tension controls granulation tissue contractile activity and myofibroblast differentiation. <b>2001</b> , 159, 1009-20   | 482 |
| 1496 | The neutrophil: function and regulation in innate and humoral immunity. <b>2001</b> , 99, 7-17  | 211 |

|      |   |     |
|------|---|-----|
| 1495 | The early steps of neural crest development. <b>2001</b> , 105, 27-35   | 103 |
| 1494 | The Abl interactor proteins localize to sites of actin polymerization at the tips of lamellipodia and filopodia. <b>2001</b> , 11, 891-5  | 122 |
| 1493 | A gene encoding a putative GTPase regulator is mutated in familial amyotrophic lateral sclerosis 2. <b>2001</b> , 29, 166-73  | 552 |
| 1492 | Evidence that increased tyrosine phosphorylation causes disassembly of adherens junctions but does not perturb paracellular permeability in Caco-2 cells. <b>2001</b> , 33, 500-13                  | 10  |
| 1491 | Bacterial protein toxins inhibiting low-molecular-mass GTP-binding proteins. <b>2001</b> , 291, 243-50  | 40  |
| 1490 | Origin, originality, functions, subversions and molecular signalling of macropinocytosis. <b>2002</b> , 291, 487-94   | 132 |
| 1489 | Resistance to phagocytosis by Yersinia. <b>2002</b> , 291, 501-9  | 25  |
| 1488 | Traction force microscopy of migrating normal and H-ras transformed 3T3 fibroblasts. <b>2001</b> , 80, 1744-57  | 406 |
| 1487 | Cell volume kinetics of adherent epithelial cells measured by laser scanning reflection microscopy: determination of water permeability changes of renal principal cells. <b>2001</b> , 80, 1783-90 | 41  |
| 1486 | The regulation of actin polymerization and cross-linking in Dictyostelium. <b>2001</b> , 1525, 217-27   | 17  |
| 1485 | Isolation of hNap1BP which interacts with human Nap1 (NCKAP1) whose expression is down-regulated in Alzheimer's disease. <b>2001</b> , 271, 159-69  | 32  |
| 1484 | Interactions between Rho GTPases and Rho GDP dissociation inhibitor (Rho-GDI). <b>2001</b> , 83, 409-14   | 56  |
| 1483 | Cell signalling cascades regulating neuronal growth-promoting and inhibitory cues. <b>2001</b> , 65, 593-608  | 73  |
| 1482 | Extracellular matrix components regulate ACTH production and proliferation in corticotroph tumor cells. <b>2001</b> , 175, 141-8  | 29  |
| 1481 | Organophosphorus compounds alter intracellular F-actin content in SH-SY5Y human neuroblastoma cells. <b>2001</b> , 22, 819-27   | 23  |
| 1480 | Rho-Rho-kinase pathway in smooth muscle contraction and cytoskeletal reorganization of non-muscle cells. <b>2001</b> , 22, 32-9   | 636 |
| 1479 | Nitric oxide regulates actin reorganization through cGMP and Ca(2+)/calmodulin in RAW 264.7 cells. <b>2001</b> , 1539, 101-13   | 38  |
| 1478 | Biochemical and morphological analysis on the localization of Rac1 in neurons. <b>2001</b> , 39, 189-96   | 39  |

|      |   |     |
|------|---|-----|
| 1477 | Salmonella: a model for bacterial pathogenesis. <b>2001</b> , 52, 259-74  | 304 |
| 1476 | Two signals are better than one: border cell migration in Drosophila. <b>2001</b> , 1, 443-5  | 8   |
| 1475 | Statins and their potential for osteoporosis. <b>2001</b> , 29, 495-7   | 68  |
| 1474 | Modulating angiotensin II-induced inflammation by HMG Co-A reductase inhibition. <b>2001</b> , 14, 55S-61S  | 42  |
| 1473 | Plexin B mediates axon guidance in Drosophila by simultaneously inhibiting active Rac and enhancing RhoA signaling. <b>2001</b> , 32, 39-51                   | 176 |
| 1472 | Phosphoinositides, key molecules for regulation of actin cytoskeletal organization and membrane traffic from the plasma membrane. <b>2001</b> , 1533, 190-206 | 223 |
| 1471 | Cytoskeletal changes in cell transformation and tumorigenesis. <b>2001</b> , 11, 41-7   | 260 |
| 1470 | The GTPase Rac-1 controls cell fate in the thymus by diverting thymocytes from positive to negative selection. <b>2001</b> , 15, 703-13                       | 46  |
| 1469 | Integrin-specific activation of Rac controls progression through the G(1) phase of the cell cycle. <b>2001</b> , 8, 115-27                                    | 245 |
| 1468 | HERC3 binding to and regulation by ubiquitin. <b>2001</b> , 488, 74-80  | 23  |
| 1467 | Scar/WAVE is localised at the tips of protruding lamellipodia in living cells. <b>2001</b> , 492, 215-20  | 78  |
| 1466 | The Rho-ADP-ribosylating C3 exoenzyme from Clostridium botulinum and related C3-like transferases. <b>2001</b> , 39, 1647-60                                  | 63  |
| 1465 | The cytotoxic necrotizing factor 1 (CNF1) from Escherichia coli. <b>2001</b> , 39, 1673-80  | 90  |
| 1464 | Drosophila Rho-associated kinase (Drok) links Frizzled-mediated planar cell polarity signaling to the actin cytoskeleton. <b>2001</b> , 105, 81-91            | 449 |
| 1463 | Integrin-mediated activation of Cdc42 controls cell polarity in migrating astrocytes through PKCzeta. <b>2001</b> , 106, 489-98                               | 866 |
| 1462 | Guidance of cell migration by the Drosophila PDGF/VEGF receptor. <b>2001</b> , 107, 17-26   | 355 |
| 1461 | Regulating axon branch stability: the role of p190 RhoGAP in repressing a retraction signaling pathway. <b>2001</b> , 107, 195-207                            | 191 |
| 1460 | Signal transduction in neuronal migration: roles of GTPase activating proteins and the small GTPase Cdc42 in the Slit-Robo pathway. <b>2001</b> , 107, 209-21 | 468 |



|      |  |      |
|------|--|------|
| 1459 | Wnt/Frizzled activation of Rho regulates vertebrate gastrulation and requires a novel Formin homology protein Daam1. <b>2001</b> , 107, 843-54   | 663  |
| 1458 | CD46/CD3 costimulation induces morphological changes of human T cells and activation of Vav, Rac, and extracellular signal-regulated kinase mitogen-activated protein kinase. <b>2001</b> , 167, 6780-5                | 102  |
| 1457 | Ras signaling pathway proteins as therapeutic targets. <b>2001</b> , 7, 1581-94  | 38   |
| 1456 | Transforming growth factor-beta1 mediates epithelial to mesenchymal transdifferentiation through a RhoA-dependent mechanism. <b>2001</b> , 12, 27-36   | 863  |
| 1455 | Rich, a rho GTPase-activating protein domain-containing protein involved in signaling by Cdc42 and Rac1. <b>2001</b> , 276, 35060-70   | 91   |
| 1454 | Prolactin receptor signal transduction. <b>2001</b> , 10, 706-18   | 92   |
| 1453 | Activation and function of the Rap1 GTPase in B lymphocytes. <b>2001</b> , 20, 763-89  | 21   |
| 1452 | Transforming growth factor-beta3 perturbs the inter-Sertoli tight junction permeability barrier in vitro possibly mediated via its effects on occludin, zonula occludens-1, and claudin-11. <b>2001</b> , 142, 1865-77 | 167  |
| 1451 | Interaction of protein kinase C isozymes with Rho GTPases. <b>2001</b> , 40, 4437-45   | 66   |
| 1450 | Inactivation of AtRac1 by abscisic acid is essential for stomatal closure. <b>2001</b> , 15, 1808-16   | 194  |
| 1449 | The Rop GTPase switch controls multiple developmental processes in Arabidopsis. <b>2001</b> , 126, 670-84  | 174  |
| 1448 | Global disruption of the WASP autoinhibited structure on Cdc42 binding. Ligand displacement as a novel method for monitoring amide hydrogen exchange. <b>2001</b> , 40, 14115-22                                       | 18   |
| 1447 | Regulation of blastocyst formation. <b>2001</b> , 6, D708-30   | 101  |
| 1446 | Regulation of blastocyst formation. <b>2001</b> , 6, d708-730  | 81   |
| 1445 | Differential Involvement of the P2Y1 and P2YT Receptors in the Morphological Changes of Platelet Aggregation. <b>2001</b> , 85, 694-701  | 50   |
| 1444 | Suppression of cellular invasion by activated G-protein subunits Galphao, Galphai1, Galphai2, and Galphai3 and sequestration of Gbetagamma. <b>2001</b> , 60, 363-72   | 37   |
| 1443 | Small GTP-binding proteins. <b>2001</b> , 81, 153-208  | 2013 |
| 1442 | Molecular mechanisms of phenotypic plasticity in smooth muscle cells. <b>2001</b> , 90, 358-68   | 223  |

|      |   |      |
|------|---|------|
| 1441 | Microbes and microbial toxins: paradigms for microbial-mucosal interactions II. The integrated response of the intestine to Clostridium difficile toxins. <b>2001</b> , 280, G178-83                            | 137  |
| 1440 | Mammalian mitogen-activated protein kinase signal transduction pathways activated by stress and inflammation. <b>2001</b> , 81, 807-69  | 2761 |
| 1439 | Rho-kinase Is Involved in the Sustained Phosphorylation of Myosin and the Irreversible Platelet Aggregation Induced by PAR1 Activating Peptide. <b>2001</b> , 85, 514-520                                       | 26   |
| 1438 | The Small GTPase Rac Suppresses Apoptosis Caused by Serum Deprivation in Fibroblasts. <b>2001</b> , 7, 293-300  | 30   |
| 1437 | Synapse Formation. <b>2001</b> , 15362-15366  |      |
| 1436 | The Receptor Tyrosine Kinases. <b>2001</b> , 10, 271-288  | 34   |
| 1435 | Regulation of I(Cl,swell) in neuroblastoma cells by G protein signaling pathways. <b>2001</b> , 281, C89-98   | 32   |
| 1434 | Ca <sup>2+</sup> -RhoA signaling pathway required for polyamine-dependent intestinal epithelial cell migration. <b>2001</b> , 280, C993-1007  | 78   |
| 1433 | Integrins and mechanotransduction of the vascular myogenic response. <b>2001</b> , 280, H1427-33  | 132  |
| 1432 | Specific association of nitric oxide synthase-2 with Rac isoforms in activated murine macrophages. <b>2001</b> , 281, F326-36   | 47   |
| 1431 | Microbes and microbial toxins: paradigms for microbial-mucosal interactions III. Shigellosis: from symptoms to molecular pathogenesis. <b>2001</b> , 280, G319-23   | 104  |
| 1430 | Cdc42, but not RhoA, regulates cyclin D1 expression in bovine tracheal myocytes. <b>2001</b> , 280, L974-82   | 24   |
| 1429 | Rho-kinase regulates myosin II activation in MDCK cells during recovery after ATP depletion. <b>2001</b> , 281, F810-8  | 24   |
| 1428 | Stages of synapse development defined by dependence on F-actin. <b>2001</b> , 21, 5169-81   | 195  |
| 1427 | Distinct roles for the two Rho GDP/GTP exchange factor domains of kalirin in regulation of neurite growth and neuronal morphology. <b>2001</b> , 21, 8426-34  | 73   |
| 1426 | Synapse-forming axons and recombinant agrin induce microprocess formation on myotubes. <b>2001</b> , 21, 9678-89  | 35   |
| 1425 | Lifeline Research Meeting Abstracts. <b>2001</b> , 33, 1286-1315  |      |
| 1424 | LIM-kinase 2 induces formation of stress fibres, focal adhesions and membrane blebs, dependent on its activation by Rho-associated kinase-catalysed phosphorylation at threonine-505. <b>2001</b> , 354, 149-59 | 90   |

|      |   |     |
|------|---|-----|
| 1423 | Metalloprotease-disintegrin ADAM 12 interacts with alpha-actinin-1. <b>2001</b> , 357, 353-61   | 26  |
| 1422 | LIM-kinase 2 induces formation of stress fibres, focal adhesions and membrane blebs, dependent on its activation by Rho-associated kinase-catalysed phosphorylation at threonine-505. <b>2001</b> , 354, 149-159            | 126 |
| 1421 | Characterization of membrane-localized and cytosolic Rac-GTPase-activating proteins in human neutrophil granulocytes: contribution to the regulation of NADPH oxidase. <b>2001</b> , 355, 851-8                             | 28  |
| 1420 | Metalloprotease-disintegrin ADAM 12 interacts with $\beta$ -actinin-1. <b>2001</b> , 357, 353-361   | 32  |
| 1419 | The interaction between Cdc42 and WASP is required for SDF-1-induced T-lymphocyte chemotaxis. <b>2001</b> , 97, 33-8  | 180 |
| 1418 | Chemokine stromal cell-derived factor-1alpha modulates VLA-4 integrin-mediated multiple myeloma cell adhesion to CS-1/fibronectin and VCAM-1. <b>2001</b> , 97, 346-51  | 210 |
| 1417 | Expression of scinderin in megakaryoblastic leukemia cells induces differentiation, maturation, and apoptosis with release of plateletlike particles and inhibits proliferation and tumorigenesis. <b>2001</b> , 98, 2210-9 | 47  |
| 1416 | Rho inhibits cAMP-induced translocation of aquaporin-2 into the apical membrane of renal cells. <b>2001</b> , 281, F1092-101  | 90  |
| 1415 | Protein kinase A regulates Rac and is required for the growth factor-stimulated migration of carcinoma cells. <b>2001</b> , 276, 47895-900  | 108 |
| 1414 | Actin and Actin Filaments. <b>2001</b> ,  |     |
| 1413 | The actin cytoskeleton, membrane lipid microdomains, and T cell signal transduction. <b>2001</b> , 77, 1-43   | 6   |
| 1412 | Serum-dependent perinuclear accumulation of Cdc42 in mammalian cells.. <b>2001</b> , 8, 71  |     |
| 1411 | Extracellular ATP or ADP induce chemotaxis of cultured microglia through Gi/o-coupled P2Y receptors. <b>2001</b> , 21, 1975-82  | 449 |
| 1410 | Cell-matrix contact structures. <b>2001</b> , 58, 371-92  | 114 |
| 1409 | Pollen Tube Cytoskeleton: Structure and Function. <b>2001</b> , 20, 113-130   | 33  |
| 1408 | Cell and tissue behavior on micro-grooved surfaces. <b>2001</b> , 89, 2-11  | 101 |
| 1407 | DrhoGEF3 encodes a new Drosophila DH domain protein that exhibits a highly dynamic embryonic expression pattern. <b>2001</b> , 211, 263-7   | 3   |
| 1406 | Mutation status of genes encoding RhoA, Rac1, and Cdc42 GTPases in a panel of invasive human colorectal and breast tumors. <b>2001</b> , 127, 733-8   | 47  |

|      |  |     |
|------|--|-----|
| 1405 | Function and interactions of integrins. <b>2001</b> , 305, 285-98  | 790 |
| 1404 | Phenotypic changes associated with exogenous expression of p16INK4a in human glioma cells. <b>2001</b> , 18, 73-81   | 4   |
| 1403 | Developmental disorders of activity dependent neuronal plasticity. <b>2001</b> , 68, 423-6   | 7   |
| 1402 | Missense C168T in the Wiskott--Aldrich Syndrome protein gene is a common mutation in X-linked thrombocytopenia. <b>2001</b> , 112, 76-80   | 7   |
| 1401 | Rho GTPase activity modulates <i>Pseudomonas aeruginosa</i> internalization by epithelial cells. <b>2001</b> , 3, 85-98  | 54  |
| 1400 | YopE of <i>Yersinia</i> , a GAP for Rho GTPases, selectively modulates Rac-dependent actin structures in endothelial cells. <b>2001</b> , 3, 301-10  | 114 |
| 1399 | Overexpression of RhoA mRNA is associated with advanced stage in testicular germ cell tumour. <b>2001</b> , 87, 227-31   | 76  |
| 1398 | Different roles for RhoA during neurite initiation, elongation, and regeneration in PC12 cells. <b>1999</b> , 73, 949-60   | 99  |
| 1397 | Human homologues of the <i>Caenorhabditis elegans</i> cell polarity protein PAR6 as an adaptor that links the small GTPases Rac and Cdc42 to atypical protein kinase C. <b>2001</b> , 6, 107-19                | 112 |
| 1396 | Coronin forms a stable dimer through its C-terminal coiled coil region: an implicated role in its localization to cell periphery. <b>2001</b> , 6, 225-35  | 26  |
| 1395 | Regulation of Ras and Rho small G proteins by SHP-2. <b>2001</b> , 6, 869-76   | 13  |
| 1394 | Characterization of GTPase-activating proteins for the function of the Rho-family small GTPases in the fission yeast <i>Schizosaccharomyces pombe</i> . <b>2001</b> , 6, 1031-42                               | 32  |
| 1393 | A <i>Salmonella</i> inositol polyphosphatase acts in conjunction with other bacterial effectors to promote host cell actin cytoskeleton rearrangements and bacterial internalization. <b>2001</b> , 39, 248-59 | 317 |
| 1392 | Pathogenicity island-dependent activation of Rho GTPases Rac1 and Cdc42 in <i>Helicobacter pylori</i> infection. <b>2001</b> , 40, 815-23  | 80  |
| 1391 | De novo formation of focal complex-like structures in host cells by invading <i>Streptococci</i> . <b>2001</b> , 41, 561-73  | 81  |
| 1390 | Endocytic traffic in polarized epithelial cells: role of the actin and microtubule cytoskeleton. <b>2001</b> , 2, 149-59   | 327 |
| 1389 | The p38-MAPK/SAPK pathway is required for human keratinocyte migration on dermal collagen. <b>2001</b> , 117, 1601-11  | 51  |
| 1388 | Distribution of transcripts for the brain-specific GDP/GTP exchange factor collybistin in the developing mouse brain. <b>2001</b> , 13, 487-92   | 23  |

|      |   |     |
|------|---|-----|
| 1387 | Fibronectin and laminin elicit differential behaviors from SH-SY5Y growth cones contacting inhibitory chondroitin sulfate proteoglycans. <b>2001</b> , 66, 630-42   | 30  |
| 1386 | Effects of latrunculin reveal requirements for the actin cytoskeleton during secretion from mast cells. <b>2001</b> , 48, 37-51   | 59  |
| 1385 | Overexpression of wild-type RhoA produces growth arrest by disrupting actin cytoskeleton and microtubules. <b>2000</b> , 80, 229-40   | 16  |
| 1384 | Mutated-gamma-actin restores growth to a yeast amino acid transport defective mutant. <b>2001</b> , 186, 124-35   | 0   |
| 1383 | Expression of kalirin, a neuronal GDP/GTP exchange factor of the trio family, in the central nervous system of the adult rat. <b>2001</b> , 429, 388-402  | 50  |
| 1382 | A method to measure the interaction of Rac/Cdc42 with their binding partners using fluorescence resonance energy transfer between mutants of green fluorescent protein. <b>2001</b> , 296, 208-17                                 | 32  |
| 1381 | Morphological changes of human skin cells exposed to a DC electric field in vitro using a new exposure system. <b>2001</b> , 79, 668-677  | 10  |
| 1380 | Reorganization of the actin cytoskeleton in the protruding lamellae of human fibroblasts. <b>2001</b> , 50, 13-32   | 14  |
| 1379 | Structural abnormalities develop in the brain after ablation of the gene encoding nonmuscle myosin II-B heavy chain. <b>2001</b> , 433, 62-74   | 98  |
| 1378 | Regulation of neurotrophin-induced axonal responses via Rho GTPases. <b>2001</b> , 438, 377-87  | 37  |
| 1377 | Loss of alpha3beta1 integrin function results in an altered differentiation program in the mouse submandibular gland. <b>2001</b> , 220, 337-49   | 62  |
| 1376 | Regulation of Epha4 expression in paraxial and lateral plate mesoderm by ectoderm-derived signals. <b>2001</b> , 220, 377-86  | 32  |
| 1375 | Selective expression of the small GTPase RhoB in the early developing mouse lens. <b>2001</b> , 222, 534-7  | 17  |
| 1374 | Cloning and characterization of human syndecan-3. <b>2001</b> , 82, 246-59  | 16  |
| 1373 | Role of phosphoinositide 3OH-kinase in autocrine transformation by PDGF-BB. <b>2001</b> , 188, 369-82   | 7   |
| 1372 | Fibronectin, integrins, and growth control. <b>2001</b> , 189, 1-13   | 364 |
| 1371 | Rapid morphological changes in astrocytes are accompanied by redistribution but not by quantitative changes of cytoskeletal proteins. <b>2001</b> , 36, 102-15  | 58  |
| 1370 | Characterization of ARHGEF6, a guanine nucleotide exchange factor for Rho GTPases and a candidate gene for X-linked mental retardation: mutation screening in Břeson-Forssman-Lehmann syndrome and MRX27. <b>2001</b> , 100, 43-8 | 5   |

|      |  |     |
|------|--|-----|
| 1369 | Tumor invasion as dysregulated cell motility. <b>2001</b> , 11, 105-17   | 134 |
| 1368 | Towards a mechanistic understanding of tumor invasion--lessons from the alpha6beta 4 integrin. <b>2001</b> , 11, 129-41  | 186 |
| 1367 | Regulation of the cytoskeleton by Rho-family GTPases: implications for tumour cell invasion. <b>2001</b> , 11, 167-73  | 111 |
| 1366 | RhoA is activated during respiratory syncytial virus infection. <b>2001</b> , 283, 188-96  | 47  |
| 1365 | Reorganization of actin during repair of hair bundle mechanoreceptors. <b>2001</b> , 30, 895-906   | 11  |
| 1364 | Increased expression of protein kinase Calpha, interleukin-1alpha, and RhoA guanosine 5'-triphosphatase in osteoblasts expressing the Ser252Trp fibroblast growth factor 2 receptor Apert mutation: identification by analysis of complementary DNA microarray. <b>2001</b> , 16, 705-12 | 51  |
| 1363 | CD44-mediated oncogenic signaling and cytoskeleton activation during mammary tumor progression. <b>2001</b> , 6, 287-97  | 122 |
| 1362 | Prolactin Receptor Signal Transduction. <b>2001</b> , 355-379  | 3   |
| 1361 | The Wiskott-Aldrich syndrome. <b>2001</b> , 20, 61-86  | 48  |
| 1360 | Inhibition of intrahepatic metastasis of human hepatocellular carcinoma by Rho-associated protein kinase inhibitor Y-27632. <b>2001</b> , 33, 577-81   | 97  |
| 1359 | Demonstration of mixed properties of RU486 in progesterone receptor (PR)-transfected MDA-MB-231 cells: a model for studying the functions of progesterone analogues. <b>2001</b> , 85, 1978-86   | 12  |
| 1358 | Cell migration: GAPs between membrane traffic and the cytoskeleton. <b>2001</b> , 2, 277-81  | 77  |
| 1357 | A putative GDP-GTP exchange factor is required for development of the excretory cell in <i>Caenorhabditis elegans</i> . <b>2001</b> , 2, 530-5   | 33  |
| 1356 | Actin pedestal formation by enteropathogenic <i>Escherichia coli</i> and intracellular motility of <i>Shigella flexneri</i> are abolished in N-WASP-defective cells. <b>2001</b> , 2, 850-7  | 222 |
| 1355 | <i>Arabidopsis thaliana</i> Rop GTPases are localized to tips of root hairs and control polar growth. <b>2001</b> , 20, 2779-88  | 333 |
| 1354 | A bacterial type III secretion system inhibits actin polymerization to prevent pore formation in host cell membranes. <b>2001</b> , 20, 5373-82  | 100 |
| 1353 | Rho1p and Cdc42p act after Ypt7p to regulate vacuole docking. <b>2001</b> , 20, 5650-6   | 91  |
| 1352 | The <i>Dictyostelium</i> Bcr/Abr-related protein DRG regulates both Rac- and Rab-dependent pathways. <b>2001</b> , 20, 1620-9  | 23  |

|      |   |     |
|------|---|-----|
| 1351 | Rupture, invasion and inflammatory destruction of the intestinal barrier by Shigella, making sense of prokaryote-eukaryote cross-talks. <b>2001</b> , 25, 3-14                      | 49  |
| 1350 | Group A Streptococcus tissue invasion by CD44-mediated cell signalling. <b>2001</b> , 414, 648-52   | 186 |
| 1349 | How do dendrites take their shape?. <b>2001</b> , 4, 359-65   | 238 |
| 1348 | Phosphorylation of cofilin by LIM-kinase is necessary for semaphorin 3A-induced growth cone collapse. <b>2001</b> , 4, 367-73   | 296 |
| 1347 | Molecular basis for Rac1 recognition by guanine nucleotide exchange factors. <b>2001</b> , 8, 1037-41   | 78  |
| 1346 | N-WASP deficiency reveals distinct pathways for cell surface projections and microbial actin-based motility. <b>2001</b> , 3, 897-904   | 276 |
| 1345 | Endocytic protein intersectin-1 regulates actin assembly via Cdc42 and N-WASP. <b>2001</b> , 3, 927-32  | 312 |
| 1344 | Suppression of the tumorigenicity of mutant p53-transformed rat embryo fibroblasts through expression of a newly cloned rat nonmuscle myosin heavy chain-B. <b>2001</b> , 20, 58-68 | 16  |
| 1343 | Cytoskeletal organization in tropomyosin-mediated reversion of ras-transformation: Evidence for Rho kinase pathway. <b>2001</b> , 20, 2112-21                                       | 40  |
| 1342 | Protein kinases required for segregation of vimentin filaments in mitotic process. <b>2001</b> , 20, 2868-76  | 74  |
| 1341 | Cooperation of Cdc42 small G protein-activating and actin filament-binding activities of frabin in microspike formation. <b>2001</b> , 20, 3457-63                                  | 22  |
| 1340 | Cortactin: coupling membrane dynamics to cortical actin assembly. <b>2001</b> , 20, 6418-34   | 350 |
| 1339 | Insulin-like growth factor I stimulates motility in human neuroblastoma cells. <b>2001</b> , 20, 7542-50  | 58  |
| 1338 | Separate but linked functions of conventional myosins modulate adhesion and neurite outgrowth. <b>2001</b> , 3, 88-92   | 83  |
| 1337 | Rac recruits high-affinity integrin $\alpha$ v $\beta$ 3 to lamellipodia in endothelial cell migration. <b>2001</b> , 3, 316-20   | 225 |
| 1336 | Modulation of the neuronal glutamate transporter EAAT4 by two interacting proteins. <b>2001</b> , 410, 89-93  | 215 |
| 1335 | Membrane blebbing during apoptosis results from caspase-mediated activation of ROCK I. <b>2001</b> , 3, 339-45  | 964 |
| 1334 | Caspase-3-mediated cleavage of ROCK I induces MLC phosphorylation and apoptotic membrane blebbing. <b>2001</b> , 3, 346-52  | 694 |

|      |   |     |
|------|---|-----|
| 1333 | Spatial regulation of the exocyst complex by Rho1 GTPase. <b>2001</b> , 3, 353-60   | 266 |
| 1332 | WIP regulates N-WASP-mediated actin polymerization and filopodium formation. <b>2001</b> , 3, 484-91  | 230 |
| 1331 | Haematopoietic cell-specific CDM family protein DOCK2 is essential for lymphocyte migration. <b>2001</b> , 412, 826-31  | 357 |
| 1330 | The core of the motor domain determines the direction of myosin movement. <b>2001</b> , 412, 831-4  | 61  |
| 1329 | Rho-family GTPases in cadherin-mediated cell-cell adhesion. <b>2001</b> , 2, 887-97   | 357 |
| 1328 | Involvement of Rho-kinase and tyrosine kinase in hypotonic stress-induced ATP release in bovine aortic endothelial cells. <b>2001</b> , 532, 759-69   | 86  |
| 1327 | PI3-kinase p85alpha is a target molecule of proline-rich antimicrobial peptide to suppress proliferation of ras-transformed cells. <b>2001</b> , 92, 959-67   | 41  |
| 1326 | RhoB expression is induced after the transient upregulation of RhoA and Cdc42 during neuronal differentiation and influenced by culture substratum and microtubule integrity. <b>2001</b> , 129, 157-68 | 10  |
| 1325 | Rupture, invasion and inflammatory destruction of the intestinal barrier by Shigella, making sense of prokaryote-eukaryote cross-talks. <b>2001</b> , 25, 3-14  | 91  |
| 1324 | Small GTPases in Dictyostelium: lessons from a social amoeba. <b>2001</b> , 17, 41-8  | 45  |
| 1323 | Evolutionary expansion of CRIB-containing Cdc42 effector proteins. <b>2001</b> , 17, 370-3  | 45  |
| 1322 | Genetic and functional analysis of PARP, a DNA strand break-binding enzyme. <b>2001</b> , 477, 89-96  | 13  |
| 1321 | Role of myosin-II phosphorylation in V12Cdc42-mediated disruption of Drosophila cellularization. <b>2001</b> , 80, 240-4  | 5   |
| 1320 | Two subcellular localizations of eIF3 p170 and its interaction with membrane-bound microfilaments: implications for alternative functions of p170. <b>2001</b> , 80, 410-8                              | 24  |
| 1319 | Cytoskeletal alterations in Dictyostelium induced by expression of human cdc42. <b>2001</b> , 80, 399-409   | 4   |
| 1318 | Requirement for Rho GTPases and PI 3-kinases during apoptotic cell phagocytosis by macrophages. <b>2001</b> , 11, 195-9   | 146 |
| 1317 | Plexin-B semaphorin receptors interact directly with active Rac and regulate the actin cytoskeleton by activating Rho. <b>2001</b> , 11, 339-44   | 164 |
| 1316 | A Rho-dependent signaling pathway operating through myosin localizes beta-actin mRNA in fibroblasts. <b>2001</b> , 11, 1010-6   | 80  |



|      |  |     |
|------|--|-----|
| 1315 | Expression of dominant-negative and chimeric subunits reveals an essential role for beta1 integrin during myelination. <b>2001</b> , 11, 1039-43   | 88  |
| 1314 | Cytoskeleton: Microtubules get the signal. <b>2001</b> , 11, R820-3  | 33  |
| 1313 | Cdc42 induces filopodia by promoting the formation of an IRSp53:Mena complex. <b>2001</b> , 11, 1645-55  | 308 |
| 1312 | Rho family proteins: coordinating cell responses. <b>2001</b> , 11, 471-7  | 633 |
| 1311 | Signaling pathways controlling cell polarity and chemotaxis. <b>2001</b> , 26, 557-66  | 267 |
| 1310 | Dbl family guanine nucleotide exchange factors. <b>2001</b> , 26, 724-32   | 344 |
| 1309 | Structure of the RGS-like domain from PDZ-RhoGEF: linking heterotrimeric g protein-coupled signaling to Rho GTPases. <b>2001</b> , 9, 559-69   | 69  |
| 1308 | The cytoskeleton and cell volume regulation. <b>2001</b> , 130, 385-99   | 178 |
| 1307 | Membrane-targeting is critical for the phosphorylation of Vav2 by activated EGF receptor. <b>2001</b> , 13, 475-81   | 19  |
| 1306 | Dual regulation of sphingosine 1-phosphate-induced phospholipase D activity through RhoA and protein kinase C-alpha in C2C12 myoblasts. <b>2001</b> , 13, 593-8                            | 12  |
| 1305 | Paxillin-ARF GAP signaling and the cytoskeleton. <b>2001</b> , 13, 593-9   | 113 |
| 1304 | Regulation of Rho GTPases by p120-catenin. <b>2001</b> , 13, 604-10  | 237 |
| 1303 | Rho GTPases in growth cone guidance. <b>2001</b> , 11, 103-10  | 308 |
| 1302 | The role of Notch and Rho GTPase signaling in the control of dendritic development. <b>2001</b> , 11, 111-7  | 100 |
| 1301 | Dendritic arbor development and synaptogenesis. <b>2001</b> , 11, 118-26   | 416 |
| 1300 | Chemokine stromal cell-derived factor-1alpha modulates VLA-4 integrin-dependent adhesion to fibronectin and VCAM-1 on bone marrow hematopoietic progenitor cells. <b>2001</b> , 29, 345-55 | 103 |
| 1299 | SDF-1-induced actin polymerization and migration in human hematopoietic progenitor cells. <b>2001</b> , 29, 1456-64  | 52  |
| 1298 | Rac and Cdc42 GTPases control hematopoietic stem cell shape, adhesion, migration, and mobilization. <b>2001</b> , 98, 5614-8   | 169 |

|      |  |     |
|------|--|-----|
| 1297 | Activated Cdc42/Rac reconstitutes Fcepsilon RI-mediated Ca <sup>2+</sup> mobilization and degranulation in mutant RBL mast cells. <b>2001</b> , 98, 1154-9                                 | 45  |
| 1296 | Rac/Cdc42 and p65PAK regulate the microtubule-destabilizing protein stathmin through phosphorylation at serine 16. <b>2001</b> , 276, 1677-80  | 223 |
| 1295 | Oligomerization of Rac1 gtpase mediated by the carboxyl-terminal polybasic domain. <b>2001</b> , 276, 8958-67  | 30  |
| 1294 | Differential activation of the Rac pathway by Ha-Ras and K-Ras. <b>2001</b> , 276, 15609-15  | 138 |
| 1293 | The integrin alpha 7 cytoplasmic domain regulates cell migration, lamellipodia formation, and p130CAS/Crk coupling. <b>2001</b> , 276, 13417-26  | 21  |
| 1292 | Trp(56) of rac1 specifies interaction with a subset of guanine nucleotide exchange factors. <b>2001</b> , 276, 47530-41  | 83  |
| 1291 | Signaling mediated by the cytosolic domain of peptidylglycine alpha-amidating monooxygenase. <b>2001</b> , 12, 629-44  | 27  |
| 1290 | Epitope mapping of monoclonal antibodies capable of neutralizing cytotoxic necrotizing factor type 1 of uropathogenic Escherichia coli. <b>2001</b> , 69, 2066-74                          | 19  |
| 1289 | Actin rearrangement-inducing factor of baculoviruses is tyrosine phosphorylated and colocalizes to F-actin at the plasma membrane. <b>2001</b> , 75, 3771-8                                | 29  |
| 1288 | Cytoskeletal effects of rho-like small guanine nucleotide-binding proteins in the vascular system. <b>2001</b> , 21, 300-11  | 134 |
| 1287 | Differential responses to nerve growth factor and epidermal growth factor in neurite outgrowth of PC12 cells are determined by Rac1 activation systems. <b>2001</b> , 276, 15298-305       | 56  |
| 1286 | A novel Dbl family RhoGEF promotes Rho-dependent axon attraction to the central nervous system midline in Drosophila and overcomes Robo repulsion. <b>2001</b> , 155, 1117-22              | 55  |
| 1285 | mDia-interacting protein acts downstream of Rho-mDia and modifies Src activation and stress fiber formation. <b>2001</b> , 276, 39290-4  | 72  |
| 1284 | Ras GTPases: singing in tune. <b>2001</b> , 2001, pe1  | 10  |
| 1283 | Fgd1, the Cdc42 guanine nucleotide exchange factor responsible for faciogenital dysplasia, is localized to the subcortical actin cytoskeleton and Golgi membrane. <b>2001</b> , 10, 485-95 | 63  |
| 1282 | Dual mechanisms of ABCA1 regulation by geranylgeranyl pyrophosphate. <b>2001</b> , 276, 48702-8  | 82  |
| 1281 | Rac1 inhibits myogenic differentiation by preventing the complete withdrawal of myoblasts from the cell cycle. <b>2001</b> , 276, 37307-16   | 48  |
| 1280 | Phosphatidylinositol 4,5-bisphosphate induces actin stress-fiber formation and inhibits membrane ruffling in CV1 cells. <b>2001</b> , 152, 867-76  | 104 |

|      |   |     |
|------|---|-----|
| 1279 | RhoA is required for monocyte tail retraction during transendothelial migration. <b>2001</b> , 154, 147-60  | 411 |
| 1278 | RhoA inactivation by p190RhoGAP regulates cell spreading and migration by promoting membrane protrusion and polarity. <b>2001</b> , 12, 2711-20   | 369 |
| 1277 | Cofilin phosphorylation by protein kinase testicular protein kinase 1 and its role in integrin-mediated actin reorganization and focal adhesion formation. <b>2001</b> , 12, 1131-45                        | 229 |
| 1276 | Temporal and spatial regulation of Rho-type guanine-nucleotide exchange factors: the yeast perspective. <b>2001</b> , 15, 365-79  | 81  |
| 1275 | A point mutation in the N-terminal coiled-coil domain releases c-Fes tyrosine kinase activity and survival signaling in myeloid leukemia cells. <b>2001</b> , 21, 6170-80                                   | 41  |
| 1274 | Human cofilin forms oligomers exhibiting actin bundling activity. <b>2001</b> , 276, 49476-84   | 53  |
| 1273 | Antiviral activity of lovastatin against respiratory syncytial virus in vivo and in vitro. <b>2001</b> , 45, 1231-7   | 102 |
| 1272 | The mouse Arhgef6 gene: cDNA sequence, expression analysis, and chromosome assignment. <b>2001</b> , 95, 196-201  | 8   |
| 1271 | Adenovirus-mediated transfer of dominant-negative rho-kinase induces a regression of coronary arteriosclerosis in pigs in vivo. <b>2001</b> , 21, 548-54  | 86  |
| 1270 | Recombinant Yersinia YopT leads to uncoupling of RhoA-effector interaction. <b>2001</b> , 69, 7535-43   | 47  |
| 1269 | Activation of rho GTPases by cytotoxic necrotizing factor 1 induces macropinocytosis and scavenging activity in epithelial cells. <b>2001</b> , 12, 2061-73   | 73  |
| 1268 | Regulation of tight junction permeability and occludin phosphorylation by RhoA-p160ROCK-dependent and -independent mechanisms. <b>2001</b> , 276, 10423-31  | 241 |
| 1267 | Tiam1 overexpression potentiates heregulin-induced lymphoid enhancer factor-1/beta -catenin nuclear signaling in breast cancer cells by modulating the intercellular stability. <b>2001</b> , 276, 28443-50 | 66  |
| 1266 | Identification of a gephyrin-binding motif in the GDP/GTP exchange factor collybistin. <b>2001</b> , 382, 1455-62   | 38  |
| 1265 | Activation of LIM kinases by myotonic dystrophy kinase-related Cdc42-binding kinase alpha. <b>2001</b> , 276, 23092-6   | 77  |
| 1264 | Rho GTPases as modulators of the estrogen receptor transcriptional response. <b>2001</b> , 276, 3231-7  | 73  |
| 1263 | Kinectin is a key effector of RhoG microtubule-dependent cellular activity. <b>2001</b> , 21, 8022-34   | 69  |
| 1262 | Cadherin engagement regulates Rho family GTPases. <b>2001</b> , 276, 33305-8  | 337 |

|      |   |         |
|------|---|---------|
| 1261 | Rac regulates vascular endothelial growth factor stimulated motility. <b>2001</b> , 8, 1-13   | 63      |
| 1260 | G(i)-mediated Cas tyrosine phosphorylation in vascular endothelial cells stimulated with sphingosine 1-phosphate: possible involvement in cell motility enhancement in cooperation with Rho-mediated pathways. <b>2001</b> , 276, 5274-80 | 54      |
| 1259 | Evaluation of the process for superoxide production by NADPH oxidase in human neutrophils: evidence for cytoplasmic origin of superoxide. <b>2001</b> , 6, 27-36  | 46      |
| 1258 | Factors controlling axonal and dendritic arbors. <b>2001</b> , 205, 77-147  | 4       |
| 1257 | The small GTPase Rac interacts with ubiquitination complex proteins Cullin-1 and CDC23. <b>2001</b> , 8, 127-33   | 12      |
| 1256 | Molecular genetics of X-linked mental retardation: a complex picture emerging. <b>2001</b> , 1, 220-5   | 1       |
| 1255 | A pivotal role of Rho GTPase in the regulation of morphology and function of dendritic cells. <b>2001</b> , 167, 3585-91  | 66      |
| 1254 | Redox signaling of the arteriolar myogenic response. <b>2001</b> , 89, 114-6  | 85      |
| 1253 | Role of the sphingosine-1-phosphate receptor EDG-1 in PDGF-induced cell motility. <i>Science</i> , <b>2001</b> , 291, 1800-3  | 333 393 |
| 1252 | Molecular cloning and characterization of a zinc finger protein involved in Id-1-stimulated mammary epithelial cell growth. <b>2001</b> , 276, 11852-8  | 25      |
| 1251 | Identification of potential mechanisms for regulation of p115 RhoGEF through analysis of endogenous and mutant forms of the exchange factor. <b>2001</b> , 276, 28897-905   | 66      |
| 1250 | The Rac GTPase-activating protein RotundRacGAP interferes with Drac1 and Dcdc42 signalling in <i>Drosophila melanogaster</i> . <b>2001</b> , 276, 35909-16  | 11      |
| 1249 | An inhibitory role of Rho in the vasopressin-mediated translocation of aquaporin-2 into cell membranes of renal principal cells. <b>2001</b> , 276, 20451-7   | 130     |
| 1248 | Leucine zipper-mediated homodimerization of the p21-activated kinase-interacting factor, beta Pix. Implication for a role in cytoskeletal reorganization. <b>2001</b> , 276, 10581-4  | 67      |
| 1247 | Rac affects invasion of human renal cell carcinomas by up-regulating tissue inhibitor of metalloproteinases (TIMP)-1 and TIMP-2 expression. <b>2001</b> , 276, 41889-97   | 82      |
| 1246 | Oligomerization of DH domain is essential for Dbl-induced transformation. <b>2001</b> , 21, 425-37  | 42      |
| 1245 | RhoA inhibits the nerve growth factor-induced Rac1 activation through Rho-associated kinase-dependent pathway. <b>2001</b> , 276, 18977-83  | 147     |
| 1244 | The Ras/Rac guanine nucleotide exchange factor mammalian Son-of-sevenless interacts with PACSIN 1/syndapin I, a regulator of endocytosis and the actin cytoskeleton. <b>2001</b> , 276, 26622-8   | 31      |

|      |   |     |
|------|---|-----|
| 1243 | A highly conserved protein family interacting with the fragile X mental retardation protein (FMRP) and displaying selective interactions with FMRP-related proteins FXR1P and FXR2P. <b>2001</b> , 98, 8844-9 | 264 |
| 1242 | Quantitative analysis of the effect of phosphoinositide interactions on the function of Dbl family proteins. <b>2001</b> , 276, 45868-75  | 78  |
| 1241 | A chemical inhibitor of N-WASP reveals a new mechanism for targeting protein interactions. <b>2001</b> , 98, 10624-9  | 82  |
| 1240 | Biochemical and biological characterization of a human Rac2 GTPase mutant associated with phagocytic immunodeficiency. <b>2001</b> , 276, 15929-38  | 78  |
| 1239 | Pleiotropic effects of Pasteurella multocida toxin are mediated by Gq-dependent and -independent mechanisms. involvement of Gq but not G11. <b>2001</b> , 276, 3840-5   | 89  |
| 1238 | Smooth muscle differentiation marker gene expression is regulated by RhoA-mediated actin polymerization. <b>2001</b> , 276, 341-7   | 300 |
| 1237 | The nonreceptor tyrosine kinase ACK2, a specific target for Cdc42 and a negative regulator of cell growth and focal adhesion complexes. <b>2001</b> , 276, 43987-93   | 26  |
| 1236 | Role of p190RhoGAP in beta 2 integrin regulation of RhoA in human neutrophils. <b>2001</b> , 166, 6311-22   | 38  |
| 1235 | The functional role of rho and rho-associated coiled-coil forming protein kinase in eotaxin signaling of eosinophils. <b>2001</b> , 167, 4609-15  | 55  |
| 1234 | Rac and phosphatidylinositol 3-kinase regulate the protein kinase B in Fc epsilon RI signaling in RBL 2H3 mast cells. <b>2001</b> , 166, 1627-34  | 37  |
| 1233 | Stromal cell-derived factor-1-induced LFA-1 activation during in vivo migration of T cell hybridoma cells requires Gq/11, RhoA, and myosin, as well as Gi and Cdc42. <b>2001</b> , 166, 4293-301              | 43  |
| 1232 | Tissue-specific GATA factors are transcriptional effectors of the small GTPase RhoA. <b>2001</b> , 15, 2702-19  | 181 |
| 1231 | SopE and SopE2 from Salmonella typhimurium activate different sets of RhoGTPases of the host cell. <b>2001</b> , 276, 34035-40  | 175 |
| 1230 | Lysophosphatidic acid antagonizes the morphoregulatory effects of the luteinizing hormone on luteal cells: possible role of small Rho-G-proteins. <b>2001</b> , 65, 180-7                                     | 18  |
| 1229 | Activation of RhoA and ROCK are essential for detachment of migrating leukocytes. <b>2001</b> , 12, 2137-45   | 211 |
| 1228 | Ras controls tumor necrosis factor receptor-associated factor (TRAF)6-dependent induction of nuclear factor-kappa b. Selective regulation through receptor signaling components. <b>2001</b> , 276, 6280-8    | 26  |
| 1227 | The LD4 motif of paxillin regulates cell spreading and motility through an interaction with paxillin kinase linker (PKL). <b>2001</b> , 154, 161-76   | 156 |
| 1226 | The angiogenic factors Cyr61 and connective tissue growth factor induce adhesive signaling in primary human skin fibroblasts. <b>2001</b> , 276, 10443-52   | 240 |

|      |   |     |
|------|---|-----|
| 1225 | Identification of a carboxyl-terminal diaphanous-related formin homology protein autoregulatory domain. <b>2001</b> , 276, 2824-30  | 278 |
| 1224 | Constitutive activation of NF-kappa B and secretion of interleukin-8 induced by the G protein-coupled receptor of Kaposi's sarcoma-associated herpesvirus involve G alpha(13) and RhoA. <b>2001</b> , 276, 45979-87 | 92  |
| 1223 | Activation of protein kinase D by signaling through Rho and the alpha subunit of the heterotrimeric G protein G13. <b>2001</b> , 276, 38619-27  | 82  |
| 1222 | Thermodynamics of Ras/effector and Cdc42/effector interactions probed by isothermal titration calorimetry. <b>2001</b> , 276, 23914-21  | 59  |
| 1221 | Netrin stimulates tyrosine phosphorylation of the UNC-5 family of netrin receptors and induces Shp2 binding to the RCM cytodomain. <b>2001</b> , 276, 40917-25  | 54  |
| 1220 | Regulation of Rac and Cdc42 pathways by G(i) during lysophosphatidic acid-induced cell spreading. <b>2001</b> , 276, 6846-52  | 47  |
| 1219 | Purification and characterization of human laminin-8. Laminin-8 stimulates cell adhesion and migration through alpha3beta1 and alpha6beta1 integrins. <b>2001</b> , 276, 17550-8                                    | 134 |
| 1218 | Layilin, a novel integral membrane protein, is a hyaluronan receptor. <b>2001</b> , 12, 891-900   | 102 |
| 1217 | Implication of a small GTPase Rac1 in the activation of c-Jun N-terminal kinase and heat shock factor in response to heat shock. <b>2001</b> , 276, 1889-95   | 41  |
| 1216 | Rho-kinase--mediated contraction of isolated stress fibers. <b>2001</b> , 153, 569-84   | 265 |
| 1215 | The insert region of RhoA is essential for Rho kinase activation and cellular transformation. <b>2001</b> , 21, 5287-98   | 33  |
| 1214 | Regulation of CDC42 GTPase by proline-rich tyrosine kinase 2 interacting with PSGAP, a novel pleckstrin homology and Src homology 3 domain containing rhoGAP protein. <b>2001</b> , 152, 971-84                     | 98  |
| 1213 | Low pH-induced formation of ion channels by clostridium difficile toxin B in target cells. <b>2001</b> , 276, 10670-6   | 116 |
| 1212 | Clostridium difficile toxins disrupt epithelial barrier function by altering membrane microdomain localization of tight junction proteins. <b>2001</b> , 69, 1329-36  | 251 |
| 1211 | RAC1 regulates adherens junctions through endocytosis of E-cadherin. <b>2001</b> , 12, 847-62   | 182 |
| 1210 | The intersectin 2 adaptor links Wiskott Aldrich Syndrome protein (WASp)-mediated actin polymerization to T cell antigen receptor endocytosis. <b>2001</b> , 194, 1777-87  | 116 |
| 1209 | The Caenorhabditis elegans homolog of FGD1, the human Cdc42 GEF gene responsible for faciogenital dysplasia, is critical for excretory cell morphogenesis. <b>2001</b> , 10, 3049-62                                | 26  |
| 1208 | Analysis of small GTPase signaling pathways using p21-activated kinase mutants that selectively couple to Cdc42. <b>2001</b> , 276, 40606-13  | 27  |

|      |   |      |
|------|---|------|
| 1207 | Cdc42-dependent modulation of tight junctions and membrane protein traffic in polarized Madin-Darby canine kidney cells. <b>2001</b> , 12, 2257-74                                    | 110  |
| 1206 | Isolation and characterization of effector-loop mutants of CDC42 in yeast. <b>2001</b> , 12, 1239-55  | 45   |
| 1205 | Role for p27(Kip1) in Vascular Smooth Muscle Cell Migration. <b>2001</b> , 103, 2967-72   | 159  |
| 1204 | Modulation of oncogenic DBL activity by phosphoinositol phosphate binding to pleckstrin homology domain. <b>2001</b> , 276, 19524-31  | 62   |
| 1203 | Phospholipase D activity is required for actin stress fiber formation in fibroblasts. <b>2001</b> , 21, 4055-66   | 96   |
| 1202 | p190RhoGEF Binds to a destabilizing element in the 3' untranslated region of light neurofilament subunit mRNA and alters the stability of the transcript. <b>2001</b> , 276, 32046-50 | 46   |
| 1201 | The CDC42 homolog of the dimorphic fungus <i>Penicillium marneffei</i> is required for correct cell polarization during growth but not development. <b>2001</b> , 183, 3447-57        | 72   |
| 1200 | PKN delays mitotic timing by inhibition of Cdc25C: Possible involvement of PKN in the regulation of cell division. <b>2001</b> , 98, 125-129  | 27   |
| 1199 | Hic-5-reduced cell spreading on fibronectin: competitive effects between paxillin and Hic-5 through interaction with focal adhesion kinase. <b>2001</b> , 21, 5332-45                 | 88   |
| 1198 | Tat1, a novel sulfate transporter specifically expressed in human male germ cells and potentially linked to rhoGTPase signaling. <b>2001</b> , 276, 20309-15                          | 65   |
| 1197 | Microtubule disruption in keratinocytes induces cell-cell adhesion through activation of endogenous E-cadherin. <b>2001</b> , 12, 1983-93   | 25   |
| 1196 | Specific activation of LIM kinase 2 via phosphorylation of threonine 505 by ROCK, a Rho-dependent protein kinase. <b>2001</b> , 276, 670-6  | 233  |
| 1195 | Autoinhibition mechanism of proto-Dbl. <b>2001</b> , 21, 1463-74  | 69   |
| 1194 | TcRho1, a farnesylated Rho family homologue from <i>Trypanosoma cruzi</i> : cloning, trans-splicing, and prenylation studies. <b>2001</b> , 276, 29711-8                              | 31   |
| 1193 | Pleiotropic effects of 3-hydroxy-3-methylglutaryl coenzyme a reductase inhibitors. <b>2001</b> , 21, 1712-9   | 1066 |
| 1192 | Transactivation by the p65 subunit of NF-kappaB in response to interleukin-1 (IL-1) involves MyD88, IL-1 receptor-associated kinase 1, TRAF-6, and Rac1. <b>2001</b> , 21, 4544-52    | 74   |
| 1191 | Laminin-10/11 and fibronectin differentially regulate integrin-dependent Rho and Rac activation via p130(Cas)-CrkII-DOCK180 pathway. <b>2001</b> , 276, 27090-7                       | 136  |
| 1190 | The insert region of Rac1 is essential for membrane ruffling but not cellular transformation. <b>2001</b> , 21, 2847-57   | 34   |

|      |  |     |
|------|--|-----|
| 1189 | Identification of a novel interaction of 14-3-3 with p190RhoGEF. <b>2001</b> , 276, 41318-24   | 69  |
| 1188 | Sphingosine 1-phosphate-induced endothelial cell migration requires the expression of EDG-1 and EDG-3 receptors and Rho-dependent activation of alpha vbeta3- and beta1-containing integrins. <b>2001</b> , 276, 11830-7 | 228 |
| 1187 | AKAP-Lbc anchors protein kinase A and nucleates Galpha 12-selective Rho-mediated stress fiber formation. <b>2001</b> , 276, 44247-57   | 201 |
| 1186 | Filopodial initiation and a novel filament-organizing center, the focal ring. <b>2001</b> , 12, 2378-95  | 44  |
| 1185 | Expression of functional chemokine receptors CXCR3 and CXCR4 on human melanoma cells. <b>2001</b> , 276, 45098-105   | 188 |
| 1184 | Lysine and polyamines are substrates for transglutamination of Rho by the Bordetella dermonecrotic toxin. <b>2001</b> , 69, 7663-70  | 19  |
| 1183 | ATP-dependent membrane assembly of F-actin facilitates membrane fusion. <b>2001</b> , 12, 155-70   | 97  |
| 1182 | Tumor metastasis suppressor nm23H1 regulates Rac1 GTPase by interaction with Tiam1. <b>2001</b> , 98, 4385-90  | 162 |
| 1181 | Hyaluronan promotes CD44v3-Vav2 interaction with Grb2-p185(HER2) and induces Rac1 and Ras signaling during ovarian tumor cell migration and growth. <b>2001</b> , 276, 48679-92  | 150 |
| 1180 | Rho and Rho-associated kinase modulate the tyrosine kinase PYK2 in T-cells through regulation of the activity of the integrin LFA-1. <b>2001</b> , 276, 40518-27   | 48  |
| 1179 | Dynamic localization of rop GTPases to the tonoplast during vacuole development. <b>2001</b> , 125, 241-51   | 19  |
| 1178 | Intermolecular and intramolecular interactions regulate catalytic activity of myotonic dystrophy kinase-related Cdc42-binding kinase alpha. <b>2001</b> , 21, 2767-78  | 70  |
| 1177 | The activity of guanine exchange factor NET1 is essential for transforming growth factor-beta-mediated stress fiber formation. <b>2001</b> , 276, 15362-8  | 94  |
| 1176 | Ras-related GTPase Rhob represses NF-kappaB signaling. <b>2001</b> , 276, 3115-22  | 54  |
| 1175 | Oligomerization-dependent regulation of motility and morphogenesis by the collagen XVIII NC1/endostatin domain. <b>2001</b> , 152, 1233-46   | 129 |
| 1174 | Deletion of the Src homology 3 domain and C-terminal proline-rich sequences in Bcr-Abl prevents Abl interactor 2 degradation and spontaneous cell migration and impairs leukemogenesis. <b>2001</b> , 276, 28954-60      | 31  |
| 1173 | Rac2 is an essential regulator of neutrophil nicotinamide adenine dinucleotide phosphate oxidase activation in response to specific signaling pathways. <b>2001</b> , 166, 1223-32                                       | 164 |
| 1172 | The Dictyostelium discoideum family of Rho-related proteins. <b>2001</b> , 29, 1068-79   | 81  |



|      |  |     |
|------|--|-----|
| 1171 | Contact interactions between epitheliocytes and fibroblasts: formation of heterotypic cadherin-containing adhesion sites is accompanied by local cytoskeletal reorganization. <b>2001</b> , 98, 8632-7 | 48  |
| 1170 | Vav2 is required for cell spreading. <b>2001</b> , 154, 177-86   | 89  |
| 1169 | Wrch-1, a novel member of the Rho gene family that is regulated by Wnt-1. <b>2001</b> , 15, 1796-807   | 164 |
| 1168 | A RHO GTPase-mediated pathway is required during P cell migration in <i>Caenorhabditis elegans</i> . <b>2001</b> , 98, 13132-7   | 54  |
| 1167 | Phosphorylation of a novel myosin binding subunit of protein phosphatase 1 reveals a conserved mechanism in the regulation of actin cytoskeleton. <b>2001</b> , 276, 21209-16                          | 113 |
| 1166 | Insulin-stimulated GLUT4 translocation in adipocytes is dependent upon cortical actin remodeling. <b>2001</b> , 276, 42436-44  | 204 |
| 1165 | A novel C3-like ADP-ribosyltransferase from <i>Staphylococcus aureus</i> modifying RhoE and Rnd3. <b>2001</b> , 276, 9537-42   | 77  |
| 1164 | Rop GTPase-dependent dynamics of tip-localized F-actin controls tip growth in pollen tubes. <b>2001</b> , 152, 1019-32   | 369 |
| 1163 | Assembly of scaffold-mediated complexes containing Cdc42p, the exchange factor Cdc24p, and the effector Cla4p required for cell cycle-regulated phosphorylation of Cdc24p. <b>2001</b> , 276, 7176-86  | 155 |
| 1162 | Rac mediates cytoskeletal rearrangements and increased cell motility induced by urokinase-type plasminogen activator receptor binding to vitronectin. <b>2001</b> , 152, 1145-57                       | 162 |
| 1161 | Identification and characterization of a novel MAP kinase kinase kinase, MLTK. <b>2001</b> , 276, 4276-86  | 91  |
| 1160 | A role for the cytoskeleton-associated protein palladin in neurite outgrowth. <b>2001</b> , 12, 2721-9   | 60  |
| 1159 | Occludin and claudin-1 concentrate in the midbody of immortalized mouse hepatocytes during cell division. <b>2001</b> , 49, 333-40   | 11  |
| 1158 | Architectural transcription factor HMGI(Y) promotes tumor progression and mesenchymal transition of human epithelial cells. <b>2001</b> , 21, 575-94   | 211 |
| 1157 | Resting murine neutrophils express functional alpha 4 integrins that signal through Src family kinases. <b>2001</b> , 166, 4115-23   | 49  |
| 1156 | Regulation of gene expression by the small GTPase Rho through the ERK6 (p38 gamma) MAP kinase pathway. <b>2001</b> , 15, 535-53  | 138 |
| 1155 | Direct interaction of insulin-like growth factor-1 receptor with leukemia-associated RhoGEF. <b>2001</b> , 155, 809-20   | 96  |
| 1154 | Activation and association of the Tec tyrosine kinase with the human prolactin receptor: mapping of a Tec/Vav1-receptor binding site. <b>2001</b> , 15, 832-41   | 33  |

|      |  |     |
|------|--|-----|
| 1153 | Process extension and myelin sheet formation in maturing oligodendrocytes. <b>2001</b> , 132, 115-30   | 17  |
| 1152 | An ADP-ribosylation factor GTPase-activating protein Git2-short/KIAA0148 is involved in subcellular localization of paxillin and actin cytoskeletal organization. <b>2001</b> , 12, 645-62 | 79  |
| 1151 | Adhesion of CD34+ marrow precursors to human stroma is related to alphaSM actin expression by human marrow myofibroblasts. <b>2001</b> , 10, 291-302                                       | 3   |
| 1150 | Homing of human hematopoietic stem and progenitor cells: new insights, new challenges?. <b>2001</b> , 10, 725-38   | 41  |
| 1149 | Pharmacology of 3-hydroxy-3-methylglutaryl-coenzyme A reductase inhibitors (statins), including rosuvastatin and pitavastatin. <b>2002</b> , 42, 835-45                                    | 64  |
| 1148 | 11 Cell transfection, permeabilization and microinjection as means to study Shigella-induced cytoskeletal reorganization. <b>2002</b> , 31, 207-223  |     |
| 1147 | Guanine nucleotide exchange factors for Rho GTPases: turning on the switch. <b>2002</b> , 16, 1587-609   | 938 |
| 1146 | The Arabidopsis Rop2 GTPase is a positive regulator of both root hair initiation and tip growth. <b>2002</b> , 14, 763-76  | 343 |
| 1145 | Rho-kinase inhibitors: pharmacomodulations on the lead compound Y-32885. <b>2002</b> , 17, 381-90  | 12  |
| 1144 | Plexin B regulates Rho through the guanine nucleotide exchange factors leukemia-associated Rho GEF (LARG) and PDZ-RhoGEF. <b>2002</b> , 277, 43115-20                                      | 176 |
| 1143 | Genetic effects on human cognition: lessons from the study of mental retardation syndromes. <b>2002</b> , 72, 287-96   | 14  |
| 1142 | The hematopoiesis-specific GTP-binding protein RhoH is GTPase deficient and modulates activities of other Rho GTPases by an inhibitory function. <b>2002</b> , 22, 1158-71                 | 119 |
| 1141 | Selective activation of small GTPase RhoA by tyrosine kinase Etk through its pleckstrin homology domain. <b>2002</b> , 277, 30066-71   | 50  |
| 1140 | DEF-1/ASAP1 is a GTPase-activating protein (GAP) for ARF1 that enhances cell motility through a GAP-dependent mechanism. <b>2002</b> , 277, 7962-9   | 68  |
| 1139 | Defective dendrite elongation but normal fertility in mice lacking the Rho-like GTPase activator Dbl. <b>2002</b> , 22, 3140-8   | 29  |
| 1138 | Localized suppression of RhoA activity by Tyr31/118-phosphorylated paxillin in cell adhesion and migration. <b>2002</b> , 159, 673-83  | 154 |
| 1137 | Regulation of protein transport from the Golgi complex to the endoplasmic reticulum by CDC42 and N-WASP. <b>2002</b> , 13, 866-79  | 138 |
| 1136 | Cell surface-localized nucleolin is a eukaryotic receptor for the adhesin intimin-gamma of enterohemorrhagic Escherichia coli O157:H7. <b>2002</b> , 277, 2876-85                          | 152 |

|      |  |     |
|------|--|-----|
| 1135 | Association of Lbc Rho guanine nucleotide exchange factor with alpha-catenin-related protein, alpha-catulin/CTNNAL1, supports serum response factor activation. <b>2002</b> , 277, 45361-70  | 44  |
| 1134 | The small GTPase Rac3 interacts with the integrin-binding protein CIB and promotes integrin alpha(IIb)beta(3)-mediated adhesion and spreading. <b>2002</b> , 277, 8321-8   | 54  |
| 1133 | RhoG signals in parallel with Rac1 and Cdc42. <b>2002</b> , 277, 47810-7   | 89  |
| 1132 | Trans-interactions of nectins induce formation of filopodia and Lamellipodia through the respective activation of Cdc42 and Rac small G proteins. <b>2002</b> , 277, 50749-55  | 88  |
| 1131 | Rac regulates endothelial morphogenesis and capillary assembly. <b>2002</b> , 13, 2474-85  | 146 |
| 1130 | Negative regulation of rho signaling by insulin and its impact on actin cytoskeleton organization in vascular smooth muscle cells: role of nitric oxide and cyclic guanosine monophosphate signaling pathways. <b>2002</b> , 51, 2256-63 | 55  |
| 1129 | Cdc42 and Rac1 regulate late events in Salmonella typhimurium-induced interleukin-8 secretion from polarized epithelial cells. <b>2002</b> , 277, 51025-32   | 28  |
| 1128 | Nir2, a novel regulator of cell morphogenesis. <b>2002</b> , 22, 2650-62   | 16  |
| 1127 | Regulation of proto-Dbl by intracellular membrane targeting and protein stability. <b>2002</b> , 277, 19745-53   | 27  |
| 1126 | ROCK and mDia1 antagonize in Rho-dependent Rac activation in Swiss 3T3 fibroblasts. <b>2002</b> , 157, 819-30  | 177 |
| 1125 | Adhesion-related kinase repression of gonadotropin-releasing hormone gene expression requires Rac activation of the extracellular signal-regulated kinase pathway. <b>2002</b> , 277, 38133-40   | 33  |
| 1124 | Role of Rho family GTPases in epithelial morphogenesis. <b>2002</b> , 16, 1032-54  | 181 |
| 1123 | Pseudomonas aeruginosa ExoT acts in vivo as a GTPase-activating protein for RhoA, Rac1, and Cdc42. <b>2002</b> , 70, 2198-205  | 77  |
| 1122 | The RhoA-binding protein, rhotilin-2, regulates actin cytoskeleton organization. <b>2002</b> , 277, 43924-32   | 60  |
| 1121 | Tensin1 and a previously undocumented family member, tensin2, positively regulate cell migration. <b>2002</b> , 99, 733-8  | 114 |
| 1120 | Role of MLK3-mediated activation of p70 S6 kinase in Rac1 transformation. <b>2002</b> , 277, 4770-7  | 18  |
| 1119 | The semaphorin receptor plexin-B1 signals through a direct interaction with the Rho-specific nucleotide exchange factor, LARG. <b>2002</b> , 99, 12085-90  | 145 |
| 1118 | Signal-regulatory protein alpha-CD47 interactions are required for the transmigration of monocytes across cerebral endothelium. <b>2002</b> , 168, 5832-9  | 113 |

|      |  |     |
|------|--|-----|
| 1117 | Modulation of the F-actin cytoskeleton by c-Abl tyrosine kinase in cell spreading and neurite extension. <b>2002</b> , 156, 879-92   | 135 |
| 1116 | Coordinate interactions of Csk, Src, and Syk kinases with [alpha]IIb[beta]3 initiate integrin signaling to the cytoskeleton. <b>2002</b> , 157, 265-75   | 348 |
| 1115 | Evolutionary conservation of microtubule-capture mechanisms. <b>2002</b> , 3, 296-304  | 140 |
| 1114 | Rho GTPases in human breast tumours: expression and mutation analyses and correlation with clinical parameters. <b>2002</b> , 87, 635-44   | 286 |
| 1113 | A growing family of guanine nucleotide exchange factors is responsible for activation of Ras-family GTPases. <b>2002</b> , 71, 391-444   | 213 |
| 1112 | Basic fibroblast growth factor-induced translocation of p21-activated kinase to the membrane is independent of phospholipase C-gamma1 in the differentiation of PC12 cells. <b>2002</b> , 34, 172-6  | 3   |
| 1111 | Effects of direct current electric fields on cell migration and actin filament distribution in bovine vascular endothelial cells. <b>2002</b> , 39, 391-404  | 146 |
| 1110 | Roles of microtubule dynamics and small GTPase Rac in endothelial cell migration and lamellipodium formation under flow. <b>2002</b> , 39, 465-76  | 67  |
| 1109 | Site-specific alteration of actin assembly visualized in living renal epithelial cells during ATP depletion. <b>2002</b> , 13, 2667-80   | 29  |
| 1108 | Retarded intracellular lipid transport associated with reduced expression of Cdc42, a member of Rho-GTPases, in human aged skin fibroblasts: a possible function of Cdc42 in mediating intracellular lipid transport. <b>2002</b> , 22, 1899-904 | 18  |
| 1107 | Remodeling of organelle-bound actin is required for yeast vacuole fusion. <b>2002</b> , 158, 669-79  | 141 |
| 1106 | Inhibition of protein geranylgeranylation and RhoA/RhoA kinase pathway induces apoptosis in human endothelial cells. <b>2002</b> , 277, 15309-16   | 139 |
| 1105 | Roles of Rho-associated kinase and myosin light chain kinase in morphological and migratory defects of focal adhesion kinase-null cells. <b>2002</b> , 277, 33857-63   | 118 |
| 1104 | The chemokine stromal cell-derived factor-1 alpha modulates alpha 4 beta 7 integrin-mediated lymphocyte adhesion to mucosal addressin cell adhesion molecule-1 and fibronectin. <b>2002</b> , 168, 5268-77                                       | 71  |
| 1103 | The chemokine ESkin/CCL27 displays novel modes of intracrine and paracrine function. <b>2002</b> , 169, 1387-94  | 31  |
| 1102 | Chemoattractant-stimulated Rac activation in wild-type and Rac2-deficient murine neutrophils: preferential activation of Rac2 and Rac2 gene dosage effect on neutrophil functions. <b>2002</b> , 169, 5043-51                                    | 123 |
| 1101 | The hematopoietic system-specific minor histocompatibility antigen HA-1 shows aberrant expression in epithelial cancer cells. <b>2002</b> , 196, 359-68  | 80  |
| 1100 | Dynamics of ligand-induced, Rac1-dependent anchoring of cadherins to the actin cytoskeleton. <b>2002</b> , 157, 469-79   | 111 |

|      |   |     |
|------|---|-----|
| 1099 | Plakoglobin is required for maintenance of the cortical actin skeleton in early <i>Xenopus</i> embryos and for <i>cdc42</i> -mediated wound healing. <b>2002</b> , 158, 695-708   | 47  |
| 1098 | <i>Pitx2a</i> expression alters actin-myosin cytoskeleton and migration of HeLa cells through Rho GTPase signaling. <b>2002</b> , 13, 683-97  | 57  |
| 1097 | <i>Vav3</i> is regulated during the cell cycle and effects cell division. <b>2002</b> , 99, 4313-8  | 34  |
| 1096 | Importance of free actin filament barbed ends for Arp2/3 complex function in platelets and fibroblasts. <b>2002</b> , 99, 16782-7   | 72  |
| 1095 | The rat homologue of Wiskott-Aldrich syndrome protein (WASP)-interacting protein (WIP) associates with actin filaments, recruits N-WASP from the nucleus, and mediates mobilization of actin from stress fibers in favor of filopodia formation. <b>2002</b> , 277, 87-95 | 35  |
| 1094 | Regulation of the Cool/Pix proteins: key binding partners of the Cdc42/Rac targets, the p21-activated kinases. <b>2002</b> , 277, 5644-50   | 87  |
| 1093 | Rho-dependent agonist-induced spatio-temporal change in myosin phosphorylation in smooth muscle cells. <b>2002</b> , 277, 725-34  | 43  |
| 1092 | Active Rho kinase (ROK-alpha ) associates with insulin receptor substrate-1 and inhibits insulin signaling in vascular smooth muscle cells. <b>2002</b> , 277, 6214-22  | 137 |
| 1091 | Flt-1-mediated down-regulation of endothelial cell proliferation through pertussis toxin-sensitive G proteins, beta gamma subunits, small GTPase CDC42, and partly by Rac-1. <b>2002</b> , 277, 4003-9  | 48  |
| 1090 | IQGAP1 is a component of Cdc42 signaling to the cytoskeleton. <b>2002</b> , 277, 24753-63   | 120 |
| 1089 | Phosphorylation of p85 beta PIX, a Rac/Cdc42-specific guanine nucleotide exchange factor, via the Ras/ERK/PAK2 pathway is required for basic fibroblast growth factor-induced neurite outgrowth. <b>2002</b> , 277, 44417-30  | 105 |
| 1088 | Intracellular targeting of protein kinases and phosphatases. <b>2002</b> , 51 Suppl 3, S385-8   | 38  |
| 1087 | Genomic analysis of homotypic vacuole fusion. <b>2002</b> , 13, 782-94  | 142 |
| 1086 | Novel mechanism for gonadotropin-releasing hormone neuronal migration involving Gas6/Ark signaling to p38 mitogen-activated protein kinase. <b>2002</b> , 22, 599-613   | 104 |
| 1085 | VE-cadherin regulates endothelial actin activating Rac and increasing membrane association of Tiam. <b>2002</b> , 13, 1175-89   | 215 |
| 1084 | Fyn tyrosine kinase is a downstream mediator of Rho/PRK2 function in keratinocyte cell-cell adhesion. <b>2002</b> , 156, 137-48   | 147 |
| 1083 | Characterization of new cell permeable C3-like proteins that inactivate Rho and stimulate neurite outgrowth on inhibitory substrates. <b>2002</b> , 277, 32820-9  | 104 |
| 1082 | Association of PI-3 kinase with PAK1 leads to actin phosphorylation and cytoskeletal reorganization. <b>2002</b> , 13, 2946-62  | 107 |

|      |   |     |
|------|---|-----|
| 1081 | Requirement of functional ryanodine receptor type 3 for astrocyte migration. <b>2002</b> , 16, 84-6   | 95  |
| 1080 | Knowing how to navigate: mechanisms of semaphorin signaling in the nervous system. <b>2002</b> , 2002, re1  | 69  |
| 1079 | Nir2, a human homolog of Drosophila melanogaster retinal degeneration B protein, is essential for cytokinesis. <b>2002</b> , 22, 5064-75  | 40  |
| 1078 | Rac2, a hematopoiesis-specific Rho GTPase, specifically regulates mast cell protease gene expression in bone marrow-derived mast cells. <b>2002</b> , 22, 7645-57   | 49  |
| 1077 | The Arabidopsis SPIKE1 gene is required for normal cell shape control and tissue development. <b>2002</b> , 14, 101-18  | 187 |
| 1076 | The HMG-CoA reductase inhibitor lovastatin protects cells from the antineoplastic drugs doxorubicin and etoposide. <b>2002</b> , 10, 473  | 4   |
| 1075 | Interaction of the small GTPase Rac3 with NRBP, a protein with a kinase-homology domain. <b>2002</b> , 9, 451   | 1   |
| 1074 | Phosphatidylinositol 4-phosphate 5-kinase is essential for ROCK-mediated neurite remodeling. <b>2002</b> , 277, 17226-30  | 66  |
| 1073 | Characterization of RhoA-binding kinase ROKalpha implication of the pleckstrin homology domain in ROKalpha function using region-specific antibodies. <b>2002</b> , 277, 12680-8  | 86  |
| 1072 | Rac1 and Cdc42 but not RhoA or Rho kinase activities are required for neurite outgrowth induced by the Netrin-1 receptor DCC (deleted in colorectal cancer) in N1E-115 neuroblastoma cells. <b>2002</b> , 277, 15207-14 | 144 |
| 1071 | STAT3 deficiency in keratinocytes leads to compromised cell migration through hyperphosphorylation of p130(cas). <b>2002</b> , 277, 12931-6   | 50  |
| 1070 | The Rho exchange factor Net1 is regulated by nuclear sequestration. <b>2002</b> , 277, 14581-8  | 59  |
| 1069 | Constitutive JNK activation in NIH 3T3 fibroblasts induces a partially transformed phenotype. <b>2002</b> , 277, 29510-8  | 32  |
| 1068 | Stimulus-specific requirements for MAP3 kinases in activating the JNK pathway. <b>2002</b> , 277, 49105-10  | 72  |
| 1067 | Rac activation upon cell-cell contact formation is dependent on signaling from the epidermal growth factor receptor. <b>2002</b> , 277, 36962-9   | 109 |
| 1066 | cGMP-mediated signaling via cGKIalpha is required for the guidance and connectivity of sensory axons. <b>2002</b> , 159, 489-98   | 93  |
| 1065 | The full complement of yeast Ypt/Rab-GTPases and their involvement in exo- and endocytic trafficking. <b>2000</b> , 34, 133-73  | 16  |
| 1064 | Farnesylated RhoB prevents cell cycle arrest and actin cytoskeleton disruption caused by the geranylgeranyltransferase I inhibitor GGTI-298. <b>2002</b> , 1, 430-7   | 22  |

|      |  |     |
|------|--|-----|
| 1063 | Rho family GTPases as key regulators for neuronal network formation. <b>2002</b> , 132, 157-66   | 99  |
| 1062 | Rho-kinase as a novel therapeutic target in treatment of cardiovascular diseases. <b>2002</b> , 39, 319-27   | 236 |
| 1061 | Opposing effects of PKCalpha and PKCepsilon on basolateral membrane dynamics in intestinal epithelia. <b>2002</b> , 283, C1548-56                                  | 39  |
| 1060 | Migration of nerve growth cones requires detergent-resistant membranes in a spatially defined and substrate-dependent manner. <b>2002</b> , 159, 1097-108          | 73  |
| 1059 | Impact of HMG CoA reductase inhibition on small GTPases in the heart. <b>2002</b> , 53, 911-20   | 153 |
| 1058 | Parathyroid hormone inhibits c-Jun N-terminal kinase activity in rat osteoblastic cells by a protein kinase A-dependent pathway. <b>2002</b> , 143, 1880-8         | 23  |
| 1057 | RhoA activation promotes transformation and loss of thyroid cell differentiation interfering with thyroid transcription factor-1 activity. <b>2002</b> , 16, 33-44 | 6   |
| 1056 | Shear stress-mediated cytoskeletal remodeling and cortactin translocation in pulmonary endothelial cells. <b>2002</b> , 26, 453-64                                 | 174 |
| 1055 | Determination of the activity of Rho-like GTPases in cells. <b>2002</b> , 189, 99-109  | 11  |
| 1054 | Mechanisms through which Sos-1 coordinates the activation of Ras and Rac. <b>2002</b> , 156, 125-36  | 150 |
| 1053 | alpha4beta1 integrin regulates lamellipodia protrusion via a focal complex/focal adhesion-independent mechanism. <b>2002</b> , 13, 3203-17                         | 53  |
| 1052 | Novel membrane traffic steps regulate the exocytosis of the Menkes disease ATPase. <b>2002</b> , 11, 2855-66   | 43  |
| 1051 | Growth factor-induced cell motility in tumor invasion. <b>2002</b> , 41, 124-30  | 114 |
| 1050 | A cell-specific, prenylation-independent mechanism regulates targeting of type II RACs. <b>2002</b> , 14, 2431-50  | 123 |
| 1049 | Small GTP-binding protein TC10 differentially regulates two distinct populations of filamentous actin in 3T3L1 adipocytes. <b>2002</b> , 13, 2334-46               | 82  |
| 1048 | Biology of Adenovirus Cell Entry. <b>2002</b> , 19-38  | 1   |
| 1047 | Antigen-stimulated activation of phospholipase D1b by Rac1, ARF6, and PKCalpha in RBL-2H3 cells. <b>2002</b> , 13, 1252-62   | 68  |
| 1046 | The N termini of focal adhesion kinase family members regulate substrate phosphorylation, localization, and cell morphology. <b>2002</b> , 277, 45644-54           | 32  |

|      |   |     |
|------|---|-----|
| 1045 | Cooperativity between the Ras-ERK and Rho-Rho kinase pathways in urokinase-type plasminogen activator-stimulated cell migration. <b>2002</b> , 277, 12479-85  | 76  |
| 1044 | Essential role of citron kinase in cytokinesis of spermatogenic precursors. <b>2002</b> , 115, 4819-26  | 48  |
| 1043 | Rapostlin is a novel effector of Rnd2 GTPase inducing neurite branching. <b>2002</b> , 277, 45428-34  | 70  |
| 1042 | Clostridium difficile toxin A alters in vitro-adherent neutrophil morphology and function. <b>2002</b> , 185, 1297-306  | 32  |
| 1041 | The urokinase plasminogen activator receptor in the regulation of the actin cytoskeleton and cell motility. <b>2002</b> , 383, 5-19   | 73  |
| 1040 | Inhibition of anchorage-independent growth of transformed NIH3T3 cells by epithelial protein lost in neoplasm (EPLIN) requires localization of EPLIN to actin cytoskeleton. <b>2002</b> , 13, 1408-16 | 42  |
| 1039 | 12 Modifications of small GTP-binding proteins by bacterial protein toxins. <b>2002</b> , 31, 225-244   | 3   |
| 1038 | The protein kinase A inhibitor H89 acts on cell morphology by inhibiting Rho kinase. <b>2002</b> , 300, 1000-7  | 73  |
| 1037 | Cytotoxic necrotizing factor-1 contributes to Escherichia coli K1 invasion of the central nervous system. <b>2002</b> , 277, 15607-12   | 127 |
| 1036 | PTP-PEST controls motility through regulation of Rac1. <b>2002</b> , 115, 4305-16   | 84  |
| 1035 | Crk adapter proteins promote an epithelial-mesenchymal-like transition and are required for HGF-mediated cell spreading and breakdown of epithelial adherens junctions. <b>2002</b> , 13, 1449-61     | 114 |
| 1034 | Nerve growth factor signals through TrkA, phosphatidylinositol 3-kinase, and Rac1 to inactivate RhoA during the initiation of neuronal differentiation of PC12 cells. <b>2002</b> , 277, 35840-6      | 93  |
| 1033 | Yeast protein kinases and the RHO1 exchange factor TUS1 are novel components of the cell integrity pathway in yeast. <b>2002</b> , 22, 1329-39  | 110 |
| 1032 | KDR stimulates endothelial cell migration through heterotrimeric G protein Gq/11-mediated activation of a small GTPase RhoA. <b>2002</b> , 277, 46791-8   | 89  |
| 1031 | Paxillin-dependent paxillin kinase linker and p21-activated kinase localization to focal adhesions involves a multistep activation pathway. <b>2002</b> , 13, 1550-65                                 | 141 |
| 1030 | Preferential and asymmetrical accumulation of a Rac small GTPase mRNA in differentiating xylem cells of Zinnia elegans. <b>2002</b> , 43, 1484-92   | 34  |
| 1029 | Host-pathogen interactions: the seduction of molecular cross talk. <b>2002</b> , 50 Suppl 3, III2-8   | 66  |
| 1028 | Characterization of STEF, a guanine nucleotide exchange factor for Rac1, required for neurite growth. <b>2002</b> , 277, 2860-8   | 71  |



|      |  |     |
|------|--|-----|
| 1027 | Tenascin-C modulates matrix contraction via focal adhesion kinase- and Rho-mediated signaling pathways. <b>2002</b> , 13, 3601-13  | 112 |
| 1026 | Grit, a GTPase-activating protein for the Rho family, regulates neurite extension through association with the TrkA receptor and N-Shc and CrkL/Crk adapter molecules. <b>2002</b> , 22, 8721-34 | 87  |
| 1025 | Migration of human hematopoietic progenitor cells across bone marrow endothelium is regulated by vascular endothelial cadherin. <b>2002</b> , 168, 588-96  | 84  |
| 1024 | Opposing roles of the extracellular signal-regulated kinase and p38 mitogen-activated protein kinase cascades in Ras-mediated downregulation of tropomyosin. <b>2002</b> , 22, 2304-17           | 62  |
| 1023 | Continual production of phosphatidic acid by phospholipase D is essential for antigen-stimulated membrane ruffling in cultured mast cells. <b>2002</b> , 13, 3730-46                             | 93  |
| 1022 | Embryonic lethality caused by apoptosis during gastrulation in mice lacking the gene of the ADP-ribosylation factor-related protein 1. <b>2002</b> , 22, 1488-94                                 | 35  |
| 1021 | Signal-mediated depolymerization of actin in pollen during the self-incompatibility response. <b>2002</b> , 14, 2613-26  | 155 |
| 1020 | Socius is a novel Rnd GTPase-interacting protein involved in disassembly of actin stress fibers. <b>2002</b> , 22, 2952-64   | 72  |
| 1019 | Leukemia-associated Rho guanine nucleotide exchange factor promotes G alpha q-coupled activation of RhoA. <b>2002</b> , 22, 4053-61  | 154 |
| 1018 | Mechanism of Clostridium difficile toxin A-induced apoptosis in T84 cells. <b>2002</b> , 186, 1438-47  | 92  |
| 1017 | The activity of the GTPase-activating protein CdGAP is regulated by the endocytic protein intersectin. <b>2002</b> , 277, 6366-73  | 66  |
| 1016 | Macrophage/microglia-specific protein Iba1 enhances membrane ruffling and Rac activation via phospholipase C-gamma -dependent pathway. <b>2002</b> , 277, 20026-32                               | 134 |
| 1015 | The integrin cytoplasmic domain-associated protein ICAP-1 binds and regulates Rho family GTPases during cell spreading. <b>2002</b> , 156, 377-87  | 52  |
| 1014 | High RhoA activity maintains the undifferentiated mesenchymal cell phenotype, whereas RhoA down-regulation by laminin-2 induces smooth muscle myogenesis. <b>2002</b> , 156, 893-903             | 79  |
| 1013 | Dynamics of cytoskeletal proteins during Fcgamma receptor-mediated phagocytosis in macrophages. <b>2002</b> , 13, 402-11   | 123 |
| 1012 | Sphingosine-1-phosphate, a platelet-derived lysophospholipid mediator, negatively regulates cellular Rac activity and cell migration in vascular smooth muscle cells. <b>2002</b> , 90, 325-32   | 200 |
| 1011 | PGF(2alpha)-induced contraction of cat esophageal and lower esophageal sphincter circular smooth muscle. <b>2002</b> , 283, G282-91  | 21  |
| 1010 | Dual effect of fluid shear stress on volume-regulated anion current in bovine aortic endothelial cells. <b>2002</b> , 282, C708-18   | 28  |

|      |   |     |
|------|---|-----|
| 1009 | RAC1-dependent regulation of cholinergically induced lamellar protrusive activity is independent of MAPKinase and attenuated by active p-JNK. <b>2002</b> , 13, 2443-6              | 3   |
| 1008 | Sphingosine 1-phosphate signaling in atherosclerosis and vascular biology. <b>2002</b> , 13, 489-95   | 43  |
| 1007 | Cross-talk unfolded: MARCKS proteins. <b>2002</b> , 362, 1-12   | 261 |
| 1006 | Expression and potential function of Rho family small G proteins in cells of the mammalian seminiferous epithelium. <b>2002</b> , 9, 189-204  | 11  |
| 1005 | Signaling through ZAP-70 is required for CXCL12-mediated T-cell transendothelial migration. <b>2002</b> , 99, 3111-8  | 86  |
| 1004 | Phosphorylation states of Cdc42 and RhoA regulate their interactions with Rho GDP dissociation inhibitor and their extraction from biological membranes. <b>2002</b> , 361, 243-54  | 97  |
| 1003 | Cross-talk unfolded: MARCKS proteins. <b>2002</b> , 362, 1-12   | 204 |
| 1002 | GTP binds to Rab3A in a complex with Ca <sup>2+</sup> /calmodulin. <b>2002</b> , 362, 651-7   | 14  |
| 1001 | Phosphorylation states of Cdc42 and RhoA regulate their interactions with Rho GDP dissociation inhibitor and their extraction from biological membranes. <b>2002</b> , 361, 243-254 | 131 |
| 1000 | GTP binds to Rab3A in a complex with Ca <sup>2+</sup> /calmodulin. <b>2002</b> , 362, 651-657   | 16  |
| 999  | [Involvement of small GTPase Rho in cardiovascular diseases]. <b>2002</b> , 120, 149-58   | 1   |
| 998  | Calpain cleaves RhoA generating a dominant-negative form that inhibits integrin-induced actin filament assembly and cell spreading. <b>2002</b> , 277, 24435-41                     | 79  |
| 997  | Protein kinase C regulates endocytosis and recycling of E-cadherin. <b>2002</b> , 283, C489-99  | 99  |
| 996  | Tumor necrosis factor inhibits neurite outgrowth and branching of hippocampal neurons by a rho-dependent mechanism. <b>2002</b> , 22, 854-62  | 265 |
| 995  | Growth cone turning induced by direct local modification of microtubule dynamics. <b>2002</b> , 22, 9358-67   | 227 |
| 994  | Interaction of the Rho-ADP-ribosylating C3 exoenzyme with RalA. <b>2002</b> , 277, 14771-6  | 26  |
| 993  | GAP activity of Yersinia YopE. <b>2002</b> , 358, 359-70  | 17  |
| 992  | Protein kinase Cepsilon actin-binding site is important for neurite outgrowth during neuronal differentiation. <b>2002</b> , 13, 12-24  | 62  |

|     |   |     |
|-----|---|-----|
| 991 | RhoA- and RhoD-dependent regulatory switch of Galpha subunit signaling by PAR-1 receptors in cellular invasion. <b>2002</b> , 16, 565-76                                    | 48  |
| 990 | Activation of protein kinase A accelerates bovine bronchial epithelial cell migration. <b>2002</b> , 282, L1108-16  | 38  |
| 989 | Spatial and temporal traction response in human airway smooth muscle cells. <b>2002</b> , 283, C1254-66   | 106 |
| 988 | Actin cytoskeleton and small heat shock proteins: how do they interact?. <b>2002</b> , 7, 167-76  | 264 |
| 987 | Synergism of aminobisphosphonates and farnesyl transferase inhibitors on tumor metastasis. <b>2002</b> , 228-39   | 17  |
| 986 | Hic-5 interacts with GIT1 with a different binding mode from paxillin. <b>2002</b> , 132, 279-89  | 35  |
| 985 | Antiapoptotic Cdc42 mutants are potent activators of cellular transformation. <b>2002</b> , 41, 12350-8   | 24  |
| 984 | PAK1 kinase is required for CXCL1-induced chemotaxis. <b>2002</b> , 41, 7100-7  | 31  |
| 983 | Didehydrogeranylgeranyl (Delta Delta GG): a fluorescent probe for protein prenylation. <b>2002</b> , 124, 20-1  | 24  |
| 982 | Structural and biophysical insights into the role of the insert region in Rac1 function. <b>2002</b> , 41, 3875-83  | 22  |
| 981 | The small GTPase Rho3 and the diaphanous/formin For3 function in polarized cell growth in fission yeast. <b>2002</b> , 115, 4629-39   | 98  |
| 980 | Lipoxins induce actin reorganization in monocytes and macrophages but not in neutrophils: differential involvement of rho GTPases. <b>2002</b> , 160, 2275-83               | 76  |
| 979 | Microfilament disruption in a noncycling organized tissue, the corneal endothelium, initiates mitosis. <b>2002</b> , 272, 127-34  | 11  |
| 978 | Involvement of Rho GTPases and their effectors in the secretory process of PC12 cells. <b>2002</b> , 273, 119-26  | 35  |
| 977 | A discrete cell cycle checkpoint in late G(1) that is cytoskeleton-dependent and MAP kinase (Erk)-independent. <b>2002</b> , 275, 255-64                                    | 67  |
| 976 | ROCK-II-induced membrane blebbing and chromatin condensation require actin cytoskeleton. <b>2002</b> , 278, 45-52   | 33  |
| 975 | The WASP-binding protein WIRE has a role in the regulation of the actin filament system downstream of the platelet-derived growth factor receptor. <b>2002</b> , 279, 21-33 | 42  |
| 974 | The netrin-1 receptor DCC promotes filopodia formation and cell spreading by activating Cdc42 and Rac1. <b>2002</b> , 19, 1-17  | 164 |

|     |  |     |
|-----|--|-----|
| 973 | Lysophosphatidic acid stimulates p21-activated kinase in vascular smooth muscle cells. <b>2002</b> , 291, 687-91   | 45  |
| 972 | ced-10 Rac and mig-2 function redundantly and act with unc-73 trio to control the orientation of vulval cell divisions and migrations in <i>Caenorhabditis elegans</i> . <b>2002</b> , 241, 339-48 | 42  |
| 971 | Cellular processes associated with germ band retraction in <i>Drosophila</i> . <b>2002</b> , 248, 29-39  | 61  |
| 970 | Distinct rac activation pathways control <i>Caenorhabditis elegans</i> cell migration and axon outgrowth. <b>2002</b> , 250, 145-55  | 58  |
| 969 | Transforming growth factor-beta1 modulates expression of adhesion and cytoskeletal proteins in human peritoneal fibroblasts. <b>2002</b> , 78, 154-61  | 40  |
| 968 | Endocytosis and the cytoskeleton. <b>2002</b> , 220, 93-144  | 142 |
| 967 | 3-hydroxy-3-methylglutaryl-coenzyme a reductase inhibitors reduce human pancreatic cancer cell invasion and metastasis. <b>2002</b> , 122, 308-17  | 183 |
| 966 | Tyrosine 221 in Crk regulates adhesion-dependent membrane localization of Crk and Rac and activation of Rac signaling. <b>2002</b> , 21, 4571-82   | 58  |
| 965 | The leukocyte cytoskeleton in cell migration and immune interactions. <b>2002</b> , 216, 233-89  | 45  |
| 964 | Molecular mechanisms of epithelial morphogenesis. <b>2002</b> , 18, 463-93   | 199 |
| 963 | The evolutionary history of effectors downstream of Cdc42 and Rac. <b>2002</b> , 3, REVIEWS0002  | 56  |
| 962 | Actin cytoskeleton regulation in neuronal morphogenesis and structural plasticity. <b>2002</b> , 18, 601-35  | 520 |
| 961 | Cyclase-associated proteins: CAPacity for linking signal transduction and actin polymerization. <b>2002</b> , 16, 487-99   | 163 |
| 960 | Activation of p38 MAP-kinase and caldesmon phosphorylation are essential for urokinase-induced human smooth muscle cell migration. <b>2002</b> , 383, 115-26                                       | 53  |
| 959 | Rho GTPases in transformation and metastasis. <b>2002</b> , 84, 57-80  | 217 |
| 958 | Order and disorder: the role of extracellular matrix in epithelial cancer. <b>2002</b> , 20, 139-53  | 83  |
| 957 | The cadherin family of cell adhesion molecules: multiple roles in synaptic plasticity. <b>2002</b> , 8, 221-33   | 52  |
| 956 | GTPase Protocols. <b>2002</b> ,  | 0   |

|     |   |     |
|-----|---|-----|
| 955 | Where the rubber meets the road: netrin expression and function in developing and adult nervous systems. <b>2002</b> , 137, 425-42                              | 64  |
| 954 | Vacuole fusion at a ring of vertex docking sites leaves membrane fragments within the organelle. <b>2002</b> , 108, 357-69                                      | 187 |
| 953 | A Yersinia effector and a Pseudomonas avirulence protein define a family of cysteine proteases functioning in bacterial pathogenesis. <b>2002</b> , 109, 575-88 | 388 |
| 952 | Rac1 and Cdc42 capture microtubules through IQGAP1 and CLIP-170. <b>2002</b> , 109, 873-85  | 487 |
| 951 | CNF1 exploits the ubiquitin-proteasome machinery to restrict Rho GTPase activation for bacterial host cell invasion. <b>2002</b> , 111, 553-64                  | 227 |
| 950 | Inhibition of Rho-kinase induces alphaB-crystallin expression in lens epithelial cells. <b>2002</b> , 294, 981-7  | 5   |
| 949 | A Rho GDP-dissociation inhibitor is involved in cytokinesis of Dictyostelium. <b>2002</b> , 296, 305-12   | 14  |
| 948 | Effect of Mg(2+) on the kinetics of guanine nucleotide binding and hydrolysis by Cdc42. <b>2002</b> , 297, 653-8  | 7   |
| 947 | Translocation of Na(+),K(+)-ATPase is induced by Rho small GTPase in renal epithelial cells. <b>2002</b> , 297, 1231-7  | 15  |
| 946 | Alternative splicing variants of the human DBL (MCF-2) proto-oncogene. <b>2002</b> , 299, 455-8   | 13  |
| 945 | Bruton's tyrosine kinase regulates B cell antigen receptor-mediated JNK1 response through Rac1 and phospholipase C-gamma2 activation. <b>2002</b> , 514, 260-2  | 9   |
| 944 | Endothelial Rho signaling is required for monocyte transendothelial migration. <b>2002</b> , 517, 261-6   | 35  |
| 943 | Rac1 prevents cisplatin-induced apoptosis through down-regulation of p38 activation in NIH3T3 cells. <b>2002</b> , 518, 129-34                                  | 24  |
| 942 | Identification of the first Rho-GEF inhibitor, TRIPalpha, which targets the RhoA-specific GEF domain of Trio. <b>2002</b> , 523, 35-42                          | 50  |
| 941 | CD44 signaling through focal adhesion kinase and its anti-apoptotic effect. <b>2002</b> , 528, 101-8  | 88  |
| 940 | B plexins activate Rho through PDZ-RhoGEF. <b>2002</b> , 529, 168-72  | 62  |
| 939 | Human RhoGAP domain-containing proteins: structure, function and evolutionary relationships. <b>2002</b> , 528, 27-34   | 128 |
| 938 | Activated Galphaq family members induce Rho GTPase activation and Rho-dependent actin filament assembly. <b>2002</b> , 531, 565-9                               | 40  |

|     |  |     |
|-----|--|-----|
| 937 | Cdc42 and Rac1 are necessary for autotaxin-induced tumor cell motility in A2058 melanoma cells. <b>2002</b> , 532, 351-6   | 26  |
| 936 | p80 ROKalpha binding protein is a novel splice variant of CRMP-1 which associates with CRMP-2 and modulates RhoA-induced neuronal morphology. <b>2002</b> , 532, 445-9 | 41  |
| 935 | Micromechanical mapping of live cells by multiple-particle-tracking microrheology. <b>2002</b> , 83, 3162-76   | 328 |
| 934 | Statins and ischemic stroke. <b>2002</b> , 3, 21-5   | 13  |
| 933 | Csk, a critical link of g protein signals to actin cytoskeletal reorganization. <b>2002</b> , 2, 733-44  | 65  |
| 932 | Non-canonical Wnt signalling and regulation of gastrulation movements. <b>2002</b> , 13, 251-60  | 167 |
| 931 | Physiological mechanisms regulating the expression of endothelial-type NO synthase. <b>2002</b> , 7, 132-47  | 182 |
| 930 | ARAP1: a point of convergence for Arf and Rho signaling. <b>2002</b> , 9, 109-19   | 155 |
| 929 | Regulation of rho GTPases by crosstalk and neuronal activity in vivo. <b>2002</b> , 33, 741-50   | 180 |
| 928 | Plexin-B1 directly interacts with PDZ-RhoGEF/LARG to regulate RhoA and growth cone morphology. <b>2002</b> , 35, 51-63   | 319 |
| 927 | Abnormal spine morphology and enhanced LTP in LIMK-1 knockout mice. <b>2002</b> , 35, 121-33   | 548 |
| 926 | Spine motility. Phenomenology, mechanisms, and function. <b>2002</b> , 35, 1019-27   | 284 |
| 925 | Epithelial cells challenged with a Rac-activating E. coli cytotoxin acquire features of professional phagocytes. <b>2002</b> , 16, 421-5                               | 2   |
| 924 | Epithelial cells and expression of the phagocytic marker CD68: scavenging of apoptotic bodies following Rho activation. <b>2002</b> , 16, 405-11                       | 28  |
| 923 | Association between the cell cycle and neural crest delamination through specific regulation of G1/S transition. <b>2002</b> , 3, 383-95                               | 106 |
| 922 | Actin cable dynamics and Rho/Rock orchestrate a polarized cytoskeletal architecture in the early steps of assembling a stratified epithelium. <b>2002</b> , 3, 367-81  | 289 |
| 921 | Sustained activation of N-WASP through phosphorylation is essential for neurite extension. <b>2002</b> , 3, 645-58   | 140 |
| 920 | Neuropeptides as growth factors for normal and cancerous cells. <b>2002</b> , 13, 128-34   | 89  |

|     |   |     |
|-----|---|-----|
| 919 | Cloning and characterization of ARHGAP12, a novel human rhoGAP gene. <b>2002</b> , 34, 325-31   | 18  |
| 918 | Regulation of substrate adhesion dynamics during cell motility. <b>2002</b> , 34, 746-61  | 224 |
| 917 | Motility is rate-limiting for invasion of bladder carcinoma cell lines. <b>2002</b> , 34, 762-75  | 21  |
| 916 | Distribution of gelsolin and phosphoinositol 4,5-bisphosphate in lamellipodia during EGF-induced motility. <b>2002</b> , 34, 776-90                                   | 49  |
| 915 | Analysis of the subcellular distribution of avian p95-APP2, an ARF-GAP orthologous to mammalian paxillin kinase linker. <b>2002</b> , 34, 826-37                      | 14  |
| 914 | Eps8 in the midst of GTPases. <b>2002</b> , 34, 1178-83   | 70  |
| 913 | Involvement of the GTPase Rho in the cellular uptake of low density lipoprotein by human skin fibroblasts. <b>2002</b> , 1580, 123-32                                 | 6   |
| 912 | Subtype-specific differential regulation of Rho family G proteins and cell migration by the Edg family sphingosine-1-phosphate receptors. <b>2002</b> , 1582, 112-20  | 134 |
| 911 | Rhodocetin antagonizes stromal tumor invasion in vitro and other alpha2beta1 integrin-mediated cell functions. <b>2002</b> , 21, 547-58                               | 41  |
| 910 | Advances in Rho-dependent actin regulation and oncogenic transformation. <b>2002</b> , 12, 36-43  | 80  |
| 909 | Constitutive active GTPases Rac and Cdc42 are associated with endoreplication in PAE cells. <b>2002</b> , 38, 1775-82   | 15  |
| 908 | Axon specification in hippocampal neurons. <b>2002</b> , 43, 305-15   | 82  |
| 907 | Developmental changes in expression of small GTPase RhoG mRNA in the rat brain. <b>2002</b> , 106, 145-50   | 15  |
| 906 | Activity-dependent regulation of genes implicated in X-linked non-specific mental retardation. <b>2002</b> , 114, 13-7  | 24  |
| 905 | Rho proteins, mental retardation and the cellular basis of cognition. <b>2002</b> , 25, 191-9   | 308 |
| 904 | The role of Rho GTPases in disease development. <b>2002</b> , 286, 155-74   | 190 |
| 903 | Genomic organization and expression profile of the small GTPases of the RhoBTB family in human and mouse. <b>2002</b> , 298, 147-57                                   | 68  |
| 902 | Rescue of auditory hair cells from aminoglycoside toxicity by Clostridium difficile toxin B, an inhibitor of the small GTPases Rho/Rac/Cdc42. <b>2002</b> , 172, 81-6 | 47  |

|     |   |     |
|-----|---|-----|
| 901 | Rapid recovery of sensory function in blind cave fish treated with anemone repair proteins. <b>2002</b> , 174, 296-304                                      | 11  |
| 900 | Genomic structure of the human beta-PIX gene and its alteration in gastric cancer. <b>2002</b> , 177, 203-8   | 6   |
| 899 | Cell junction dynamics in the testis: Sertoli-germ cell interactions and male contraceptive development. <b>2002</b> , 82, 825-74                           | 461 |
| 898 | Inhibitors of the ras oncogene as therapeutic targets. <b>2002</b> , 16, 1065-88  | 26  |
| 897 | Antagonistic effects of Rnd1 and RhoD GTPases regulate receptor activity in Semaphorin 3A-induced cytoskeletal collapse. <b>2002</b> , 22, 471-7            | 139 |
| 896 | The TRQQKRP motif located near the C-terminus of Rac2 is essential for Rac2 biologic functions and intracellular localization. <b>2002</b> , 100, 1679-1688 | 33  |
| 895 | Normal Arp2/3 complex activation in platelets lacking WASp. <b>2002</b> , 100, 2113-2122  | 58  |
| 894 | A novel FERM domain including guanine nucleotide exchange factor is involved in Rac signaling and regulates neurite remodeling. <b>2002</b> , 22, 8504-13   | 58  |
| 893 | Kalirin Dbl-homology guanine nucleotide exchange factor 1 domain initiates new axon outgrowths via RhoG-mediated mechanisms. <b>2002</b> , 22, 6980-90      | 78  |
| 892 | Epithelial Restitution and Physical Stress. <b>2002</b> , 25, 57-68   |     |
| 891 | Ca <sup>2+</sup> Signaling in Epithelial Restitution. <b>2002</b> , 25, 29-42   | 5   |
| 890 | Polyamines regulate beta-catenin tyrosine phosphorylation via Ca <sup>2+</sup> during intestinal epithelial cell migration. <b>2002</b> , 283, C722-34      | 58  |
| 889 | Rac1-mediated endocytosis during ephrin-A2- and semaphorin 3A-induced growth cone collapse. <b>2002</b> , 22, 6019-28                                       | 140 |
| 888 | Growth cone pathfinding and filopodial dynamics are mediated separately by Cdc42 activation. <b>2002</b> , 22, 1794-806                                     | 32  |
| 887 | A novel role for p75NTR in subplate growth cone complexity and visual thalamocortical innervation. <b>2002</b> , 22, 3580-93                                | 67  |
| 886 | Les molécules qui dirigent la migration des astrocytes. <b>2002</b> , 18, 142-144   | 0   |
| 885 | Rac1, but not RhoA, signaling protects epithelial adherens junction assembly during ATP depletion. <b>2002</b> , 283, C261-72                               | 21  |
| 884 | Rac GTPase plays an essential role in exocytosis by controlling the fusion competence of release sites. <b>2002</b> , 22, 7968-81                           | 55  |



|     |  |     |
|-----|--|-----|
| 883 | Tumor Cell Motility and Invasion. <b>2002</b> , 467-473  | 1   |
| 882 | Rho signaling pathway targeted to promote spinal cord repair. <b>2002</b> , 22, 6570-7   | 620 |
| 881 | Diverse effects of RacV12 on cell transformation by Raf: partial inhibition of morphological transformation versus deregulation of cell cycle control. <b>2002</b> , 1589, 151-9                                 | 5   |
| 880 | Dynamic aspects of cadherin-mediated adhesion in synapse development and plasticity. <b>2002</b> , 94, 335-44  | 15  |
| 879 | Cadherin-based cell adhesion in neuromuscular development. <b>2002</b> , 94, 315-26  | 24  |
| 878 | Transforming growth factor beta activates Rac1 and Cdc42Hs GTPases and the JNK pathway in skeletal muscle cells. <b>2002</b> , 94, 535-43  | 23  |
| 877 | Astrocyte stellation in saline media lacking bicarbonate: possible relation to intracellular pH and tyrosine phosphorylation. <b>2002</b> , 946, 12-23   | 20  |
| 876 | Ultrastructural examination of cytoskeletal linkage of L-selectin and comparison of L-selectin cytoskeletal association to that of other human and bovine lymphocyte surface antigens. <b>2002</b> , 215, 219-31 | 3   |
| 875 | Actin polymerization processes in plant cells. <b>2002</b> , 5, 502-6  | 47  |
| 874 | Rho GTPases and the regulation of endothelial permeability. <b>2002</b> , 39, 187-99   | 368 |
| 873 | Rac and Rho mediate opposing hormonal regulation of the ether-a-go-go-related potassium channel. <b>2002</b> , 12, 27-33   | 79  |
| 872 | The Human Rho-GEF trio and its target GTPase RhoG are involved in the NGF pathway, leading to neurite outgrowth. <b>2002</b> , 12, 307-12  | 129 |
| 871 | GTPase signaling: bridging the GAP between ARF and Rho. <b>2002</b> , 12, R360-2   | 23  |
| 870 | The lamellipodium: where motility begins. <b>2002</b> , 12, 112-20   | 736 |
| 869 | Sphingosine 1-phosphate signaling: providing cells with a sense of direction. <b>2002</b> , 12, 236-42   | 124 |
| 868 | Inhibition of PTPs by H <sub>2</sub> O <sub>2</sub> regulates the activation of distinct MAPK pathways. <b>2002</b> , 33, 1121-32  | 186 |
| 867 | Plasticity in hippocampal peptidergic systems induced by repeated electroconvulsive shock. <b>2002</b> , 27, 55-71   | 27  |
| 866 | Murine Sca-1(+)/Lin(-) cells and human KG1a cells exhibit multiple pseudopod morphologies during migration. <b>2002</b> , 30, 460-3  | 16  |

|     |   |     |
|-----|---|-----|
| 865 | The modular logic of signaling proteins: building allosteric switches from simple binding domains. <b>2002</b> , 12, 61-8   | 117 |
| 864 | F-actin dynamics control segregation of the TCR signaling cascade to clustered lipid rafts. <b>2002</b> , 32, 435-46  | 81  |
| 863 | Extension, retraction and contraction in the formation of a dendritic cell dendrite: distinct roles for Rho GTPases. <b>2002</b> , 32, 2074-83  | 65  |
| 862 | Novel mental retardation-epilepsy syndrome linked to Xp21.1-p11.4. <b>2002</b> , 51, 45-50  | 24  |
| 861 | Two separate domains in the golli myelin basic proteins are responsible for nuclear targeting and process extension in transfected cells. <b>2002</b> , 69, 587-96  | 32  |
| 860 | Actin machinery of phagocytic cells: universal target for bacterial attack. <b>2002</b> , 57, 432-40  | 6   |
| 859 | Morphological color changes in fish: regulation of pigment cell density and morphology. <b>2002</b> , 58, 496-503   | 168 |
| 858 | Coordination of cell proliferation and cell fate decisions in the angiosperm shoot apical meristem. <b>2002</b> , 24, 27-37   | 35  |
| 857 | Molecular control of neuronal migration. <b>2002</b> , 24, 821-7  | 53  |
| 856 | High-efficiency solid-phase capture using glass beads bonded to microcentrifuge tubes: immunoprecipitation of proteins from cell extracts and assessment of ras activation. <b>2002</b> , 302, 298-304                  | 4   |
| 855 | p56(lck) Controls phosphorylation of filamin (ABP-280) and regulates focal adhesion kinase (pp125(FAK)). <b>2002</b> , 26, 567-71   | 9   |
| 854 | Mechanistics of amoeboid locomotion: signal to forces. <b>2002</b> , 26, 933-44   | 20  |
| 853 | Intracellular signaling in M-CSF-induced microglia activation: role of Iba1. <b>2002</b> , 40, 164-74   | 264 |
| 852 | Involvement of phosphorylation of Tyr-31 and Tyr-118 of paxillin in MM1 cancer cell migration. <b>2002</b> , 97, 330-5  | 45  |
| 851 | Localised depletion of polymerised actin at the front of Walker carcinosarcoma cells increases the speed of locomotion. <b>2002</b> , 53, 189-202   | 20  |
| 850 | Reorganization and translocation of the ectoplasmic cytoskeleton in the leech zygote by condensation of cytasters and interactions of dynamic microtubules and actin filaments. <b>2002</b> , 53, 214-30                | 4   |
| 849 | CD44v10 interaction with Rho-kinase (ROK) activates inositol 1,4,5-triphosphate (IP3) receptor-mediated Ca <sup>2+</sup> signaling during hyaluronan (HA)-induced endothelial cell migration. <b>2002</b> , 53, 293-316 | 66  |
| 848 | Transforming growth factor-alpha-induced cellular changes in organotypic cultures of juvenile, amikacin-treated rat organ of corti. <b>2002</b> , 442, 6-22   | 11  |

|     |  |     |
|-----|--|-----|
| 847 | Regulation of cadherin junctions during mouse submandibular gland development. <b>2002</b> , 224, 321-33   | 32  |
| 846 | Modulation of HeLa cells spreading by the non-receptor tyrosine kinase ACK-2. <b>2002</b> , 84, 655-65   | 14  |
| 845 | Stress kinase p38 mediates EGFR transactivation by hyperosmolar concentrations of sorbitol. <b>2002</b> , 192, 234-43  | 48  |
| 844 | Emerging functions of p21-activated kinases in human cancer cells. <b>2002</b> , 193, 133-44   | 100 |
| 843 | Isolation of fosRACD gene encoding a small GTP-binding protein from rice. <b>2002</b> , 47, 1673-1679  |     |
| 842 | Differential distribution of alpha and beta isoforms of p21-activated kinase in the monkey cerebral neocortex and hippocampus. <b>2002</b> , 144, 189-99   | 15  |
| 841 | Statins: the new aspirin?. <b>2002</b> , 59, 1771-86   | 72  |
| 840 | Shear stress induces caveolin-1 translocation in cultured endothelial cells. <b>2002</b> , 30, 605-11  | 38  |
| 839 | Transforming growth factor-beta increases Escherichia coli K1 adherence, invasion, and transcytosis in human brain microvascular endothelial cells. <b>2002</b> , 309, 281-6                     | 14  |
| 838 | Movement of generative cell and vegetative nucleus in tobacco pollen tubes is dependent on microtubule cytoskeleton but independent of the synthesis of callose plugs. <b>2002</b> , 15, 195-204 | 32  |
| 837 | Regulation of pancreatic cell differentiation and morphogenesis. <b>2002</b> , 3, 46-63  | 3   |
| 836 | Genetic analysis of integrin activation in T lymphocytes. <b>2002</b> , 186, 172-88  | 12  |
| 835 | Regulation of microtubule-organizing center orientation and actomyosin cytoskeleton rearrangement during immune interactions. <b>2002</b> , 189, 84-97   | 58  |
| 834 | Myosin VI, an actin motor for membrane traffic and cell migration. <b>2002</b> , 3, 851-8  | 70  |
| 833 | Dematin interacts with the Ras-guanine nucleotide exchange factor Ras-GRF2 and modulates mitogen-activated protein kinase pathways. <b>2002</b> , 269, 638-49                                    | 14  |
| 832 | Association of frabin with specific actin and membrane structures. <b>2002</b> , 7, 413-20   | 15  |
| 831 | ERBIN associates with p0071, an armadillo protein, at cell-cell junctions of epithelial cells. <b>2002</b> , 7, 475-85   | 56  |
| 830 | Chemokine signalling: pivoting around multiple phosphoinositide 3-kinases. <b>2002</b> , 105, 125-36   | 123 |

|     |  |     |
|-----|--|-----|
| 829 | Identification of SopE2 from <i>Salmonella typhimurium</i> , a conserved guanine nucleotide exchange factor for Cdc42 of the host cell. <b>2000</b> , 36, 1206-21                                    | 220 |
| 828 | The RhoGAP activity of the <i>Yersinia pseudotuberculosis</i> cytotoxin YopE is required for antiphagocytic function and virulence. <b>2000</b> , 37, 515-27   | 251 |
| 827 | Transcytosis of iota-toxin across polarized CaCo-2 cells. <b>2002</b> , 43, 907-17   | 42  |
| 826 | Co-ordinate regulation of distinct host cell signalling pathways by multifunctional enteropathogenic <i>Escherichia coli</i> effector molecules. <b>2002</b> , 44, 1095-1107                         | 142 |
| 825 | The RHO1-GAPs SAC7, BEM2 and BAG7 control distinct RHO1 functions in <i>Saccharomyces cerevisiae</i> . <b>2002</b> , 45, 1433-41   | 47  |
| 824 | G $\alpha$ (12) and G $\alpha$ (13) inhibit Ca(2+)-dependent exocytosis through Rho/Rho-associated kinase-dependent pathway. <b>2000</b> , 75, 708-17  | 22  |
| 823 | Vasopressin and oxytocin reverse adenosine-induced pituicyte stellation via calcium-dependent activation of Cdc42. <b>2002</b> , 16, 2324-32   | 13  |
| 822 | Characterization of the expression of PDZ-RhoGEF, LARG and G $\alpha$ (12)/G $\alpha$ (13) proteins in the murine nervous system. <b>2002</b> , 16, 2333-41  | 42  |
| 821 | Requirement of Rho-family GTPases in the invasion of Type 1-piliated uropathogenic <i>Escherichia coli</i> . <b>2002</b> , 4, 19-28  | 121 |
| 820 | <i>Yersinia</i> effectors target mammalian signalling pathways. <b>2002</b> , 4, 201-11  | 70  |
| 819 | Involvement of SipA in modulating actin dynamics during <i>Salmonella</i> invasion into cultured epithelial cells. <b>2002</b> , 4, 357-65   | 59  |
| 818 | Identification of MEK- and phosphoinositide 3-kinase-dependent signalling as essential events during <i>Chlamydia pneumoniae</i> invasion of HEP2 cells. <b>2002</b> , 4, 447-60                     | 100 |
| 817 | Activation of Rac, Cdc42 and other downstream signalling molecules by <i>Bartonella bacilliformis</i> during entry into human endothelial cells. <b>2002</b> , 4, 557-69                             | 28  |
| 816 | The rho/rho-kinase pathway is involved in the progression of testicular germ cell tumour. <b>2002</b> , 89, 449-53   | 44  |
| 815 | Intracellular signalling involved in modulating human endothelial barrier function. <b>2002</b> , 200, 549-60  | 114 |
| 814 | Interaction between p21-activated protein kinase and Rac during differentiation of HL-60 human promyelocytic leukemia cell induced by all-trans-retinoic acid. <b>2002</b> , 269, 2622-9             | 5   |
| 813 | Identification and characterization of a novel activated RhoB binding protein containing a PDZ domain whose expression is specifically modulated in thyroid cells by cAMP. <b>2002</b> , 269, 6241-9 | 14  |
| 812 | Role of trophic factors in the development, survival and repair of primary auditory neurons. <b>2002</b> , 29, 363-71  | 6   |

|     |   |     |
|-----|---|-----|
| 811 | Genome-wide search of Schizosaccharomyces pombe genes causing overexpression-mediated cell cycle defects. <b>2002</b> , 19, 1139-51   | 18  |
| 810 | Rho GTPase signalling pathways in the morphological changes associated with apoptosis. <b>2002</b> , 9, 493-504   | 199 |
| 809 | Sphingosine 1-phosphate as a therapeutic agent. <b>2002</b> , 16, 1596-602  | 110 |
| 808 | Microcirculation as a target for the anti-inflammatory properties of statins. <b>2002</b> , 9, 431-42   | 28  |
| 807 | Rac1 and RhoG promote cell survival by the activation of PI3K and Akt, independently of their ability to stimulate JNK and NF-kappaB. <b>2002</b> , 21, 207-16                    | 139 |
| 806 | Distinct roles for phosphoinositide 3-kinase, mitogen-activated protein kinase and p38 MAPK in mediating cell cycle progression of breast cancer cells. <b>2002</b> , 21, 4567-76 | 97  |
| 805 | Bile acids stimulate invasion and haptotaxis in human colorectal cancer cells through activation of multiple oncogenic signaling pathways. <b>2002</b> , 21, 6740-50              | 69  |
| 804 | Extract Reduces the Motility of Breast Cancer Cells Mediated by the RAC?Lamellipodin Axis. <b>2019</b> , 11,  | 8   |
| 803 | Characterization of the novel cardiolipin binding regions identified on the protease and lipid activated PKC-related kinase 1. <b>2019</b> , 28, 1473-1486                        | 2   |
| 802 | Calcium Signaling Commands Phagosome Maturation Process. <b>2019</b> , 38, 57-69  | 5   |
| 801 | Rho GTPases in the Physiology and Pathophysiology of Peripheral Sensory Neurons. <b>2019</b> , 8,   | 19  |
| 800 | Profilin2 is required for filamentous actin formation induced by human parainfluenza virus type 2. <b>2019</b> , 533, 108-114   | 4   |
| 799 | Nanoscale Surveillance of the Brain by Microglia via cAMP-Regulated Filopodia. <b>2019</b> , 27, 2895-2908.e4   | 69  |
| 798 | Golgi-resident TRIO regulates membrane trafficking during neurite outgrowth. <b>2019</b> , 294, 10954-10968   | 13  |
| 797 | A streptococcal Fic domain-containing protein disrupts blood-brain barrier integrity by activating moesin in endothelial cells. <b>2019</b> , 15, e1007737                        | 9   |
| 796 | Statistical mechanics of a single active slider on a fluctuating interface. <b>2019</b> , 99, 042124  | 6   |
| 795 | c-Met-dependent phosphorylation of RhoA plays a key role in gastric cancer tumorigenesis. <b>2019</b> , 249, 126-136  | 6   |
| 794 | Enhanced Dendritic Actin Network Formation in Extended Lamellipodia Drives Proliferation in Growth-Challenged Rac1 Melanoma Cells. <b>2019</b> , 49, 444-460.e9                   | 17  |

|     |   |    |
|-----|---|----|
| 793 | New insights into YAP/TAZ nucleo-cytoplasmic shuttling: new cancer therapeutic opportunities?. <b>2019</b> , 13, 1335-1341  | 30 |
| 792 | Enzyme-Driven Assembly and Disassembly of Hybrid DNA-RNA Nanotubes. <b>2019</b> , 141, 7831-7841  | 37 |
| 791 | Simvastatin reduces the carcinogenic effect of 3-methylcholanthrene in renal epithelial cells through histone deacetylase 1 inhibition and RhoA reactivation. <b>2019</b> , 9, 4606 | 3  |
| 790 | Visual Defects and Ageing. <b>2019</b> , 91, 393-434  | 4  |
| 789 | Comparative Study of ROCK1 and ROCK2 in Hippocampal Spine Formation and Synaptic Function. <b>2019</b> , 35, 649-660  | 5  |
| 788 | Mechanosensing and Mechanoregulation of Endothelial Cell Functions. <b>2019</b> , 9, 873-904  | 55 |
| 787 | ARHGEF4-mediates the actin cytoskeleton reorganization of hepatic stellate cells in 3-dimensional collagen matrices. <b>2019</b> , 13, 169-181                                      |    |
| 786 | Current and emerging osteoporosis pharmacotherapy for women: state of the art therapies for preventing bone loss. <b>2019</b> , 20, 1123-1134                                       | 18 |
| 785 | Effect of lipopolysaccharide on the adherence of human umbilical vein endothelial cells (HUVEC) on a natural substrate. <b>2019</b> , 71, 175-181                                   | 4  |
| 784 | CD100-plexin-B1 induces epithelial-mesenchymal transition of head and neck squamous cell carcinoma and promotes metastasis. <b>2019</b> , 455, 1-13                                 | 8  |
| 783 | Regulators of Rho GTPases in the Nervous System: Molecular Implication in Axon Guidance and Neurological Disorders. <b>2019</b> , 20,   | 13 |
| 782 | The matrix environmental and cell mechanical properties regulate cell migration and contribute to the invasive phenotype of cancer cells. <b>2019</b> , 82, 064602                  | 70 |
| 781 | The prognostic value of Tiam1 correlates with its roles in epithelial-mesenchymal transition progression and angiogenesis in lung adenocarcinoma. <b>2019</b> , 11, 1741-1752       | 10 |
| 780 | Overexpression of CDC42SE1 in A431 Cells Reduced Cell Proliferation by Inhibiting the Akt Pathway. <b>2019</b> , 8,   | 4  |
| 779 | Distinct functions of Trio GEF domains in axon outgrowth of cerebellar granule neurons. <b>2019</b> , 46, 87-96   | 8  |
| 778 | MicroRNA-224 enhances the osteoblastic differentiation of hMSCs via Rac1. <b>2019</b> , 37, 62-71   | 8  |
| 777 | RHO G Activates RAC1 through CDC42 Leading to Tube Formation in Vascular Endothelial Cells. <b>2019</b> , 8,  | 21 |
| 776 | Nuclear import of the DSCAM-cytoplasmic domain drives signaling capable of inhibiting synapse formation. <b>2019</b> , 38,  | 22 |

|     |  |    |
|-----|--|----|
| 775 | Intracellular Invasion by <i>Streptococcus pyogenes</i> : Invasins, Host Receptors, and Relevance to Human Disease. <b>2019</b> , 35-44  | 1  |
| 774 | Crystal structures of p120RasGAP N-terminal SH2 domain in its apo form and in complex with a p190RhoGAP phosphotyrosine peptide. <b>2019</b> , 14, e0226113  | 7  |
| 773 | Expression of Nup93 is associated with the proliferation, migration and invasion capacity of cervical cancer cells. <b>2019</b> , 51, 1276-1285  | 5  |
| 772 | Development of an RNA Virus-Based Episomal Vector Capable of Switching Transgene Expression. <b>2019</b> , 10, 2485  | 4  |
| 771 | 6-Hydroxythiobinupharidine Inhibits Migration of LM8 Osteosarcoma Cells by Decreasing Expression of LIM Domain Kinase 1. <b>2019</b> , 39, 6507-6513   | 4  |
| 770 | Eplerenone improves endothelial function and arterial stiffness and inhibits Rho-associated kinase activity in patients with idiopathic hyperaldosteronism: a pilot study. <b>2019</b> , 37, 1083-1095             | 4  |
| 769 | Network analysis exposes core functions in major lifestyles of fungal and oomycete plant pathogens. <b>2019</b> , 20, 1020   | 9  |
| 768 | NKCC1 promotes EMT-like process in GBM via RhoA and Rac1 signaling pathways. <b>2019</b> , 234, 1630-1642  | 20 |
| 767 | The relationship between substrate topography and stem cell differentiation in the musculoskeletal system. <b>2019</b> , 76, 505-521   | 32 |
| 766 | Ginsenoside Rb1 promotes intestinal epithelial wound healing through extracellular signal-regulated kinase and Rho signaling. <b>2019</b> , 34, 1193-1200  | 8  |
| 765 | The effect of rho kinase inhibition on morphological and electrophysiological maturity in iPSC-derived neurons. <b>2019</b> , 375, 641-654   | 7  |
| 764 | Cell polarization: From epithelial cells to odontoblasts. <b>2019</b> , 98, 1-11   | 18 |
| 763 | CtBP promotes metastasis of breast cancer through repressing cholesterol and activating TGF- $\beta$ signaling. <b>2019</b> , 38, 2076-2091  | 32 |
| 762 | cDNA cloning, characterization, and expression analysis of the Rac1 and Rac2 genes from <i>Cynoglossus semilaevis</i> . <b>2019</b> , 84, 998-1006   | 3  |
| 761 | The actin cytoskeleton is important for rotavirus internalization and RNA genome replication. <b>2019</b> , 263, 27-33   | 11 |
| 760 | Werner syndrome (WRN) DNA helicase and base excision repair (BER) factors maintain endothelial homeostasis. <b>2019</b> , 73, 17-27  | 2  |
| 759 | Microglial distribution, branching, and clearance activity in aged rat hippocampus are affected by astrocyte meshwork integrity: evidence of a novel cell-cell interglial interaction. <b>2019</b> , 33, 4007-4020 | 9  |
| 758 | Connexin 40 regulates lung endothelial permeability in acute lung injury via the ROCK1-MYPT1-MLC20 pathway. <b>2019</b> , 316, L35-L44   | 19 |

|     |   |    |
|-----|---|----|
| 757 | RhoA, RhoB and RhoC differentially regulate endothelial barrier function. <b>2019</b> , 10, 466-484   | 26 |
| 756 | Molecular perturbation strategies to examine spatiotemporal features of Rho GEF and Rho GTPase activity in living cells. <b>2019</b> , 10, 178-186  | 4  |
| 755 | Host cell Rac1 GTPase facilitates <i>Toxoplasma gondii</i> invasion. <b>2020</b> , 63, 610-612  | 1  |
| 754 | Nyap1 Regulates Multipolar-Bipolar Transition and Morphology of Migrating Neurons by Fyn Phosphorylation during Corticogenesis. <b>2020</b> , 30, 929-941                                 | 1  |
| 753 | Knockdown Rab11-FIP2 inhibits migration and invasion of nasopharyngeal carcinoma via suppressing Rho GTPase signaling. <b>2020</b> , 121, 1072-1086                                       | 1  |
| 752 | TAZ contributes to osteogenic differentiation of periodontal ligament cells under tensile stress. <b>2020</b> , 55, 152-160   | 7  |
| 751 | Vessel co-option in glioblastoma: emerging insights and opportunities. <b>2020</b> , 23, 9-16   | 49 |
| 750 | Protein kinases: master regulators of neuritogenesis and therapeutic targets for axon regeneration. <b>2020</b> , 77, 1511-1530   | 7  |
| 749 | Mapping of biomechanical properties of cell lines on altered matrix stiffness using atomic force microscopy. <b>2020</b> , 19, 1523-1536  | 9  |
| 748 | Nanosecond pulsed current under plasma-producing conditions induces morphological alterations and stress fiber formation in human fibrosarcoma HT-1080 cells. <b>2020</b> , 681, 108252   | 4  |
| 747 | Proteoglycan serglycin promotes non-small cell lung cancer cell migration through the interaction of its glycosaminoglycans with CD44. <b>2020</b> , 27, 2                                | 16 |
| 746 | PKN1 controls the aggregation, spheroid formation, and viability of mouse embryonic fibroblasts in suspension culture. <b>2020</b> , 523, 398-404   | 2  |
| 745 | Inhibition of lysine-specific histone demethylase 1A results in meiotic aberration during oocyte maturation <i>in vitro</i> in goats. <b>2020</b> , 143, 168-178                          | 6  |
| 744 | Stretching Induces Overexpression of RhoA and Rac1 GTPases in Breast Cancer Cells. <b>2020</b> , 4, e1900222  | 10 |
| 743 | Inhibition of Protein Prenylation of GTPases Alters Endothelial Barrier Function. <b>2019</b> , 21,   | 5  |
| 742 | Complications of Dentoalveolar Surgery. <b>2020</b> , 32, 649-674   | 0  |
| 741 | K Channel Tetramerization Domain 5 (KCTD5) Protein Regulates Cell Migration, Focal Adhesion Dynamics and Spreading through Modulation of Ca Signaling and Rac1 Activity. <b>2020</b> , 9, | 4  |
| 740 | In Full Force. Mechanotransduction and Morphogenesis during Homeostasis and Tissue Regeneration. <b>2020</b> , 7,   | 3  |



|     |  |    |
|-----|--|----|
| 739 | Rho GTPases: Big Players in Breast Cancer Initiation, Metastasis and Therapeutic Responses. <b>2020</b> , 9,   | 13 |
| 738 | Regulation of degenerative spheroids after injury. <b>2020</b> , 10, 15472   | 2  |
| 737 | Mislocalization of SMN from the I-band and M-band in human skeletal myofibers in spinal muscular atrophy associates with primary structural alterations of the sarcomere. <b>2020</b> , 381, 461-478   | 3  |
| 736 | Proto-Oncogene Serine/Threonine Kinase PIM3 Promotes Cell Migration via Modulating Rho GTPase Signaling. <b>2020</b> , 19, 1298-1309   | 3  |
| 735 | Effects of Mechanical Forces on Cells and Tissues. <b>2020</b> , 717-733   | 0  |
| 734 | Regenerative Effect of a ROCK Inhibitor, Y-27632, on Excitotoxic Trauma in an Organotypic Culture of the Cochlea. <b>2020</b> , 14, 572434   | 5  |
| 733 | Shear Stress Modulates Osteoblast Cell and Nucleus Morphology and Volume. <b>2020</b> , 21,  | 6  |
| 732 | Self-Strengthening Adhesive Force Promotes Cell Mechanotransduction. <b>2020</b> , 32, e2006986  | 19 |
| 731 | Effect of silica-coated magnetic nanoparticles on rigidity sensing of human embryonic kidney cells. <b>2020</b> , 18, 170  | 11 |
| 730 | The Neuromuscular Junction in Health and Disease: Molecular Mechanisms Governing Synaptic Formation and Homeostasis. <b>2020</b> , 13, 610964  | 21 |
| 729 | RhoA and Rac1 in Liver Cancer Cells: Induction of Overexpression Using Mechanical Stimulation. <b>2020</b> , 11,   | 8  |
| 728 | DOTA-ZOL: A Promising Tool in Diagnosis and Palliative Therapy of Bone Metastasis-Challenges and Critical Points in Implementation into Clinical Routine. <b>2020</b> , 25,  | 4  |
| 727 | A perspective on the early days of RAS research. <b>2020</b> , 39, 1023-1028   | 8  |
| 726 | Inhibitory Effect of PIK-24 on Respiratory Syncytial Virus Entry by Blocking Phosphatidylinositol-3 Kinase Signaling. <b>2020</b> , 64,  | 1  |
| 725 | Mitofusin 2 regulates neutrophil adhesive migration and the actin cytoskeleton. <b>2020</b> , 133,   | 7  |
| 724 | Actin regulators in cancer progression and metastases: From structure and function to cytoskeletal dynamics. <b>2020</b> , 356, 131-196  | 8  |
| 723 | Anti-cancer potential of persimmon ( <i>Diospyros kaki</i> ) leaves via the PDGFR-Rac-JNK pathway. <b>2020</b> , 10, 18119   | 4  |
| 722 | Intravenous infusion of bone marrow mononuclear cells promotes functional recovery and improves impaired cognitive function via inhibition of Rho guanine nucleotide triphosphatases and inflammatory signals in a model of chronic epilepsy. <b>2020</b> , 225, 2799-2813 |    |

|     |  |    |
|-----|--|----|
| 721 | Rho Family of Ras-Like GTPases in Early-Branching Animals. <b>2020</b> , 9,  | 7  |
| 720 | A moving grid finite element method applied to a mechanobiochemical model for 3D cell migration. <b>2020</b> , 158, 336-359  | 1  |
| 719 | Gut Microbiota and Colon Cancer: A Role for Bacterial Protein Toxins?. <b>2020</b> , 21,   | 14 |
| 718 | Polarized Trout Epithelial Cells Regulate Transepithelial Electrical Resistance, Gene Expression, and the Phosphoproteome in Response to Viral Infection. <b>2020</b> , 11, 1809             | 2  |
| 717 | Light-to-Heat Photothermal Dynamic Properties of Polypyrrole-Based Coating for Regenerative Therapy and Lab-on-a-Chip Applications. <b>2020</b> , 7, 2000980                                 | 3  |
| 716 | Rhophilin-associated tail protein 1 promotes migration and metastasis in triple negative breast cancer via activation of RhoA. <b>2020</b> , 34, 9959-9971                                   | 1  |
| 715 | Increasing the level of cytoskeletal protein Flightless I reduces adhesion formation in a murine digital flexor tendon model. <b>2020</b> , 15, 362  | 4  |
| 714 | EZH2 reduction is an essential mechanoresponse for the maintenance of super-enhancer polarization against compressive stress in human periodontal ligament stem cells. <b>2020</b> , 11, 757 | 2  |
| 713 | The effects of coating culture dishes with collagen on fibroblast cell shape and swirling pattern formation. <b>2020</b> , 46, 351-369   | 4  |
| 712 | Elucidating the molecular signaling pathways of WAVE3. <b>2020</b> , 8, 900  | 3  |
| 711 | Salivary proteomic profile of dogs with and without dental calculus. <b>2020</b> , 16, 298   | 0  |
| 710 | Enhancement of Migration and Invasion of Gastric Cancer Cells by IQGAP3. <b>2020</b> , 10,   | 7  |
| 709 | Stem Cell Mechanobiology and the Role of Biomaterials in Governing Mechanotransduction and Matrix Production for Tissue Regeneration. <b>2020</b> , 8, 597661                                | 16 |
| 708 | Serotonin 2A (5-HT) receptor affects cell-matrix adhesion and the formation and maintenance of stress fibers in HEK293 cells. <b>2020</b> , 10, 21675  | 4  |
| 707 | StRac1 plays an important role in potato resistance against <i>Phytophthora infestans</i> via regulating HO production. <b>2020</b> , 253, 153249  | 1  |
| 706 | Deciphering the mechanoresponsive role of Eatenin in keratoconus epithelium. <b>2020</b> , 10, 21382   | 5  |
| 705 | Proteomes, kinases and signalling pathways in virus-induced filopodia, as potential antiviral therapeutics targets. <b>2021</b> , 31, 1-9  | 2  |
| 704 | The Rho guanine nucleotide exchange factor Trio is required for neural crest cell migration and interacts with Dishevelled. <b>2020</b> , 147,   | 5  |

|     |  |    |
|-----|--|----|
| 703 | PDPN Is Expressed in Various Types of Canine Tumors and Its Silencing Induces Apoptosis and Cell Cycle Arrest in Canine Malignant Melanoma. <b>2020</b> , 9,   | 4  |
| 702 | The role of activated leukocyte cell adhesion molecule (ALCAM) in cancer progression, invasion, metastasis and recurrence: A novel cancer stem cell marker and tumor-specific prognostic marker. <b>2020</b> , 115, 104443 | 19 |
| 701 | Focal adhesion kinase is activated by microtubule-depolymerizing agents and regulates membrane blebbing in human endothelial cells. <b>2020</b> , 24, 7228-7238  | 2  |
| 700 | Flightless anchors IQGAP1 and R-ras to mediate cell extension formation and matrix remodeling. <b>2020</b> , 31, 1595-1610   | 4  |
| 699 | A hybrid stochastic-deterministic mechanochemical model of cell polarization. <b>2020</b> , 31, 1637-1649  | 7  |
| 698 | Compressive Stimulation Enhances Ovarian Cancer Proliferation, Invasion, Chemoresistance, and Mechanotransduction via CDC42 in a 3D Bioreactor. <b>2020</b> , 12,  | 12 |
| 697 | Role of Membrane Tension Sensitive Endocytosis and Rho GTPases in the Uptake of the Alzheimer's Disease Peptide A $\beta$ (1-42). <b>2020</b> , 11, 1925-1936  | 4  |
| 696 | Pleiotropic Roles of Calmodulin in the Regulation of KRas and Rac1 GTPases: Functional Diversity in Health and Disease. <b>2020</b> , 21,  | 7  |
| 695 | Human peptide $\alpha$ -defensin-1 interferes with Clostridioides difficile toxins TcdA, TcdB, and CDT. <b>2020</b> , 34, 6244-6261  | 12 |
| 694 | A RhoGAP venom protein from Microplitis mediator suppresses the cellular response of its host Helicoverpa armigera. <b>2020</b> , 108, 103675  | 1  |
| 693 | Systems analysis of RhoGEF and RhoGAP regulatory proteins reveals spatially organized RAC1 signalling from integrin adhesions. <b>2020</b> , 22, 498-511   | 58 |
| 692 | The Proteomic Landscape of Cysteine Oxidation That Underpins Retinoic Acid-Induced Neuronal Differentiation. <b>2020</b> , 19, 1923-1940   | 3  |
| 691 | Role of cell polarity and planar cell polarity (PCP) proteins in spermatogenesis. <b>2020</b> , 55, 71-87  | 1  |
| 690 | Axon guidance: Slit/Robo signaling. <b>2020</b> , 147-173  |    |
| 689 | Intraocular pressure-lowering effects of ripasudil in uveitic glaucoma, exfoliation glaucoma, and steroid-induced glaucoma patients: ROCK-S, a multicentre historical cohort study. <b>2020</b> , 10, 10308                | 8  |
| 688 | The Rho guanine nucleotide exchange factor P-Rex1 as a potential drug target for cancer metastasis and inflammatory diseases. <b>2020</b> , 153, 104676  | 3  |
| 687 | FAK regulates actin polymerization during sperm capacitation via the ERK2/GEF-H1/RhoA signaling pathway. <b>2020</b> , 133,  | 7  |
| 686 | Acid Ceramidase Depletion Impairs Neuronal Survival and Induces Morphological Defects in Neurites Associated with Altered Gene Transcription and Sphingolipid Content. <b>2020</b> , 21,                                   | 3  |

|     |  |    |
|-----|--|----|
| 685 | Promotion of wound healing by acetate in murine colonic epithelial cell via c-Jun N-terminal kinase activation. <b>2020</b> , 35, 1171-1179  | 3  |
| 684 | Deletion of the Nucleotide Exchange Factor Vav3 Enhances Axonal Complexity and Synapse Formation but Tampers Activity of Hippocampal Neuronal Networks In Vitro. <b>2020</b> , 21,   | 1  |
| 683 | Intraspecific variability in membrane proteome, cell growth, and morphometry of the invasive marine neurotoxic dinoflagellate <i>Alexandrium pacificum</i> grown in metal-contaminated conditions. <b>2020</b> , 715, 136834 | 5  |
| 682 | The Role of Rho GTPases in VEGF Signaling in Cancer Cells. <b>2020</b> , 2020, 2097214   | 6  |
| 681 | Comparative Transcriptome Analyses of Derived From SCID Mice and BALB/c Mice: Clues to the Abnormality in Parasite Growth and Development. <b>2020</b> , 11, 274   | 5  |
| 680 | Distinct influence of the anthracycline derivative doxorubicin on the differentiation efficacy of mESC-derived endothelial progenitor cells. <b>2020</b> , 1867, 118711  | 2  |
| 679 | NOD1 and NOD2 Activation by Diverse Stimuli: a Possible Role for Sensing Pathogen-Induced Endoplasmic Reticulum Stress. <b>2020</b> , 88,  | 8  |
| 678 | Infantile Myelofibrosis and Myeloproliferation with CDC42 Dysfunction. <b>2020</b> , 40, 554-566   | 12 |
| 677 | Single-Cell RNA Sequencing Reveals Renal Endothelium Heterogeneity and Metabolic Adaptation to Water Deprivation. <b>2020</b> , 31, 118-138  | 50 |
| 676 | The UIG-1/CDC-42 guanine nucleotide exchange factor acts in parallel to CED-10/Rac1 during axon outgrowth in. <b>2021</b> , 12, 60-66  | 1  |
| 675 | Aberrant Rac pathway signalling in glioblastoma. <b>2021</b> , 12, 81-95   | 0  |
| 674 | Serotonin receptor 4 regulates hippocampal astrocyte morphology and function. <b>2021</b> , 69, 872-889  | 4  |
| 673 | Transcriptome analysis reveals the effects of sand substrate removal and body colour change of kuruma shrimp, <i>Marsupenaeus japonicus</i> . <b>2021</b> , 52, 577-588  | 4  |
| 672 | Nature-inspired topographies on hydroxyapatite surfaces regulate stem cells behaviour. <b>2021</b> , 6, 1107-1117  | 16 |
| 671 | KALRN: A central regulator of synaptic function and synaptopathies. <b>2021</b> , 768, 145306  | 4  |
| 670 | Coronary Vasomotion Abnormalities. <b>2021</b> ,   | 2  |
| 669 | Microglial G-dependent dynamics regulate brain network hyperexcitability. <b>2021</b> , 24, 19-23  | 25 |
| 668 | Elevated TIAM2 expression promotes tumor progression and is associated with unfavorable prognosis in pancreatic cancer. <b>2021</b> , 56, 59-67  |    |

|     |  |   |
|-----|--|---|
| 667 | Mechanisms Underlying the Comorbidity of Schizophrenia and Type 2 Diabetes Mellitus. <b>2021</b> , 24, 367-382   | 5 |
| 666 | The ginsenoside metabolite compound K stimulates glucagon-like peptide-1 secretion in NCI-H716 cells by regulating the RhoA/ROCKs/YAP signaling pathway and cytoskeleton formation. <b>2021</b> , 145, 88-96 | 1 |
| 665 | Mental wellbeing among people in prison in Scotland: an analysis of repeat cross-sectional surveys. <b>2021</b> , 43, e188-e195  | 3 |
| 664 | GTPases in Hyphal Growth. <b>2021</b> , 32-43  | 0 |
| 663 | PUFA Treatment Affects C2C12 Myocyte Differentiation, Myogenesis Related Genes and Energy Metabolism. <b>2021</b> , 12,  | 2 |
| 662 | Bio-inspired dynamic biomolecule assembling for fine regulation of protein activity. <b>2021</b> , 57, 11205-11208   | 1 |
| 661 | Statins and endocrine resistance in breast cancer.. <b>2021</b> , 4, 356-364   | 1 |
| 660 | Effects and mechanisms of Eps8 on the biological behaviour of malignant tumours (Review). <b>2021</b> , 45, 824-834  | 1 |
| 659 | RHO to the DOCK for GDP disembarking: Structural insights into the DOCK GTPase nucleotide exchange factors. <b>2021</b> , 296, 100521  | 3 |
| 658 | Active and Inactive Cdc42 Differ in Their Insert Region Conformational Dynamics. <b>2021</b> , 120, 306-318  | 7 |
| 657 | Decrease in membrane fluidity and traction force induced by silica-coated magnetic nanoparticles. <b>2021</b> , 19, 21   | 9 |
| 656 | Circ-NOLC1 promotes epithelial ovarian cancer tumorigenesis and progression by binding ESRP1 and modulating CDK1 and RhoA expression. <b>2021</b> , 7, 22  | 6 |
| 655 | Building a ciliated epithelium: Transcriptional regulation and radial intercalation of multiciliated cells. <b>2021</b> , 145, 3-39  | 4 |
| 654 | Phosphoproteomics reveals new insights into the role of PknG during the persistence of pathogenic mycobacteria in host macrophages.  | 1 |
| 653 | Human recombinant arginase I [HuArgI (Co)-PEG5000]-induced arginine depletion inhibits ovarian cancer cell adhesion and migration through autophagy-mediated inhibition of RhoA. <b>2021</b> , 14, 13        | 4 |
| 652 | Targeting the cytoskeleton against metastatic dissemination. <b>2021</b> , 40, 89-140  | 9 |
| 651 | Cytoskeleton   Rho GTPases and Actin Cytoskeleton Dynamics. <b>2021</b> , 268-273  |   |
| 650 | Evaluation and management of atypical femoral fractures: an update of current knowledge. <b>2021</b> , 31, 825-840   | 0 |

|     |  |   |
|-----|--|---|
| 649 | Neurofibromin expression by normal salivary glands. <b>2021</b> , 17, 5  | 1 |
| 648 | A conserved PI(4,5)P2-binding domain is critical for immune regulatory function of DOCK8. <b>2021</b> , 4,   | 3 |
| 647 | Engineering Threshold-Based Selection Systems.   |   |
| 646 | Actin Cytoskeleton and Regulation of TGF $\beta$ Signaling: Exploring Their Links. <b>2021</b> , 11,   | 4 |
| 645 | You Talking to Me? Cadherin and Integrin Crosstalk in Biomaterial Design. <b>2021</b> , 10, e2002048   | 9 |
| 644 | PTEN is required for the migration and invasion of Ras-transformed MDCK cells. <b>2021</b> , 595, 1303-1312  | 1 |
| 643 | Brain endothelial cell tissue-nonspecific alkaline phosphatase (TNAP) activity promotes maintenance of barrier integrity via the ROCK pathway.   | 2 |
| 642 | Muscle Proteomic Profile before and after Enzyme Replacement Therapy in Late-Onset Pompe Disease. <b>2021</b> , 22,  | 3 |
| 641 | Deletion of the Actin-Associated Tropomyosin Leads to Reduced Cell Complexity in Cultured Hippocampal Neurons-New Insights into the Role of the C-Terminal Region of Tpm3.1. <b>2021</b> , 10, | 2 |
| 640 | Dual role of endothelial in tumor angiogenesis and tumor immunity. <b>2021</b> , 13,   | 8 |
| 639 | Interaction between and Its Host, the Subterranean Termite during the Infection Process. <b>2021</b> , 10,   | 4 |
| 638 | Transcriptional Analyses of Acute Exposure to Methylmercury on Erythrocytes of Loggerhead Sea Turtle. <b>2021</b> , 9,   | 1 |
| 637 | Cytoskeletal Transport, Reorganization, and Fusion Regulation in Mast Cell-Stimulus Secretion Coupling. <b>2021</b> , 9, 652077  | 3 |
| 636 | Reciprocal regulation of cellular mechanics and metabolism. <b>2021</b> , 3, 456-468   | 8 |
| 635 | Selective axonal translation of the mRNA isoform encoding prenylated Cdc42 supports axon growth. <b>2021</b> , 134,  | 7 |
| 634 | Spatial regulation of MCAK promotes cell polarization and focal adhesion turnover to drive robust cell migration. <b>2021</b> , 32, 590-604  | 2 |
| 633 | EpCAM promotes endosomal modulation of the cortical RhoA zone for epithelial organization. <b>2021</b> , 12, 2226  | 3 |
| 632 | Translation of cellular protein localization by generative adversarial network.  |   |

|     |   |    |
|-----|---|----|
| 631 | De Novo Nano-Erythrocyte Structurally Braced by Biomimetic Au(I)-peptide Skeleton for MDM2/MDMX Predation toward Augmented Pulmonary Adenocarcinoma Immunotherapy. <b>2021</b> , 17, e2100394         | 8  |
| 630 | Circulating Small Extracellular Vesicles Activate TYRO3 to Drive Cancer Metastasis and Chemoresistance. <b>2021</b> , 81, 3539-3553   | 3  |
| 629 | Regulation of macrophage polarization through surface topography design to facilitate implant-to-bone osteointegration. <b>2021</b> , 7,  | 41 |
| 628 | The Extracellular Matrix Glycoprotein Tenascin C and Adult Neurogenesis. <b>2021</b> , 9, 674199  | 3  |
| 627 | Effector-mediated ERM activation locally inhibits RhoA activity to shape the apical cell domain. <b>2021</b> , 220,   | 8  |
| 626 | Spinophilin modulates pain through suppressing dendritic spine morphogenesis via negative control of Rac1-ERK signaling in rat spinal dorsal horn. <b>2021</b> , 152, 105302                          | 1  |
| 625 | Regulation of Rho GTPases in the Vasculature by Cullin3-Based E3 Ligase Complexes. <b>2021</b> , 9, 680901  | 0  |
| 624 | Rac1, A Potential Target for Tumor Therapy. <b>2021</b> , 11, 674426  | 7  |
| 623 | Rho Kinase regulates neutrophil NET formation that is involved in UVB-induced skin inflammation.  |    |
| 622 | The Integrin Signaling Network Promotes Axon Regeneration via the Src-Ephexin-RhoA GTPase Signaling Axis. <b>2021</b> , 41, 4754-4767   | 3  |
| 621 | Cell Shape and Matrix Stiffness Impact Schwann Cell Plasticity via YAP/TAZ and Rho GTPases. <b>2021</b> , 22,   | 1  |
| 620 | Transcriptome-based identification of the beneficial role of blackcurrant, strawberry and yellow onion to attenuate the cytopathic effects of Clostridium difficile toxins. <b>2021</b> , 11, 231-248 | 1  |
| 619 | Periostin/Filamin-A: A Candidate Central Regulatory Axis for Valve Fibrogenesis and Matrix Compaction. <b>2021</b> , 9, 649862  | 1  |
| 618 | TLR4 signalling via Piezo1 engages and enhances the macrophage mediated host response during bacterial infection. <b>2021</b> , 12, 3519  | 6  |
| 617 | Structural basis for CSPG4 as a receptor for TcdB and a therapeutic target in Clostridioides difficile infection. <b>2021</b> , 12, 3748  | 8  |
| 616 | Actin-Binding Proteins as Potential Biomarkers for Chronic Inflammation-Induced Cancer Diagnosis and Therapy. <b>2021</b> , 2021, 6692811   | 2  |
| 615 | Pharmacologic targeting of Cdc42 GTPase by a small molecule Cdc42 activity-specific inhibitor prevents platelet activation and thrombosis. <b>2021</b> , 11, 13170                                    | 3  |
| 614 | Biophysical interactions between components of the tumor microenvironment promote metastasis. <b>2021</b> , 13, 339-357   | 5  |

|     |  |    |
|-----|--|----|
| 613 | Automatic Actin Filament Quantification and Cell Shape Modeling of Osteoblasts on Charged Ti Surfaces. <b>2021</b> , 11, 5689  | 0  |
| 612 | Ral GTPase-activating protein regulates the malignancy of pancreatic ductal adenocarcinoma. <b>2021</b> , 112, 3064-3073   | 2  |
| 611 | The WAVE complex associates with sites of saddle membrane curvature. <b>2021</b> , 220,  | 9  |
| 610 | FRET and LRET Biosensors for Cell-based Imaging and Screening of Rac1 Activation.  |    |
| 609 | An variant links aberrant Rac1 function to early-onset skeletal fragility. <b>2021</b> , 5, e10509   |    |
| 608 | Yersinia pseudotuberculosis cytotoxic necrotizing factor interacts with glycosaminoglycans. <b>2021</b> , 35, e21647   | 2  |
| 607 | A Small Guanosine Triphosphate Binding Protein Promotes Xylem Development in Poplar. <b>2021</b> , 12, 686024  |    |
| 606 | The RHO Family GTPases: Mechanisms of Regulation and Signaling. <b>2021</b> , 10,  | 13 |
| 605 | New Horizons in the Treatment of Corneal Endothelial Dysfunction. <b>2021</b> , 2021, 6644114  | 4  |
| 604 | Y-27632, a ROCK inhibitor, improved laser-induced shock wave (LISW)-induced cochlear synaptopathy in mice. <b>2021</b> , 14, 105   | 0  |
| 603 | Using to Develop Therapeutics for Acute Respiratory Distress Syndrome. <b>2021</b> , 9, 710005   | 1  |
| 602 | The dipeptide prolyl-hydroxyproline promotes cellular homeostasis and lamellipodia-driven motility via active $\beta$ -integrin in adult tendon cells. <b>2021</b> , 297, 100819 | 3  |
| 601 | Tumor-Associated Protrusion Fluctuations as a Signature of Cancer Invasiveness. <b>2021</b> , 5, e2101019  | 4  |
| 600 | Phosphoinositide Signal Transduction Pathway and Osteosarcoma Metastases. <b>2021</b> , 12,  | 0  |
| 599 | Hhex inhibits cell migration via regulating RHOA/CDC42-CFL1 axis in human lung cancer cells. <b>2021</b> , 19, 80  | 2  |
| 598 | Wrestling and Wrapping: A Perspective on SUMO Proteins in Schwann Cells. <b>2021</b> , 11,   | 0  |
| 597 | The interplay of Rac1 activity, ubiquitination and GDI binding and its consequences for endothelial cell spreading. <b>2021</b> , 16, e0254386                                   | 6  |
| 596 | The Dichloromethane Fraction of , A Plant Used in Sonoran Traditional Medicine, Affect Erythrophagocytosis and Gene Expression. <b>2021</b> , 11, 693449                         |    |



|     |  |   |
|-----|--|---|
| 595 | Post-Translational Modification and Subcellular Compartmentalization: Emerging Concepts on the Regulation and Physiopathological Relevance of RhoGTPases. <b>2021</b> , 10,                    | 4 |
| 594 | Models and Assays for the Assessment of Pertussis Toxin Activity. <b>2021</b> , 13,  | 1 |
| 593 | Decoding cellular deformation from pseudo-simultaneously observed Rho GTPase activities.   |   |
| 592 | A Randomized Controlled Trial of Local Delivery of a Rho Inhibitor (VX-210) in Patients with Acute Traumatic Cervical Spinal Cord Injury. <b>2021</b> , 38, 2065-2072                          | 7 |
| 591 | Yersinia pseudotuberculosis YopE prevents uptake by M cells and instigates M cell extrusion in human ileal enteroid-derived monolayers.  |   |
| 590 | CDK14 Promotes Axon Regeneration by Regulating the Noncanonical Wnt Signaling Pathway in a Kinase-Independent Manner. <b>2021</b> , 41, 8309-8320  | 1 |
| 589 | Translation of Cellular Protein Localization Using Convolutional Networks. <b>2021</b> , 9, 635231   | 1 |
| 588 | MicroRNAs hsa-miR-618 and hsa-miR-297 Might Modulate the Pleiotropic Effects Exerted by Statins in Endothelial Cells Through the Inhibition of ROCK2 Kinase: Approach. <b>2021</b> , 8, 704175 | 1 |
| 587 | Chromosome-scale assembly and whole-genome sequencing of 266 giant panda roundworms provide insights into their evolution, adaptation and potential drug targets. <b>2021</b> ,                | 1 |
| 586 | Nonlinear stress relaxation of transiently crosslinked biopolymer networks. <b>2021</b> , 104, 034418  | 0 |
| 585 | MxRop1-MxrbohD1 interaction mediates ROS signaling in response to iron deficiency in the woody plant Malus xiaojinensis. <b>2021</b> , 313, 111071   | 1 |
| 584 | Cytoskeleton and Membrane Organization at Axon Branches. <b>2021</b> , 9, 707486   | 0 |
| 583 | Association between Statins and Retinal Vascular Occlusion: A Population-Based Cohort Study. <b>2021</b> , 18,   | 0 |
| 582 | Optimizing metastatic-cascade-dependent Rac1 targeting in breast cancer: Guidance using optical window intravital FRET imaging. <b>2021</b> , 36, 109689                                       | 2 |
| 581 | A condensate dynamic instability orchestrates oocyte actomyosin cortex activation.   | 1 |
| 580 | SOS1 promotes epithelial-mesenchymal transition of Epithelial Ovarian Cancer(EOC) cells through AKT independent NF-B signaling pathway. <b>2021</b> , 14, 101160                               | 1 |
| 579 | Notch-1 signaling promotes reattachment of suspended cancer cells by cdc42-dependent microtentacles formation. <b>2021</b> , 112, 4894-4908  | 3 |
| 578 | The actin cytoskeleton and mast cell function. <b>2021</b> , 72, 27-33   | 3 |

|     |  |    |
|-----|--|----|
| 577 | FCHSD2 cooperates with CDC42 and N-WASP to regulate cell protrusion formation. <b>2022</b> , 1869, 119134  | 0  |
| 576 | Cardio- and reno-protective effects of dipeptidyl peptidase III in diabetic mice. <b>2021</b> , 296, 100761  | 2  |
| 575 | Regulation of ARHGAP19 in the endometrial epithelium: a possible role in the establishment of uterine receptivity. <b>2021</b> , 19, 2                   | 1  |
| 574 | Force balancing ACT-IN the tumor microenvironment: Cytoskeletal modifications in cancer and stromal cells to promote malignancy. <b>2021</b> , 360, 1-31 | 2  |
| 573 | RhoA/C and the Actin Cytoskeleton. <b>2005</b> , 113-136   | 2  |
| 572 | Macrophages. <b>2007</b> , 3-25  | 1  |
| 571 | Bacterial virulence strategies that utilize Rho GTPases. <b>2005</b> , 291, 1-10   | 27 |
| 570 | Role of Citron K in the Development of Cerebral Cortex. <b>2006</b> , 92-107   | 1  |
| 569 | Adhesion-Induced Intracellular Mechanisms of Neurite Elongation. <b>2007</b> , 1-24  | 2  |
| 568 | Classification of ovarian cancer: a genomic analysis. <b>2008</b> , 622, 23-33   | 5  |
| 567 | Role of semaphorins during axon growth and guidance. <b>2007</b> , 621, 50-64  | 39 |
| 566 | The Search for Genes Which Influence Prostate Cancer Metastasis: A Moving Target?. <b>2008</b> , 21-61   | 2  |
| 565 | Rho GTPase-Activating Proteins in Cancer. <b>2010</b> , 93-107   | 1  |
| 564 | RhoC GTPase in Cancer Progression and Metastasis. <b>2010</b> , 123-134  | 2  |
| 563 | Traveling Waves in One-Dimensional Excitable Media. <b>2014</b> , 63-99  | 9  |
| 562 | Calcium Waves and Sparks. <b>2014</b> , 137-181  | 1  |
| 561 | Waves in Excitable Neural Fields. <b>2014</b> , 271-318  | 1  |
| 560 | The function of neuropilin/plexin complexes. <b>2002</b> , 515, 71-80  | 31 |

|     |  |    |
|-----|--|----|
| 559 | The EGF Receptor Signaling System. <b>2002</b> , 57-79   | 2  |
| 558 | Modulation of the Cytoskeletal Architecture by Calcium. <b>1998</b> , 177-196  | 1  |
| 557 | Rho GTPases in hematopoietic stem/progenitor cell migration. <b>2011</b> , 750, 307-19   | 9  |
| 556 | A quantitative fluorometric approach for measuring the interaction of RhoGDI with membranes and Rho GTPases. <b>2012</b> , 827, 107-19 | 1  |
| 555 | Cytoskeleton and Nucleotide Signaling in Glioma C6 Cells. <b>2020</b> , 1202, 109-128  | 3  |
| 554 | Volume Regulation in Epithelia. <b>2020</b> , 395-460  | 3  |
| 553 | Tomorrow's anticancer agents: inhibitors of Ras farnesylation. <b>2000</b> , 89, 153-79  | 2  |
| 552 | Tight junctions and adherens junctions in endothelial Cells: structure and regulation. <b>1999</b> , 109-124                           | 2  |
| 551 | The establishment of retinal connectivity. <b>2002</b> , 37, 205-18  | 4  |
| 550 | ROP GTPases and the Cytoskeleton. <b>2010</b> , 91-104   | 3  |
| 549 | The Breast as a Developing Organ. <b>2004</b> , 11-48  | 6  |
| 548 | Regulation of the actin cytoskeleton by PI(4,5)P2 and PI(3,4,5)P3. <b>2004</b> , 282, 117-63   | 85 |
| 547 | Molecular mechanisms underlying beta-arrestin-dependent chemotaxis and actin-cytoskeletal reorganization. <b>2014</b> , 219, 341-59    | 13 |
| 546 | Molecular Mechanisms of Action of the Large Clostridial Cytotoxins. <b>2000</b> , 307-331  | 14 |
| 545 | Molecular Biology of Large Clostridial Toxins. <b>2000</b> , 333-359   | 2  |
| 544 | The Cytotoxic Necrotizing Factor 1 from Escherichia Coli. <b>2000</b> , 361-384  | 5  |
| 543 | Genetics of Clostridium difficile toxins. <b>2000</b> , 250, 35-54   | 6  |
| 542 | Cytotoxic effects of the Clostridium difficile toxins. <b>2000</b> , 250, 85-96  | 43 |

|     |  |    |
|-----|--|----|
| 541 | Control of the Response to Biotic Stresses. <b>2000</b> , 83-101   | 2  |
| 540 | Signaling Mechanisms of Axon Guidance and Early Synaptogenesis. <b>2013</b> , 19-48  | 14 |
| 539 | Proteases in Death Pathways. <b>2013</b> , 265-302   | 2  |
| 538 | Bacterial Protein Toxins Acting on Small GTPases. <b>2014</b> , 65-97  | 2  |
| 537 | Mechanical Stretch-Induced Reorganization of the Cytoskeleton and the Small GTPase Rac-1 in Cardiac Fibroblasts. <b>2010</b> , 35-54 | 1  |
| 536 | Molecules That Drive the Invasion and Metastasis of Inflammatory Breast Cancer. <b>2012</b> , 161-184                                | 3  |
| 535 | Immunoglobulin superfamily receptors and adherens junctions. <b>2012</b> , 60, 137-70  | 19 |
| 534 | The Interaction of Calmodulin with Novel Target Proteins. <b>2000</b> , 541-563  | 3  |
| 533 | RHO Gtpases and the Actin Cytoskeleton. <b>2000</b> , 301-321  | 6  |
| 532 | Actin in Pollen and Pollen Tubes. <b>2000</b> , 323-345  | 8  |
| 531 | Structure and Function of Actin Filaments in Mature Guard Cells. <b>2000</b> , 427-436   | 16 |
| 530 | Plant Actin Cytoskeletal Responses to Attack and Invasion by Pathogenic Fungi. <b>2000</b> , 573-585                                 | 2  |
| 529 | Are podocytes motile?. <b>2017</b> , 469, 951-957  | 9  |
| 528 | Sexual incompatibility in Rosaceae fruit tree species: molecular interactions and evolutionary dynamics.                             | 1  |
| 527 | Attack of the nervous system by clostridial toxins: physical findings, cellular and molecular actions. <b>2006</b> , 348-389         | 11 |
| 526 | RNA Localization and Signal Transduction. <b>2003</b> , 293-297  | 2  |
| 525 | ORGANIZATION OF CELLS INTO HIGHER ORDERED STRUCTURES. <b>2000</b> , 19-31  | 1  |
| 524 | Antagonists of Rho Family GTPases. <b>2002</b> , 361-377   | 1  |

|     |  |     |
|-----|--|-----|
| 523 | Rac, Superoxide, and Signal Transduction. <b>2000</b> , 47-79  | 1   |
| 522 | A kinetic study of the kinesin ATPase.. <b>1992</b> , 267, 11352-11359   | 54  |
| 521 | A Novel RalGEF-like Protein, RGL3, as a Candidate Effector for Rit and Ras. <b>2000</b> , 275, 26914-26924   | 57  |
| 520 | Tyrosine Phosphorylation of Paxillin Is Involved in Temporospacial Regulation of Paxillin-containing Focal Adhesion Formation and F-actin Organization in Motile Cells. <b>2000</b> , 275, 27155-27164 <sup>93</sup>                   |     |
| 519 | GTPases and Phosphatidylinositol 3-Kinase Are Critical for Insulin-like Growth Factor-I-mediated Schwann Cell Motility. <b>2000</b> , 275, 27197-27204   | 66  |
| 518 | Effects of Ethanol on Mechanisms Regulating Neuronal Process Outgrowth. <b>2006</b> , 230-244  | 4   |
| 517 | Identification of genes controlling malpighian tubule and other epithelial morphogenesis in <i>Drosophila melanogaster</i> . <b>1999</b> , 151, 685-95   | 31  |
| 516 | Embryonic morphogenesis in <i>Caenorhabditis elegans</i> integrates the activity of LET-502 Rho-binding kinase, MEL-11 myosin phosphatase, DAF-2 insulin receptor and FEM-2 PP2c phosphatase. <b>2000</b> , 156, 1671-89               | 48  |
| 515 | Genetic structure and evolution of RAC-GTPases in <i>Arabidopsis thaliana</i> . <b>2000</b> , 156, 1959-71   | 104 |
| 514 | Cell polarity and hyphal morphogenesis are controlled by multiple rho-protein modules in the filamentous ascomycete <i>Ashbya gossypii</i> . <b>2001</b> , 157, 601-10   | 105 |
| 513 | Genetic interactions between the RhoA and Stubble-stubblod loci suggest a role for a type II transmembrane serine protease in intracellular signaling during <i>Drosophila</i> imaginal disc morphogenesis. <b>2003</b> , 165, 1417-32 | 25  |
| 512 | The spleen in the Wiskott-Aldrich syndrome: histopathologic abnormalities of the white pulp correlate with the clinical phenotype of the disease. <b>1999</b> , 23, 182-91   | 36  |
| 511 | RAC2 GTPase deficiency and myeloid cell dysfunction in human and mouse. <b>2002</b> , 24, 791-4  | 21  |
| 510 | Enteropathogenic <i>Escherichia coli</i> (EPEC)-- a crafty subversive little bug. <b>2002</b> , 148, 1967-1978   | 28  |
| 509 | Spatial Organization of Rho GTPase signaling by RhoGEF/RhoGAP proteins.  | 2   |
| 508 | WAVE complex self-organization templates lamellipodial formation.  | 3   |
| 507 | Structural insights into filament recognition by cellular actin markers.   | 4   |
| 506 | A putative exchange factor for Rho1 GTPase is required for initiation of cytokinesis in <i>Drosophila</i> . <b>1999</b> , 13, 2301-14  | 216 |

|     |   |      |
|-----|---|------|
| 505 | The adapter proteins LAT and SLP-76 are required for T-cell activation. <b>1999</b> , 64, 265-74  | 9    |
| 504 | ECT2 promotes lung adenocarcinoma progression through extracellular matrix dynamics and focal adhesion signaling. <b>2021</b> , 112, 703-714  | 8    |
| 503 | Knowing How to Navigate: Mechanisms of Semaphorin Signaling in the Nervous System. <b>2002</b> , 2002, re1-re1  | 8    |
| 502 | Intracellular Invasion by Streptococcus pyogenes: Invasins, Host Receptors, and Relevance to Human Disease. 29-36   | 3    |
| 501 | Effector Molecules of Shigella Pathogenesis and Host Responses. 455-479   | 1    |
| 500 | Pathogenicity of Clostridium difficile Toxins. 503-524  | 6    |
| 499 | Clostridium difficile toxin B induces apoptosis in intestinal cultured cells. <b>1998</b> , 66, 2660-5  | 72   |
| 498 | Cytotoxic necrotizing factor type 2 produced by pathogenic Escherichia coli deamidates a gln residue in the conserved G-3 domain of the rho family and preferentially inhibits the GTPase activity of RhoA and rac1. <b>1999</b> , 67, 6550-7 | 29   |
| 497 | YopJ of Yersinia spp. is sufficient to cause downregulation of multiple mitogen-activated protein kinases in eukaryotic cells. <b>1999</b> , 67, 708-16   | 89   |
| 496 | Interruption of multiple cellular processes in HT-29 epithelial cells by Pseudomonas aeruginosa exoenzyme S. <b>1999</b> , 67, 2847-54  | 45   |
| 495 | Effect of Escherichia coli cytotoxic necrotizing factor 1 on repair of human bladder cell monolayers in vitro. <b>1999</b> , 67, 3657-61  | 10   |
| 494 | Alphavirus replicase protein NSP1 induces filopodia and rearrangement of actin filaments. <b>1998</b> , 72, 10265-9   | 44   |
| 493 | RhoA interacts with the fusion glycoprotein of respiratory syncytial virus and facilitates virus-induced syncytium formation. <b>1999</b> , 73, 7262-70   | 61   |
| 492 | Cdc42: An essential Rho-type GTPase controlling eukaryotic cell polarity. <b>1999</b> , 63, 54-105  | 414  |
| 491 | B cell-derived IL-4 acts on podocytes to induce proteinuria and foot process effacement. <b>2017</b> , 2,   | 32   |
| 490 | Statin-induced inhibition of the Rho-signaling pathway activates PPARalpha and induces HDL apoA-I. <b>2001</b> , 107, 1423-32   | 324  |
| 489 | Epithelial-mesenchymal transition and its implications for fibrosis. <b>2003</b> , 112, 1776-84   | 1017 |
| 488 | Binding of pro-prion to filamin A disrupts cytoskeleton and correlates with poor prognosis in pancreatic cancer. <b>2009</b> , 119, 2725-36   | 65   |

|     |  |     |
|-----|--|-----|
| 487 | CHD1L promotes hepatocellular carcinoma progression and metastasis in mice and is associated with these processes in human patients. <b>2010</b> , 120, 1178-91                      | 114 |
| 486 | The IL-1 receptor and Rho directly associate to drive cell activation in inflammation. <b>1999</b> , 103, 1561-70  | 106 |
| 485 | The PI(A2) polymorphism of integrin beta(3) enhances outside-in signaling and adhesive functions. <b>2000</b> , 105, 793-802   | 112 |
| 484 | Neuroprotection mediated by changes in the endothelial actin cytoskeleton. <b>2000</b> , 106, 15-24  | 219 |
| 483 | Normal Arp2/3 complex activation in platelets lacking WASp. <b>2002</b> , 100, 2113-2122   | 6   |
| 482 | Spontaneous Apoptosis in Lymphocytes From Patients With Wiskott-Aldrich Syndrome: Correlation of Accelerated Cell Death and Attenuated Bcl-2 Expression. <b>1999</b> , 94, 3872-3882 | 3   |
| 481 | Ras Proteins: Recent Advances and New Functions. <b>1999</b> , 94, 2971-2980   | 7   |
| 480 | Integrin-associated protein/CD47 regulates motile activity in human B-cell lines through CDC42. <b>2000</b> , 96, 234-241  | 6   |
| 479 | Cellular signaling in macrophage migration and chemotaxis. <b>2000</b> , 68, 593-602   | 45  |
| 478 | Statins suppress THP-1 cell migration and secretion of matrix metalloproteinase 9 by inhibiting geranylgeranylation. <b>2001</b> , 69, 959-962                                       | 18  |
| 477 | Amoeboid leukocyte crawling through extracellular matrix: lessons from the Dictyostelium paradigm of cell movement. <b>2001</b> , 70, 491-509  | 49  |
| 476 | Regulation of nuclear factor B activation by G-protein-coupled receptors. <b>2001</b> , 70, 839-848  | 24  |
| 475 | Pseudohyphal Growth in Yeast. <b>2002</b> ,  | 3   |
| 474 | Biogenesis of Epithelial Polarity and Tight Junctions. <b>2001</b> ,   | 4   |
| 473 | Integrin Regulation in Wound Repair. <b>2000</b> , 63-97   | 2   |
| 472 | Tight Junctions of the BloodBrain Barrier. <b>2005</b> , 47-69   | 2   |
| 471 | Slit2 inhibits glioma cell invasion in the brain by suppression of Cdc42 activity. <b>2009</b> , 11, 779-89  | 47  |
| 470 | Slit2 inhibits glioma cell invasion in the brain by suppression of Cdc42 activity. <b>2009</b> , 11, 779-789   | 61  |

|     |   |     |
|-----|---|-----|
| 469 | A role for rhoB in the delamination of neural crest cells from the dorsal neural tube. <b>1998</b> , 125, 5055-5067   | 191 |
| 468 | Involvement of the small GTPases XRhoA and XRnd1 in cell adhesion and head formation in early <i>Xenopus</i> development. <b>1999</b> , 126, 5339-5351                                    | 96  |
| 467 | Mutations in the Rho1 small GTPase disrupt morphogenesis and segmentation during early <i>Drosophila</i> development. <b>1999</b> , 126, 5353-5364  | 125 |
| 466 | Rac1 mutations produce aberrant epithelial differentiation in the developing and adult mouse small intestine. <b>2000</b> , 127, 2629-2642  | 60  |
| 465 | Role of frizzled 7 in the regulation of convergent extension movements during gastrulation in <i>Xenopus laevis</i> . <b>2000</b> , 127, 3091-3100  | 236 |
| 464 | Synaptic development is controlled in the periaxial zones of <i>Drosophila</i> synapses. <b>2000</b> , 127, 4157-4168   | 96  |
| 463 | Establishment of left/right asymmetry in neuroblast migration by UNC-40/DCC, UNC-73/Trio and DPY-19 proteins in <i>C. elegans</i> . <b>2000</b> , 127, 4655-4668                          | 73  |
| 462 | The adhesion signaling molecule p190 RhoGAP is required for morphogenetic processes in neural development. <b>2000</b> , 127, 4891-4903   | 154 |
| 461 | DRacGAP, a novel <i>Drosophila</i> gene, inhibits EGFR/Ras signalling in the developing imaginal wing disc. <b>2000</b> , 127, 5427-5438  | 19  |
| 460 | <i>Drosophila</i> puckered regulates Fos/Jun levels during follicle cell morphogenesis. <b>2001</b> , 128, 1845-1856  | 31  |
| 459 | Abnormal function of astroglia lacking Abr and Bcr RacGAPs. <b>2001</b> , 128, 4217-4227  | 57  |
| 458 | Three <i>C. elegans</i> Rac proteins and several alternative Rac regulators control axon guidance, cell migration and apoptotic cell phagocytosis. <b>2001</b> , 128, 4475-4488           | 170 |
| 457 | Ephrin-B ligands play a dual role in the control of neural crest cell migration. <b>2002</b> , 129, 3621-3632   | 149 |
| 456 | Rho1 interacts with p120ctn and E-catenin, and regulates cadherin-based adherens junction components in <i>Drosophila</i> . <b>2002</b> , 129, 3771-3782                                  | 128 |
| 455 | The plakin Short Stop and the RhoA GTPase are required for E-cadherin-dependent apical surface remodeling during tracheal tube fusion. <b>2002</b> , 129, 1509-1520                       | 75  |
| 454 | Translocation of cortactin to the cell periphery is mediated by the small GTPase Rac1. <b>1998</b> , 111, 2433-2443   | 158 |
| 453 | Disruption of dynamic cell surface architecture of NIH3T3 fibroblasts by the N-terminal domains of moesin and ezrin: in vivo imaging with GFP fusion proteins. <b>1999</b> , 112, 111-125 | 57  |
| 452 | The polarization of the motile cell. <b>1999</b> , 112, 1803-1811   | 125 |



|     |   |     |
|-----|---|-----|
| 451 | Trio amino-terminal guanine nucleotide exchange factor domain expression promotes actin cytoskeleton reorganization, cell migration and anchorage-independent cell growth. <b>1999</b> , 112, 1825-1834 | 51  |
| 450 | Vascular-endothelial-cadherin modulates endothelial monolayer permeability. <b>1999</b> , 112, 1915-1923  | 161 |
| 449 | Rho family GTPases control entry of <i>Shigella flexneri</i> into epithelial cells but not intracellular motility. <b>1999</b> , 112, 2069-2080   | 100 |
| 448 | Coronin localizes to leading edges and is involved in cell spreading and lamellipodium extension in vertebrate cells. <b>1999</b> , 112, 2833-2842  | 49  |
| 447 | Activation of the small GTPase Cdc42 by the inflammatory cytokines TNF(alpha) and IL-1, and by the Epstein-Barr virus transforming protein LMP1. <b>1999</b> , 112, 2983-2992                           | 111 |
| 446 | Cytoskeletal changes induced by GRAF, the GTPase regulator associated with focal adhesion kinase, are mediated by Rho. <b>1999</b> , 112, 231-242   | 73  |
| 445 | Initiation and maturation of I-Z-I bodies in the growth tips of transfected myotubes. <b>1999</b> , 112, 4101-4112  | 43  |
| 444 | Cell adhesion and Rho small GTPases. <b>1999</b> , 112, 4491-4500   | 69  |
| 443 | Involvement of Rho GTPases in calcium-regulated exocytosis from adrenal chromaffin cells. <b>1999</b> , 112, 4763-4771  | 48  |
| 442 | ARF6 requirement for Rac ruffling suggests a role for membrane trafficking in cortical actin rearrangements. <b>1999</b> , 112, 855-866   | 259 |
| 441 | Regulation of actin organisation by TGF-beta in H-ras-transformed fibroblasts. <b>1999</b> , 112, 1169-1179   | 83  |
| 440 | Rac1 GTPases control filopodia formation, cell motility, endocytosis, cytokinesis and development in <i>Dictyostelium</i> . <b>2000</b> , 113, 2253-2265  | 90  |
| 439 | Meltrin gamma(ADAM-9) mediates cellular adhesion through alpha(6)beta(1)integrin, leading to a marked induction of fibroblast cell motility. <b>2000</b> , 113, 2319-2328                               | 147 |
| 438 | Dynamic, Rho1p-dependent localization of Pkc1p to sites of polarized growth. <b>2000</b> , 113, 2685-2693   | 54  |
| 437 | Involvement of Iba1 in membrane ruffling and phagocytosis of macrophages/microglia. <b>2000</b> , 113, 3073-3084  | 260 |
| 436 | The mammalian homologue of the <i>Caenorhabditis elegans</i> polarity protein PAR-6 is a binding partner for the Rho GTPases Cdc42 and Rac1. <b>2000</b> , 113, 3267-3275                               | 122 |
| 435 | c-Cbl localizes to actin lamellae and regulates lamellipodia formation and cell morphology. <b>2000</b> , 113, 215-226  | 59  |
| 434 | Clustering of cell surface (beta)1,4-galactosyltransferase I induces transient tyrosine phosphorylation of focal adhesion kinase and loss of stress fibers. <b>2000</b> , 113, 237-245                  | 24  |

|     |  |     |
|-----|--|-----|
| 433 | TrioGEF1 controls Rac- and Cdc42-dependent cell structures through the direct activation of rhoG. <b>2000</b> , 113, 729-739   | 139 |
| 432 | Actin filaments and microtubules play different roles during bristle elongation in <i>Drosophila</i> . <b>2000</b> , 113, 1255-1265  | 51  |
| 431 | Determination of cell polarity in germinated spores and hyphal tips of the filamentous ascomycete <i>Ashbya gossypii</i> requires a rhoGAP homolog. <b>2000</b> , 113, 1611-1621                       | 50  |
| 430 | WASP and WAVE family proteins: key molecules for rapid rearrangement of cortical actin filaments and cell movement. <b>2001</b> , 114, 1801-1809   | 467 |
| 429 | Recruitment and activation of Rac1 by the formation of E-cadherin-mediated cell-cell adhesion sites. <b>2001</b> , 114, 1829-1838  | 222 |
| 428 | Rho GTPases and cell migration. <b>2001</b> , 114, 2713-2722   | 819 |
| 427 | Rho-dependent transfer of Citron-kinase to the cleavage furrow of dividing cells. <b>2001</b> , 114, 3273-3284   | 68  |
| 426 | Tara, a novel F-actin binding protein, associates with the Trio guanine nucleotide exchange factor and regulates actin cytoskeletal organization. <b>2001</b> , 114, 389-399                           | 72  |
| 425 | Characterization of functional domains of mDia1, a link between the small GTPase Rho and the actin cytoskeleton. <b>2001</b> , 114, 3663-3672  | 45  |
| 424 | Cell motility: can Rho GTPases and microtubules point the way?. <b>2001</b> , 114, 3795-3803   | 336 |
| 423 | Molecular mechanisms regulating the subcellular localization of p95-APP1 between the endosomal recycling compartment and sites of actin organization at the cell surface. <b>2001</b> , 114, 4509-4520 | 48  |
| 422 | p120 catenin affects cell motility via modulation of activity of Rho-family GTPases: a link between cell-cell contact formation and regulation of cell locomotion. <b>2001</b> , 114, 695-707          | 205 |
| 421 | Localization of a mammalian homolog of diaphanous, mDia1, to the mitotic spindle in HeLa cells. <b>2001</b> , 114, 775-784   | 101 |
| 420 | Effects of cytochalasin D and latrunculin B on mechanical properties of cells. <b>2001</b> , 114, 1025-1036  | 321 |
| 419 | Integrin regulation of cell-cell adhesion during epithelial tubule formation. <b>2001</b> , 114, 941-952   | 46  |
| 418 | The GTPase Rac1 selectively regulates <i>Salmonella</i> invasion at the apical plasma membrane of polarized epithelial cells. <b>2001</b> , 114, 1331-1341   | 76  |
| 417 | 9Rgr; and Rac but not Cdc42 regulate endothelial cell permeability. <b>2001</b> , 114, 1343-1355   | 367 |
| 416 | N-WASP, WAVE and Mena play different roles in the organization of actin cytoskeleton in lamellipodia. <b>2001</b> , 114, 1555-1565   | 84  |

|     |   |     |
|-----|---|-----|
| 415 | Phosphatidylinositol 3-kinase mediates integrin-dependent NF- $\kappa$ B and MAPK activation through separate signaling pathways. <b>2001</b> , 114, 1579-1589                        | 42  |
| 414 | Cas, Fak and Pyk2 function in diverse signaling cascades to promote Yersinia uptake. <b>2002</b> , 115, 2689-2700   | 48  |
| 413 | Expression of BRG1, a human SWI/SNF component, affects the organisation of actin filaments through the RhoA signalling pathway. <b>2002</b> , 115, 2735-2746                          | 28  |
| 412 | p38 mitogen-activated protein kinase is required for TGF $\beta$ -mediated fibroblastic transdifferentiation and cell migration. <b>2002</b> , 115, 3193-3206                         | 343 |
| 411 | Leukotriene D4 induces stress-fibre formation in intestinal epithelial cells via activation of RhoA and PKC $\delta$ . <b>2002</b> , 115, 3509-3515                                   | 25  |
| 410 | The Rho GTPase family: a Racs to Wrchs story. <b>2002</b> , 115, 239-240  | 98  |
| 409 | Rho GTPases link cytoskeletal rearrangements and activation processes induced via the tetraspanin CD82 in T lymphocytes. <b>2002</b> , 115, 433-443                                   | 76  |
| 408 | Human p63RhoGEF, a novel RhoA-specific guanine nucleotide exchange factor, is localized in cardiac sarcomere. <b>2002</b> , 115, 629-640  | 44  |
| 407 | Ephrin-A5 induces rounding, blebbing and de-adhesion of EphA3-expressing 293T and melanoma cells by CrkII and Rho-mediated signalling. <b>2002</b> , 115, 1059-1072                   | 138 |
| 406 | The Cdc42 and Rac1 GTPases are required for capillary lumen formation in three-dimensional extracellular matrices. <b>2002</b> , 115, 1123-1136                                       | 188 |
| 405 | Microvilli-like structures are associated with the internalization of virulent capsulated <i>Neisseria meningitidis</i> into vascular endothelial cells. <b>2002</b> , 115, 1231-1241 | 101 |
| 404 | GIT1 functions in a motile, multi-molecular signaling complex that regulates protrusive activity and cell migration. <b>2002</b> , 115, 1497-1510                                     | 152 |
| 403 | Activation of SGK1 by HGF, Rac1 and integrin-mediated cell adhesion in MDCK cells: PI-3K-dependent and -independent pathways. <b>2002</b> , 115, 1985-1993                            | 37  |
| 402 | Bridging from single to collective cell migration: A review of models and links to experiments. <b>2020</b> , 16, e1008411  | 18  |
| 401 | The Calponin Family Member CHDP-1 Interacts with Rac/CED-10 to Promote Cell Protrusions. <b>2016</b> , 12, e1006163   | 6   |
| 400 | Excess circulating angiopoietin-2 may contribute to pulmonary vascular leak in sepsis in humans. <b>2006</b> , 3, e46   | 373 |
| 399 | T cells' immunological synapses induce polarization of brain astrocytes in vivo and in vitro: a novel astrocyte response mechanism to cellular injury. <b>2008</b> , 3, e2977         | 43  |
| 398 | Scapinin, the protein phosphatase 1 binding protein, enhances cell spreading and motility by interacting with the actin cytoskeleton. <b>2009</b> , 4, e4247                          | 27  |

|     |  |    |
|-----|--|----|
| 397 | Multiple functions of Nm23-H1 are regulated by oxido-reduction system. <b>2009</b> , 4, e7949  | 34 |
| 396 | Actin re-organization induced by Chlamydia trachomatis serovar D--evidence for a critical role of the effector protein CT166 targeting Rac. <b>2010</b> , 5, e9887             | 44 |
| 395 | Rac1 is required for epithelial stem cell function during dermal and oral mucosal wound healing but not for tissue homeostasis in mice. <b>2010</b> , 5, e10503                | 79 |
| 394 | Pdro, a protein associated with late endosomes and lysosomes and implicated in cellular cholesterol homeostasis. <b>2010</b> , 5, e10977                                       | 16 |
| 393 | RhoA regulates peroxisome association to microtubules and the actin cytoskeleton. <b>2010</b> , 5, e13886  | 28 |
| 392 | Gene targeting implicates Cdc42 GTPase in GPVI and non-GPVI mediated platelet filopodia formation, secretion and aggregation. <b>2011</b> , 6, e22117                          | 49 |
| 391 | Deficiency of mDia, an actin nucleator, disrupts integrity of neuroepithelium and causes periventricular dysplasia. <b>2011</b> , 6, e25465                                    | 44 |
| 390 | The promigratory activity of the matricellular protein galectin-3 depends on the activation of PI-3 kinase. <b>2011</b> , 6, e29313  | 11 |
| 389 | Non-small cell lung carcinoma cell motility, rac activation and metastatic dissemination are mediated by protein kinase C epsilon. <b>2012</b> , 7, e31714                     | 42 |
| 388 | Automated screening of microtubule growth dynamics identifies MARK2 as a regulator of leading edge microtubules downstream of Rac1 in migrating cells. <b>2012</b> , 7, e41413 | 27 |
| 387 | Cofilin/Twinstar phosphorylation levels increase in response to impaired coenzyme a metabolism. <b>2012</b> , 7, e43145  | 11 |
| 386 | Rho-ROCK and Rac-PAK signaling pathways have opposing effects on the cell-to-cell spread of Marek's Disease Virus. <b>2012</b> , 7, e44072                                     | 17 |
| 385 | Tetraspanin CD82 inhibits protrusion and retraction in cell movement by attenuating the plasma membrane-dependent actin organization. <b>2012</b> , 7, e51797                  | 32 |
| 384 | Gleevec, an Abl family inhibitor, produces a profound change in cell shape and migration. <b>2013</b> , 8, e52233  | 14 |
| 383 | EspO1-2 regulates EspM2-mediated RhoA activity to stabilize formation of focal adhesions in enterohemorrhagic Escherichia coli-infected host cells. <b>2013</b> , 8, e55960    | 19 |
| 382 | Rap1 GTPase activation and barrier enhancement in rpe inhibits choroidal neovascularization in vivo. <b>2013</b> , 8, e73070   | 23 |
| 381 | Cell cycle-dependent Rho GTPase activity dynamically regulates cancer cell motility and invasion in vivo. <b>2013</b> , 8, e83629  | 53 |
| 380 | Cyclic strain-induced cytoskeletal rearrangement of human periodontal ligament cells via the Rho signaling pathway. <b>2014</b> , 9, e91580                                    | 22 |

|     |   |     |
|-----|---|-----|
| 379 | Arhgap28 is a RhoGAP that inactivates RhoA and downregulates stress fibers. <b>2014</b> , 9, e107036  | 16  |
| 378 | Critical role of exogenous nitric oxide in ROCK activity in vascular smooth muscle cells. <b>2014</b> , 9, e109017  | 17  |
| 377 | The effect of enterohemorrhagic E. coli infection on the cell mechanics of host cells. <b>2014</b> , 9, e112137   | 7   |
| 376 | ARAP3 functions in hematopoietic stem cells. <b>2014</b> , 9, e116107   | 2   |
| 375 | Receptor for Advanced Glycation End-Products Signaling Interferes with the Vascular Smooth Muscle Cell Contractile Phenotype and Function. <b>2015</b> , 10, e0128881   | 32  |
| 374 | Reduced CYFIP1 in Human Neural Progenitors Results in Dysregulation of Schizophrenia and Epilepsy Gene Networks. <b>2016</b> , 11, e0148039   | 21  |
| 373 | BteA Secreted from the Bordetella bronchiseptica Type III Secetion System Induces Necrosis through an Actin Cytoskeleton Signaling Pathway and Inhibits Phagocytosis by Macrophages. <b>2016</b> , 11, e0148387                                     | 12  |
| 372 | Reduced Expression of Galectin-9 Contributes to a Poor Outcome in Colon Cancer by Inhibiting NK Cell Chemotaxis Partially through the Rho/ROCK1 Signaling Pathway. <b>2016</b> , 11, e0152599   | 26  |
| 371 | Distinctive Effects of Cytochalasin B in Chick Primary Myoblasts and Fibroblasts. <b>2016</b> , 11, e0154109  | 9   |
| 370 | Sensitivity Analysis of the NPM-ALK Signalling Network Reveals Important Pathways for Anaplastic Large Cell Lymphoma Combination Therapy. <b>2016</b> , 11, e0163011  | 9   |
| 369 | Genome-Wide Association of Heroin Dependence in Han Chinese. <b>2016</b> , 11, e0167388   | 22  |
| 368 | Small Heat Shock Protein B-Crystallin Controls Shape and Adhesion of Glioma and Myoblast Cells in the Absence of Stress. <b>2016</b> , 11, e0168136   | 15  |
| 367 | Bcl-xL Affects Group A Streptococcus-Induced Autophagy Directly, by Inhibiting Fusion between Autophagosomes and Lysosomes, and Indirectly, by Inhibiting Bacterial Internalization via Interaction with Beclin 1-UVRAG. <b>2017</b> , 12, e0170138 | 14  |
| 366 | Transcriptomic profile of leg muscle during early growth in chicken. <b>2017</b> , 12, e0173824   | 34  |
| 365 | Coordinated balance of Rac1 and RhoA plays key roles in determining phagocytic appetite. <b>2017</b> , 12, e0174603   | 25  |
| 364 | Inductions of granulosa cell luteinization and cumulus expansion are dependent on the fibronectin-integrin pathway during ovulation process in mice. <b>2018</b> , 13, e0192458   | 10  |
| 363 | Citron binds to PSD-95 at glutamatergic synapses on inhibitory neurons in the hippocampus. <b>1999</b> , 19, 96-108   | 150 |
| 362 | Structural insights into actin filament recognition by commonly used cellular actin markers. <b>2020</b> , 39, e104006  | 20  |

|     |  |    |
|-----|--|----|
| 361 | Disintegrins: integrin selective ligands which activate integrin-coupled signaling and modulate leukocyte functions. <b>2005</b> , 38, 1513-20   | 26 |
| 360 | Evidence of a role for Ki-Ras in the stimulated proliferation of renal fibroblasts. <b>1999</b> , 10, 1186-92  | 18 |
| 359 | [Formation of bone in critical calvarias defects in rats under the influence of bisphosphonate alendronate Na complex]. <b>2017</b> , 96, 8-11   | 1  |
| 358 | Hax-1 is required for Rac1-Cortactin interaction and ovarian carcinoma cell migration. <b>2014</b> , 5, 84-99  | 17 |
| 357 | Co-expression modules of NF1, PTEN and sprouty enable distinction of adult diffuse gliomas according to pathway activities of receptor tyrosine kinases. <b>2016</b> , 7, 59098-59114                    | 9  |
| 356 | KDM4B-mediated epigenetic silencing of miRNA-615-5p augments RAB24 to facilitate malignancy of hepatoma cells. <b>2017</b> , 8, 17712-17725  | 30 |
| 355 | A role for activated Cdc42 in glioblastoma multiforme invasion. <b>2016</b> , 7, 56958-56975   | 22 |
| 354 | Filamin C promotes lymphatic invasion and lymphatic metastasis and increases cell motility by regulating Rho GTPase in esophageal squamous cell carcinoma. <b>2017</b> , 8, 6353-6363                    | 15 |
| 353 | Methylation-mediated silencing of microRNA-211 promotes cell growth and epithelial to mesenchymal transition through activation of the AKT/ $\beta$ catenin pathway in GBM. <b>2017</b> , 8, 25167-25176 | 15 |
| 352 | Polyisoprenylated cysteinyl amide inhibitors disrupt actin cytoskeleton organization, induce cell rounding and block migration of non-small cell lung cancer. <b>2017</b> , 8, 31726-31744               | 11 |
| 351 | Secretome analysis of breast cancer-associated adipose tissue to identify paracrine regulators of breast cancer growth. <b>2017</b> , 8, 47239-47249   | 9  |
| 350 | CdGAP/ARHGAP31 is regulated by RSK phosphorylation and binding to 14-3-3 $\beta$ adaptor protein. <b>2018</b> , 9, 11646-11664   | 5  |
| 349 | Paradoxical role of CBX8 in proliferation and metastasis of colorectal cancer. <b>2014</b> , 5, 10778-90   | 38 |
| 348 | Divergent behaviors and underlying mechanisms of cell migration and invasion in non-metastatic T24 and its metastatic derivative T24T bladder cancer cell lines. <b>2015</b> , 6, 522-36                 | 43 |
| 347 | Lipin-1 regulates cancer cell phenotype and is a potential target to potentiate rapamycin treatment. <b>2015</b> , 6, 11264-80   | 49 |
| 346 | NDN is an imprinted tumor suppressor gene that is downregulated in ovarian cancers through genetic and epigenetic mechanisms. <b>2016</b> , 7, 3018-32   | 9  |
| 345 | Interplay between PCBP2 and miRNA modulates ARHGDI1 expression and function in glioma migration and invasion. <b>2016</b> , 7, 19483-98  | 32 |
| 344 | Lovastatin lactone elicits human lung cancer cell apoptosis via a COX-2/PPAR $\alpha$ -dependent pathway. <b>2016</b> , 7, 10345-62  | 33 |

|     |   |    |
|-----|---|----|
| 343 | Crucial role of Anxa2 in cancer progression: highlights on its novel regulatory mechanism. <b>2019</b> , 16, 671-687  | 13 |
| 342 | The Effect of Physical Cues on the Stem Cell Differentiation. <b>2019</b> , 14, 268-277   | 8  |
| 341 | Suppression of Rho activation process due to simulated microgravity induced cytoskeletal disorganization. <b>2006</b> , 20, 75-79   | 1  |
| 340 | Effect of Photobiomodulation on Wound Healing of the Corneal Epithelium through Rho-GTPase. <b>2017</b> , 6, 67-76  | 6  |
| 339 | Identification of Important Proteins and Pathways Affecting Feed Efficiency in DLY Pigs by iTRAQ-Based Proteomic Analysis. <b>2020</b> , 10,  | 4  |
| 338 | Escherichia coli cytotoxic necrotizing factor 1 (CNF1): toxin biology, in vivo applications and therapeutic potential. <b>2010</b> , 2, 283-96                                      | 20 |
| 337 | Localization and translocation of RhoA protein in the human gastric cancer cell line SGC-7901. <b>2008</b> , 14, 1175-81  | 13 |
| 336 | Roscovitine synergizes with conventional chemo-therapeutic drugs to induce efficient apoptosis of human colorectal cancer cells. <b>2008</b> , 14, 5162-75                          | 20 |
| 335 | Rebamipide promotes healing of colonic ulceration through enhanced epithelial restitution. <b>2011</b> , 17, 3802-9   | 17 |
| 334 | Isolation of a novel member of small G protein superfamily and its expression in colon cancer. <b>2003</b> , 9, 1719-24   | 9  |
| 333 | miR-224-5p protects dental pulp stem cells from apoptosis by targeting Rac1. <b>2020</b> , 19, 9-18   | 9  |
| 332 | Curcumin rescues breast cells from epithelial-mesenchymal transition and invasion induced by anti-miR-34a. <b>2020</b> , 56, 480-493  | 15 |
| 331 | Physical role of nuclear and cytoskeletal confinements in cell migration mode selection and switching. <b>2017</b> , 4, 615-658   | 5  |
| 330 | Signaling filopodia in avian embryogenesis: formation and function. <b>2016</b> , 3, 683-691  | 1  |
| 329 | Involvement of Rho kinase (ROCK) in sepsis-induced acute lung injury. <b>2012</b> , 4, 30-9   | 26 |
| 328 | Rho/ROCK pathway and neural regeneration: a potential therapeutic target for central nervous system and optic nerve damage. <b>2011</b> , 4, 652-7                                  | 43 |
| 327 | Rac GTPases: domain-specific functions in neuronal development. <b>2019</b> , 14, 1367-1368   | 1  |
| 326 | Luteolin attenuates migration and invasion of lung cancer cells via suppressing focal adhesion kinase and non-receptor tyrosine kinase signaling pathway. <b>2020</b> , 14, 127-133 | 20 |

|     |  |    |
|-----|--|----|
| 325 | Molecular classifications of gastric cancers: Novel insights and possible future applications. <b>2017</b> , 9, 194-208                                      | 38 |
| 324 | Dynamic interplay between adhesion surfaces in carcinomas: Cell-cell and cell-matrix crosstalk. <b>2016</b> , 7, 64-77                                       | 5  |
| 323 | GPR78 promotes lung cancer cell migration and metastasis by activation of G $\alpha$ -Rho GTPase pathway. <b>2016</b> , 49, 623-628                          | 13 |
| 322 | The effect of nano-scale topography on osteogenic differentiation of mesenchymal stem cells. <b>2014</b> , 158, 5-16   | 20 |
| 321 | Spaceflight alters the gene expression profile of cervical cancer cells. <b>2011</b> , 30, 842-52  | 9  |
| 320 | Anaplastic large cell lymphoma: twenty-five years of discovery. <b>2011</b> , 135, 19-43   | 83 |
| 319 | Exchange protein activated by cAMP (EPAC) controls migration of vascular smooth muscle cells in concentration- and time-dependent manner. <b>2015</b> , 2, 2 | 3  |
| 318 | Loss of Cdc42 leads to defects in synaptic plasticity and remote memory recall. <b>2014</b> , 3,   | 67 |
| 317 | Distinct mesoderm migration phenotypes in extra-embryonic and embryonic regions of the early mouse embryo. <b>2019</b> , 8,                                  | 26 |
| 316 | Investigation of shear force of a single adhesion cell using a self-sensitive cantilever and fluorescence microscopy. <b>2015</b> , 54, 08LB03               | 2  |
| 315 | IL-1 $\beta$ in atherosclerotic vascular calcification: From bench to bedside. <b>2021</b> , 17, 4353-4364   | 2  |
| 314 | Structural basis for selective modification of Rho and Ras GTPases by toxin B. <b>2021</b> , 7, eabi4582   | 1  |
| 313 | Role of actin cytoskeleton in the organization and function of ionotropic glutamate receptors. <b>2021</b> , 3, 277-289                                      | 0  |
| 312 | Pathways Mediating Signal Transduction and Cell Cycle Progression in Lymphocytes. <b>2000</b> , 74-200   |    |
| 311 | Zelluläre Mikrobiologie. <b>2000</b> , 151-166   |    |
| 310 | Mitogenic Signal Transduction. <b>2000</b> , 75-91   |    |
| 309 | Transduction of Inhibitory Signals by the Axonal Growth Cone. <b>2000</b> , 131-153  |    |
| 308 | Sphingosine-1-phosphate and lysophosphatidic acid trigger invasion of primitive hematopoietic cells into stromal cell layers. <b>2000</b> , 96, 139-144      | 0  |



307 Mutation in bcr/abl hybrid gene as a possible factor of tumor progression during CML. **2000**, 16, 482-486

306 Excitation-Secretion Coupling. **2001**, 705-723

305 Molecular Mechanisms of Matrix Metalloproteinase-1 Gene Expression in Hepatic Stellate Cells. **2001**, 336-339

304 Calcium Transients Signal Ooplasmic Segregation through the Small GTPase rho in Ascidian Eggs. **2001**, 80-85

303 Zellen. **2001**, 21-56

302 A Role for the Gtpase Pathway in Neuronal Damage after Cerebral Ischemia: The Impact of the DNA Array Technique on Stroke Research. **2001**, 3-9

301 Normal Cell Structure and Function. **2001**, 21-53

300 Intracellular Signaling in Classical and New Tight Junction Functions. **2001**,

299 Ischemia-Induced Tight Junction Dysfunction in the Kidney. **2001**,

298 Statins and their potential for osteoporosis.

297 Trio : Un facteur d'échange des GTPases Rho aux multiples facettes impliquées dans le guidage axonal. **2001**, 17, 1316-1321

296 Rho GTPases.

295 GTP-Binding Proteins.

294 Signalling pathways operated by non-receptor protein tyrosine kinases. **2002**, 283-297

293 Pleiotropic effects of HMG-CoA reductase inhibitors on cells of the vascular wall. **2002**, 81-98

292 Actin-Binding Proteins.

291 Diaphanous.

290 The Endometrial Epithelium. **2002**, 292-313

- 289 Cell Adhesion-Dependent Signaling Pathways on Biomaterials Surfaces. **2002**,
- 288 Micro- and Nanoscale Organizations of Proteins Modulate Cell- Extracellular Matrix Interactions Lessons for the Design of Biomaterials. **2002**,
- 287 Involvement of ROCK-II in Caerulein-induced Acute Pancreatitis. **2003**, 15, 109-117
- 286 Integrin Signaling: Cell Migration, Proliferation, and Survival. **2003**, 463-469
- 285 Endocytosis and Cytoskeleton. **2003**, 411-418
- 284 Structural Features of RhoGEFs. **2003**, 751-755
- 283 Rho Proteins and Their Effects on the Actin Cytoskeleton. **2003**, 701-704
- 282 Molekulare Mechanismen von Zell-Zell-Wechselwirkungen. **2003**, 213-252
- 281 VEGF and the Angiopoietins Activate Numerous Signaling Pathways that Govern Angiogenesis. **2003**, 849-854
- 280 Cadherins: Interactions and Regulation of Adhesivity. **2003**, 889-899
- 279 Control of Caenorhabditis Elegans Behaviour and Development by G Proteins Big and Small. **2004**, 195-242
- 278 Rebeck Windows: Granulocyte Function. **2005**, 419-427
- 277 Methods of Probing Phosphoinositides-Protein Interactions. **2005**, 189-210
- 276 Polyamines and Cytoskeletal Regulation During Intestinal Epithelial Restitution. **2006**, 349-362
- 275 Mucosal Repair and Restitution. **2006**, 459-475
- 274 Signaling Mechanisms for Positive and Negative Regulation of Cell Motility by Sphingosine-1-Phosphate Receptors. **2006**, 415-425
- 273 RHO Proteins in RAS Signaling and Transformation. **2006**, 143-167
- 272 Focal Adhesion Kinase in Neuritogenesis. **2007**, 155-179

271 Small GTPases: Mechanisms Linking Membrane Traffic to Cytoskeleton During Neuritogenesis. **2007**, 89-114

270 RhoA kinase inhibitor, fasudil, protects against crescentic glomerulonephritis via podocyte protection.. **2007**, 53, 106-112

269 Role of Rho A and F-actin for uropod formation in T lymphocytes. **2007**, 17, 192-197

268 Cellular Immune Responses in *Drosophila melanogaster*. **2008**, 73-91

1

267 Cell Structure, Function, and Genetics. **2008**, 37-73

266 Expression of RhoA in Colorectal Cancers and Its Clinicopathological Significance. **2008**, 24, 460

265 Phosphoinositides Signaling and Epithelial-to-Mesenchymal Transition: Putative Topic for Basic Toxicological Research. **2008**, 24, 1-9

264 Allosteric Regulation by Membrane-binding Domains. 423

263 Integrin Signaling. 1

262 Role of Sirtuins in Aging and Tumorigenesis. **2008**, 151-180

261 MOLECULAR DETERMINANTS OF MICROBIAL PATHOGENESIS. **2009**, 2-21

260 Small monomeric GTPase. **2009**, 476-493

259 Generation of Rac1 conditional mutant mice by Cre/loxP system. **2009**, 175-178

258 Rho GTPases in Regulation of Cancer Cell Motility, Invasion, and Microenvironment. **2010**, 67-91

257 Signaling through G $\alpha$ 12/13 and RGS-RhoGEFs. **2010**, 59-76

256 EGFR Signaling Pathways in Pancreatic Cancer Pathogenesis. **2010**, 387-402

255 Targeting RhoC by Way of Ribozyme Transgene in Human Breast Cancer Cells and its Impact on Cancer Invasion. **2010**, 1, 7-13

1

254 Cdc42 and Its Cellular Functions. **2010**, 1785-1794

0

253 Structural Features of RhoGEFs. **2010**, 1843-1847

252 Antioxidative Properties of Statins in the Heart. **2010**, 557-566

251 Actin Reorganization in Nerve Morphogenesis.

250 Actin and Neuronal Polarity. **2011**, 161-176

1

249 Genetics of X-linked Mental Retardation.

248 Cytokines and Tight Junctions. **2011**, 17-30

247 Systemic and Targeted Therapy. **2012**, 85-99

246 Effects of Methylmercury on Cellular Signal Transduction Systems. **2012**, 229-240

245 PAK1 in Alzheimer's and Huntington's Diseases. **2013**, 107-124

244 Neuron Physiology. **2013**, 53-95

243 Metabolism of Methylarginines and Angiogenesis. **2013**, 241-260

242 3-4 Identification of Molecular Network Regulating the Random Cell Migration Based on the Quantitative FRET Imaging and Mathematical Modeling. **2013**, 67, 776-780

241 The Functional Role of the Microtubule/Microfilament Cytoskeleton in the Regulation of Pulmonary Vascular Endothelial Barrier. **2013**,

240 Population Models and Neural Fields. **2014**, 233-269

239 Waves in Synaptically Coupled Spiking Networks. **2014**, 185-231

238 Waves in the Developing and the Diseased Brain. **2014**, 349-404

237 Neural Field Model of Binocular Rivalry Waves. **2014**, 319-345

1

236 Self-Organization in Cells II: Reaction-Diffusion Models. **2014**, 497-575

- 235 Rho Kinases and Ischemic Cerebrovascular Diseases. **2014**, 03, 19-21
- 234 Potential New Drugs for Endometriosis: Experimental Evidence. **2014**, 235-249
- 233 Emerging Roles of Phospholipase D in Pathophysiological Signaling. **2014**, 359-379
- 232 Signaling Pathways Downstream of the Guidance Cues and Receptors. **2014**, 47-71
- 231 Multisite Phosphorylation of the Guanine Nucleotide Exchange Factor Cdc24 during Yeast Cell Polarization. **2014**, 79-106
- 230 Membrane Traffic in the Endocytic Pathway of Eukaryotic Cells. 203-226
- 229 Integrated axon-synapse unit in the central nervous system. **1999**, 3-22
- 228 Type III Secretion Machinery and Effectors. 149-177
- 227 The Alterations of Microcirculation in Burns. **2015**, 7-29
- 226 A functional role for reptin in molecular mechanism of invasiveness of human oral squamous cell carcinomas. **2015**, 61, 204-211
- 225 Barrier Enhancing Signals. **2015**, 85-113
- 224 Actin Reorganisation in Nerve Morphogenesis. 1-10
- 223 In vivo hematopoietic Myc activation directs a transcriptional signature in endothelial cells within the bone marrow microenvironment. **2015**, 6, 21827-39
- 222 Protein Kinases and Caspases: Bidirectional Interactions in Apoptosis. 85-114
- 221 Odontogenic Ameloblast-Associated Protein (Odam) Plays Crucial Roles in Osteoclast Differentiation via Control of Actin Ring Formation. **2015**, 8, 74-81
- 220 The effects of sodium fluoride on oral normal cell cultured in vitro. **2016**, 16, 471-477
- 219 Reactive Oxygen Species in the Cardiovascular System. **2016**, 287-303
- 218 Chaotic propagation of spatial cytoskeletal instability modulates integrity of podocyte foot processes.

- 217 Encyclopedia of Signaling Molecules. **2017**, 1-7
- 216 EGFR (ErbB) Signaling Pathways in Pancreatic Cancer Pathogenesis. **2017**, 1-26 0
- 215 Shigella: Virulence Factors and Pathogenicity. **2017**, 169-208
- 214 Defects in Rho GTPase Signaling to the Spine Actin Cytoskeleton in FMR1 Knockout Mice. **2017**, 277-299 0
- 213 SRGAP2 and the gradual evolution of the modern human language faculty.
- 212 MicroRNA expression analysis of feline and canine parvovirus infection in vivo (felis). **2017**, 12, e0185698 3
- 211 Selective Filopodia Adhesion Ensures Robust Cell Matching in the Drosophila Heart.
- 210 Encyclopedia of Signaling Molecules. **2018**, 4408-4414
- 209 Distinct CED-10/Rac1 Domains Confer Context-Specific Functions in Neuronal Development.
- 208 Basic research on the development of a novel periodontal disease treatment targeting cytoskeleton-regulating molecules. **2018**, 60, 117-122
- 207 Distinct mesoderm migration phenotypes in extra-embryonic and embryonic regions of the early mouse embryo.
- 206 Transition from normal to cancerous cell by precancerous niche (PCN) induced chronic cell-matrix stress. **2019**, 2, 14 3
- 205 Deciphering the mechanoresponsive role of Eatenin in Keratoconus epithelium.
- 204 Mitofusin 2 regulates neutrophil adhesive migration and the actin cytoskeleton. 1
- 203 Identification of Gene Changes Induced by Dexamethasone in the Anterior Segment of the Human Eye Using Bioinformatics Analysis. **2019**, 25, 5501-5509 2
- 202 G protein-coupled receptor signaling regulates ER-mitochondria contacts.
- 201 Glycosaminoglycans are specific endosomal receptors for Yersinia pseudotuberculosis Cytotoxic Necrotizing Factor.
- 200 Multiplexed quantitative screens of single cell shape and YAP/TAZ localisation identify DOCK5 as a coincident detector of polarity and adhesion during migration.

- 199 Human Recombinant Arginase I [HuArgI(Co)-PEG5000]-Induced Arginine Depletion Inhibits Pancreatic Cancer Cell Migration and Invasion Through Autophagy. **2021**, 50, 1187-1194 1
- 198 The Formation of Melanocyte Apoptotic Bodies in Vitiligo and the Relocation of Vitiligo Autoantigens under Oxidative Stress. **2021**, 2021, 7617839 2
- 197 Genetic Code Expansion Tools to Study Lysine Acylation. **2021**, 5, e2100926 3
- 196 Analysis of NIS Plasma Membrane Interactors Discloses Key Regulation by a SRC/RAC1/PAK1/PIP5K/EZRIN Pathway with Potential Implications for Radioiodine Re-Sensitization Therapy in Thyroid Cancer. **2021**, 13, 0
- 195 Pathophysiology and Molecular Mechanisms of Coronary Artery Spasm. **2021**, 21-37
- 194 Analysis of the effect of trichloroacetic acid and epidermal growth factor release on cytoskeleton gene expression using the nano-controlled releasing system. **2020**, 58, 290
- 193 Principles of Epithelial Transport. **2020**, 53-82
- 192 Endosomal spatio-temporal modulation of the cortical RhoA zone conditions epithelial cell organization.
- 191 Spatial Regulation of MCAK Promotes Cell Polarization and Focal Adhesion Turnover to Drive Robust Cell Migration.
- 190  $\beta$ -adrenergic receptor regulates ER-mitochondria contacts. **2021**, 11, 21477 1
- 189 RhoA effectors LOK/SLK activate ERM proteins to locally inhibit RhoA and define apical morphology.
- 188 Understanding Hyaluronan Receptor (CD44) Interaction, HA-CD44 Activated Potential Targets in Cancer Therapeutics. **2021**, 11, 426-438 4
- 187 Metabolism and Gene Expression in Liver Regeneration. **2004**, 177-200 1
- 186 Regulation of E-Cadherin-Mediated Cell-Cell Adhesion by Rho Family GTPases. **2005**, 255-266
- 185 Regulation of Paracellular Transport across Tight Junctions by the Actin Cytoskeleton. **2006**, 135-145
- 184 Regulation of Cell-Cell Adhesion by Rho Family GTPases. **2005**, 157-189
- 183 Molecular Correlates of Fragile X Syndrome and FXTAS. **2006**, 57-85
- 182 Getting Directions: Axon Guidance Receptors Find the Way. **1999**, 1999, pe1-pe1

- 181 Ras GTPases: Singing in Tune. **2001**, 2001, pe1-pe1
- 180 Carboxyl Methylation of Small GTPases and Endothelial Cell Function. **2005**, 51-60
- 179 Induced Regeneration of Skin and Peripheral Nerves. **2006**, 83-103
- 178 A Model of Pattern Coupled to Form in Metazoans. **2008**, 45-86
- 177 Role of Plasma Gelsolin Protein in the Final Stage of Erythropoiesis and in Correction of Erythroid Dysplasia In Vitro. **2020**, 21, 1
- 176 PKN delays mitotic timing by inhibition of Cdc25C: possible involvement of PKN in the regulation of cell division. **2001**, 98, 125-9 14
- 175 The Drosophila HEM-2/NAP1 homolog KETTE controls axonal pathfinding and cytoskeletal organization. **2000**, 14, 863-73 38
- 174 Signal transduction pathway regulating prostaglandin EP3 receptor-induced neurite retraction: requirement for two different tyrosine kinases. **1999**, 340 ( Pt 2), 365-9 10
- 173 cDNA cloning and characterization of guinea-pig leukotriene B4 receptor. **1999**, 342 ( Pt 1), 79-85 5
- 172 Ras effector pathway activation by epidermal growth factor is inhibited in vivo by exoenzyme S ADP-ribosylation of Ras. **2000**, 347 Pt 1, 217-22 14
- 171 Rho GTPases and their effector proteins. **2000**, 348 Pt 2, 241-55 617
- 170 Tyrosine phosphorylation of the vascular endothelial-growth-factor receptor-2 (VEGFR-2) is modulated by Rho proteins. **2000**, 348 Pt 2, 273-80 10
- 169 Involvement of cytosolic phospholipase A2, and the subsequent release of arachidonic acid, in signalling by rac for the generation of intracellular reactive oxygen species in rat-2 fibroblasts. **2000**, 348 Pt 3, 525-30 13
- 168 Human adenovirus type 37 and the BALB/c mouse: progress toward a restricted adenovirus keratitis model (an American Ophthalmological Society thesis). **2006**, 104, 346-65 15
- 167 Myofibroblasts: paracrine cells important in health and disease. **2000**, 111, 271-92; discussion 292-3 33
- 166 Theodore E. Woodward Award. How bacterial enterotoxins work: insights from in vivo studies. **2002**, 113, 167-80; discussion 180-1 15
- 165 Redox regulation of ephrin/integrin cross-talk. **2007**, 1, 33-42 9
- 164 ECM-stimulated signaling and actin reorganization in embryonic corneal epithelia are Rho dependent. **2002**, 43, 3181-9 4



|     |   |    |
|-----|---|----|
| 163 | Developmental expression of three small GTPases in the mouse eye. <b>2007</b> , 13, 1144-53   | 26 |
| 162 | The status of intercellular junctions in established lens epithelial cell lines. <b>2012</b> , 18, 2937-46  | 10 |
| 161 | Polyisoprenylated methylated protein methyl esterase overexpression and hyperactivity promotes lung cancer progression. <b>2014</b> , 4, 116-34                                       | 9  |
| 160 | Effect of shRNA targeted against RhoA on proliferation and migration of human colonic cancer cells. <b>2015</b> , 8, 7040-4   | 3  |
| 159 | Down-regulation of miR-106b induces epithelial-mesenchymal transition but suppresses metastatic colonization by targeting Prrx1 in colorectal cancer. <b>2015</b> , 8, 10534-44       | 18 |
| 158 | In vitro and in vivo antiangiogenic activity of desacetylvinblastine monohydrate through inhibition of VEGFR2 and Axl pathways. <b>2016</b> , 6, 843-58                               | 12 |
| 157 | Abnormal expression of p190RhoGAP in colorectal cancer patients with poor survival. <b>2016</b> , 8, 4405-4414  | 6  |
| 156 | Codon bias among synonymous rare variants is associated with Alzheimer's disease imaging biomarker. <b>2018</b> , 23, 365-376   | 6  |
| 155 | Use of Rho kinase Inhibitors in Ophthalmology: A Review of the Literature. <b>2018</b> , 7, 101-111   | 17 |
| 154 | Platelet-rich plasma in combination with adipose-derived stem cells promotes skin wound healing through activating Rho GTPase-mediated signaling pathway. <b>2019</b> , 11, 4100-4112 | 3  |
| 153 | ROCK I Has More Accurate Prognostic Value than MET in Predicting Patient Survival in Colorectal Cancer. <b>2015</b> , 35, 3267-73   | 6  |
| 152 | The Drosophila HEM-2/NAP1 homolog KETTE controls axonal pathfinding and cytoskeletal organization. <b>2000</b> , 14, 863-873  | 56 |
| 151 | Sodium hydrogen exchanger (NHE1) palmitoylation and potential functional regulation. <b>2021</b> , 288, 120142  | 0  |
| 150 | Oxidized Phospholipids in Control of Endothelial Barrier Function: Mechanisms and Implication in Lung Injury. <b>2021</b> , 12, 794437  | 1  |
| 149 | Role of mammalian target of rapamycin complex 2 in primary and secondary liver cancer. <b>2021</b> , 13, 1632-1647  | 1  |
| 148 | EBV LMP1-activated mTORC1 and mTORC2 Coordinately Promote Nasopharyngeal Cancer Stem Cell Formation.  |    |
| 147 | Advances in the study of CDC42 in the female reproductive system. <b>2021</b> ,   | 1  |
| 146 | Yersinia pseudotuberculosis YopE prevents uptake by M cells and instigates M cell extrusion in human ileal enteroid-derived monolayers. <b>2021</b> , 13, 1988390                     | 2  |

|     |   |   |
|-----|---|---|
| 145 | EBV LMP1-activated mTORC1 and mTORC2 Coordinately Promote Nasopharyngeal Cancer Stem Cell Properties.. <b>2022</b> , jvi0194121   | 0 |
| 144 | Expression and distribution of EPHA4 and Ephrin A3 in Aohan fine-wool sheep skin.. <b>2022</b> , 65, 11-19  |   |
| 143 | Phosphoproteomic profiling of influenza virus entry reveals infection-triggered filopodia induction counteracted by dynamic cortactin phosphorylation.. <b>2022</b> , 38, 110306            | 1 |
| 142 | Cdc42/Rac Interactive Binding Containing Effector Proteins in Unicellular Protozoans With Reference to Human Host: Locks of the Rho Signaling.. <b>2022</b> , 13, 781885                    |   |
| 141 | Liquiritigenin alleviates doxorubicin-induced chronic heart failure via promoting ARHGAP18 and suppressing RhoA/ROCK1 pathway.. <b>2022</b> , 411, 113008                                   | 3 |
| 140 | Novel rapid immunohistochemistry using an alternating current electric field identifies Rac and Cdc42 activation in human colon cancer FFPE tissues.. <b>2022</b> , 12, 1733                | 1 |
| 139 | Inter-relationship of Histone Deacetylase-6 with Tau-cytoskeletal organization and remodeling.. <b>2022</b> , 101, 151202   |   |
| 138 | Rho Kinase regulates neutrophil NET formation that is involved in UVB-induced skin inflammation.. <b>2022</b> , 12, 2133-2149   | 2 |
| 137 | LIM Kinases in Osteosarcoma Development.. <b>2021</b> , 10,   | 2 |
| 136 | Combinatorial Effects of RhoA and Cdc42 on the Actin Cytoskeleton Revealed by Photoswitchable GEFs.   |   |
| 135 | Regulatory mechanisms of the early phase of white adipocyte differentiation: an overview.. <b>2022</b> , 79, 139  | 2 |
| 134 | A Dynamic Mass Redistribution Assay for the Human Sweet Taste Receptor Uncovers G-Protein Dependent Biased Ligands.. <b>2022</b> , 13, 832529   | 1 |
| 133 | Effect of micro-strain stress on in vitro proliferation and functional expression of human osteoarthritic chondrocytes.. <b>2022</b> , 17, 93   |   |
| 132 | Attenuated clinical and osteoclastic phenotypes of Paget's disease of bone linked to the p.Pro392Leu/SQSTM1 mutation by a rare variant in the DOCK6 gene.. <b>2022</b> , 15, 41             | 0 |
| 131 | Structure and conformational dynamics of toxin A.. <b>2022</b> , 5,   | 0 |
| 130 | Super-resolution imaging with metal-induced energy transfer reveals effect of force on the actin cytoskeleton. <b>2022</b> ,  | 0 |
| 129 | Faster resonance energy transfer biosensors for fluorescence and time-gated luminescence analysis of rac1 activity.. <b>2022</b> , 12, 5291   | 3 |
| 128 | Expression of a RhoA-Specific Guanine Nucleotide Exchange Factor, p190RhoGEF, in Mouse Macrophages Negatively Affects M1 Polarization and Inflammatory Responses.. <b>2022</b> , 13, 782475 | 1 |

|     |   |   |
|-----|---|---|
| 127 | The role of Hippo pathway signaling and A-kinase anchoring protein 13 in primordial follicle activation and inhibition.. <b>2022</b> , 3, 118-129   | 0 |
| 126 | Cell size and actin architecture determine force generation in optogenetically activated adherent cells.  |   |
| 125 | Sulforaphane suppresses metastasis of triple-negative breast cancer cells by targeting the RAF/MEK/ERK pathway.. <b>2022</b> , 8, 40  | 2 |
| 124 | EhRho6 mediated actin degradation in Entamoeba histolytica is associated with compromised pathogenicity.. <b>2022</b> ,   |   |
| 123 | Long-term exposure to low concentrations of MC-LR induces blood-testis barrier damage through the RhoA/ROCK pathway.. <b>2022</b> , 236, 113454   | 2 |
| 122 | Polydopamine-mediated graphene oxide and nanohydroxyapatite-incorporated conductive scaffold with an immunomodulatory ability accelerates periodontal bone regeneration in diabetes.. <b>2022</b> , 18, 213-227 | 8 |
| 121 | Approaches of the Innate Immune System to Ameliorate Adaptive Immunotherapy for B-Cell Non-Hodgkin Lymphoma in Their Microenvironment.. <b>2021</b> , 14,   | 2 |
| 120 | Syk-MyD88 Axis Is a Critical Determinant of Inflammatory-Response in Activated Macrophages.. <b>2021</b> , 12, 767366   | 2 |
| 119 | iTRAQ-Based Quantitative Proteomic Analysis Reveals Toxicity Mechanisms in Chlamys farreri Exposed to Okadaic Acid. <b>2021</b> , 8,  | 1 |
| 118 | is a 3D matrix-specific mediator of mechanosensitive stem cell lineage commitment.. <b>2022</b> , 8, eabm4646   | 3 |
| 117 | Perspectives on Mechanisms Supporting Neuronal Polarity From Small Animals to Humans.. <b>2022</b> , 10, 878142   | 0 |
| 116 | Molecular characterization of a profilin gene from a parasitic ciliate Cryptocaryon irritans.. <b>2022</b> , 108248   |   |
| 115 | Data_Sheet_1.xlsx. <b>2020</b> ,  |   |
| 114 | Data_Sheet_2.docx. <b>2020</b> ,  |   |
| 113 | Data_Sheet_1.pdf. <b>2019</b> ,   |   |
| 112 | Table_1.DOCX. <b>2019</b> ,   |   |
| 111 | Data_Sheet_1.zip. <b>2020</b> ,   |   |
| 110 | DataSheet1.DOCX. <b>2018</b> ,  |   |

109 Image1.TIF. 2018,

108 Image2.TIF. 2018,

107 Image3.TIF. 2018,

106 Image4.TIF. 2018,

105 Video1.MP4. 2018,

104 Video2.MP4. 2018,

103 Video3.MP4. 2018,

102 Video4.MP4. 2018,

101 Video5.MP4. 2018,

100 Video6.MP4. 2018,

99 Video7.MP4. 2018,

98 Video8.MP4. 2018,

97 Video9.MP4. 2018,

96 DataSheet1.XLSX. 2018,

95 DataSheet2.PDF. 2018,

94 DataSheet3.XLSX. 2018,

93 DataSheet4.PDF. 2018,

92 DataSheet5.XLSX. 2018,

|    |   |   |
|----|---|---|
| 91 | DataSheet6.TIF. <b>2018,</b>  |   |
| 90 | DataSheet7.XLSX. <b>2018,</b>   |   |
| 89 | The biogenesis and secretion of exosomes and multivesicular bodies (MVBs): Intercellular shuttles and implications in human diseases. <b>2022,</b>  | 3 |
| 88 | Role of the Wnt and GTPase pathways in breast cancer tumorigenesis and treatment. <b>2022,</b>  | 0 |
| 87 | ROCK 1 and 2 affect the spatial architecture of 3D spheroids derived from human corneal stromal fibroblasts in different manners.. <b>2022,</b> 12, 7419  | 1 |
| 86 | Gain-of-function p.F28S variant in RAC3 disrupts neuronal differentiation, migration and axonogenesis during cortical development, leading to neurodevelopmental disorder. jmedgenet-2022-108483 <sup>o</sup> |   |
| 85 | Social Regulation of Egg Size Plasticity in the Honey Bee is Mediated by Cytoskeleton Organizer Rho1.   |   |
| 84 | Morphogen gradient orchestrates pattern-preserving tissue morphogenesis via motility-driven (un)jamming.  | 0 |
| 83 | Epithelial to mesenchymal transition: The history, regulatory mechanism, and cancer therapeutic opportunities. <b>2022,</b> 3,  | 4 |
| 82 | Guanine nucleotide exchange factor DOCK11-binding peptide fused with a single chain antibody inhibits Hepatitis B Virus infection and replication. <b>2022,</b> 102097  | 0 |
| 81 | The Rationale for Using Neridronate in Musculoskeletal Disorders: From Metabolic Bone Diseases to Musculoskeletal Pain. <b>2022,</b> 23, 6921   | 0 |
| 80 | SRF: a seriously responsible factor in cardiac development and disease. <b>2022,</b> 29,  | 1 |
| 79 | The Role of Hypoxia in Improving the Therapeutic Potential of Mesenchymal Stromal Cells. A Comparative Study From Healthy Lung and Congenital Pulmonary Airway Malformations in Infants. 10,                  |   |
| 78 | The complex of Fas-associated factor 1 with Hsp70 stabilizes the adherens junction integrity by suppressing RhoA activation.  | 1 |
| 77 | A single-nucleus transcriptomics study of alcohol use disorder in the nucleus accumbens.  |   |
| 76 | In Situ Assembly of Platinum(II)-Metallopeptide Nanostructures Disrupts Energy Homeostasis and Cellular Metabolism.   | 1 |
| 75 | Neurons protect themselves by active shrinkage upon axonal transection.   |   |
| 74 | The Effects of Poria cocos on Rho Signaling-Induced Regulation of Mobility and F-Actin Aggregation in MK-801-Treated B35 and C6 Cells. <b>2022,</b> 2022, 1-10  | 0 |

|    |   |   |
|----|---|---|
| 73 | Construction of a Hierarchical Micro-/Submicro-/Nanostructured 3D-Printed Ti6Al4V Surface Feature to Promote Osteogenesis: Involvement of Sema7A through the ITGB1/FAK/ERK Signaling Pathway. <b>2022</b> , 14, 30571-30581 | 4 |
| 72 | Transient neuroinflammation following surgery contributes to long-lasting cognitive decline in elderly rats via dysfunction of synaptic NMDA receptor. <b>2022</b> , 19,  | 1 |
| 71 | Nuclear RAC1 is a modulator of the doxorubicin-induced DNA damage response. <b>2022</b> , 1869, 119320  | 1 |
| 70 | Combinatorial effects of RhoA and Cdc42 on the actin cytoskeleton revealed by photoswitchable GEFs. <b>2022</b> , 369, 132316   | 0 |
| 69 | Role of hepatic stellate cells in liver ischemia-reperfusion injury. 13,  | 1 |
| 68 | Statins in Liver Cirrhosis. <b>2022</b> , 179-204   |   |
| 67 | Pleiotropic Benefits of Statins in Cardiovascular Diseases.   | 0 |
| 66 | A condensate dynamic instability orchestrates actomyosin cortex activation.   | 0 |
| 65 | Dysfunction of Ras-GAP protein AfgapA contributes to hypoxia fitness in <i>Aspergillus fumigatus</i> .  |   |
| 64 | Autoinhibition of the GEF activity of cytoskeletal regulatory protein Trio is disrupted in neurodevelopmental disorder-related genetic variants.. <b>2022</b> , 102361  | 0 |
| 63 | The receptor for advanced glycation end products and its ligands expression in OVE26 diabetic sciatic nerve during the development of length-dependent neuropathy.  |   |
| 62 | Rho-kinase inhibitors: Role in corneal endothelial disorders. 1-6   |   |
| 61 | Differential modulation of collybistin conformational dynamics by the closely related GTPases Cdc42 and TC10. 14,   | 0 |
| 60 | Microphysiological vascular malformation model reveals a role of dysregulated Rac1 and mTORC1/2 in lesion formation.  | 0 |
| 59 | Harmine inhibits proliferation and migration of glioblastoma via ERK signalling. <b>2022</b> , 122, 356-362   | 0 |
| 58 | Rho family small GTPases control migration of hematopoietic progenitor cells into multicellular spheroids of bone marrow stroma cells. <b>2002</b> , 72, 837-845  | 1 |
| 57 | Lysophosphatidic Acid Regulates Endothelial Barrier Integrity. <b>2022</b> , 429-444  | 0 |
| 56 | Cell Communication: Prototypic Integrative Processes - Neuronal Transport and Spatial Signaling Mechanisms in Neural Repair. <b>2022</b> ,  | 0 |

|    |   |   |
|----|---|---|
| 55 | Autophagy in infection-mediated cancers. <b>2022</b> , 301-331  | 0 |
| 54 | Multiple Omics Analysis of the Rac3 Roles in Different Types of Human Cancer. <b>2022</b> , 10, 92633-92650   | 0 |
| 53 | A systematic, cell-based comparison of G-protein binding domains for their potential as localization-based, genetically encoded biosensors of Cdc42 or Rac activity.                            | 1 |
| 52 | Topical Ripasudil for the Treatment of Primary Corneal Endothelial Degeneration in Dogs. <b>2022</b> , 11, 2  | 0 |
| 51 | The Vap33/Eph/Vav/Cdc42 complex confers temporal specification to the outgrowth of primary dendrites in <i>Drosophila</i> neurons.  | 0 |
| 50 | Diabetes downregulates the antimicrobial peptide psoriasin and increases <i>E. coli</i> burden in the urinary bladder. <b>2022</b> , 13,  | 3 |
| 49 | Proteomic analysis of the effect of hemin in breast cancer.   | 0 |
| 48 | Phosphatidylserine controls synaptic targeting and membrane stability of ASIC1a.  | 0 |
| 47 | Atypical peripheral actin band formation via overactivation of RhoA and Non-muscle myosin II in Mitofusin 2 deficient cells.  | 0 |
| 46 | N-Cadherin adhesive ligation regulates mechanosensitive neural stem cell lineage commitment in 3D matrices.   | 0 |
| 45 | Statin use in patients with hormone receptor-positive metastatic breast cancer treated with everolimus and exemestane.  | 0 |
| 44 | ERK3/MAPK6 dictates Cdc42/Rac1 activity and ARP2/3-dependent actin polymerization.  | 0 |
| 43 | Morphogen gradient orchestrates pattern-preserving tissue morphogenesis via motility-driven unjamming.  | 1 |
| 42 | p53 coordinates ECM-driven morphogenesis and gene expression in 3-dimensional mammary epithelial acini.   | 0 |
| 41 | SARS-CoV-2 infected cells sprout actin-rich filopodia that facilitate viral invasion.   | 0 |
| 40 | Opto-RhoGEFs: an optimized optogenetic toolbox to reversibly control Rho GTPase activity on a global to subcellular scale, enabling precise control over vascular endothelial barrier strength. | 0 |
| 39 | Bamboo Shoot and <i>Artemisia capillaris</i> Extract Mixture Ameliorates Dextran Sodium Sulfate-Induced Colitis. <b>2022</b> , 44, 5086-5103  | 0 |
| 38 | CDC42 regulates PYRIN inflammasome assembly. <b>2022</b> , 41, 111636   | 1 |

- 37 Rac1 promotes the reprogramming of glucose metabolism and the growth of colon cancer cells through up-regulating SOX9. ○
- 36 The molecular basis of socially induced egg size plasticity in honey bees. 11, ○
- 35 TIAM2 promotes proliferation and invasion of osteosarcoma cells by activating the JAK2/STAT3 signaling pathway. **2022**, 100461 ○
- 34 Nectin4 is a potential therapeutic target for asthma. 13, ○
- 33 A single-nucleus transcriptomics study of alcohol use disorder in the nucleus accumbens. **2023**, 28, ○
- 32 Deletion of the Notch ligand Jagged1 during cochlear maturation leads to inner hair cell defects and hearing loss. **2022**, 13, ○
- 31 7,8-Dihydroxy-3-(4-hydroxyphenyl)coumarin inhibits invasion and migration of osteosarcoma cells. **2023**, 638, 200-209 ○
- 30 MAP4K4 regulates biomechanical forces at adherens junctions and focal adhesions to promote collective cell migration. ○
- 29 Catalpol Regulates Oligodendrocyte Regeneration and Remyelination by Activating the GEF-Cdc42/Rac1 Signaling Pathway in EAE Mice. **2022**, 2022, 1-18 ○
- 28 The guanine nucleotide exchange factor Vav3 intervenes in the migration pathway of oligodendrocyte precursor cells on tenascin-C. 10, ○
- 27 Calcium-Zinc Phosphate Chemical Conversion Coating Facilitates the Osteointegration of Biodegradable Zinc Alloy Implants by Orchestrating Macrophage Phenotype. 2202537 ○
- 26 Analysis of Rac/Rop Small GTPase Family Expression in Santalum album L. and Their Potential Roles in Drought Stress and Hormone Treatments. **2022**, 12, 1980 1
- 25 PIK-24 Inhibits RSV-Induced Syncytium Formation via Direct Interaction with the p85 Subunit of PI3K. **2022**, 96, ○
- 24 Tandem engagement of phosphotyrosines by the dual SH2 domains of p120RasGAP. **2022**, 30, 1603-1614.e5 ○
- 23 Roadmap toward subtype-specific vulnerabilities in adult glioma. **2022**, 1, ○
- 22 Strontium-Incorporated Carbon Nitride Nanosheets Modulate Intracellular Tension for Reinforced Bone Regeneration. **2022**, 22, 9723-9731 ○
- 21 The Role of the Innate Immune System in Wear Debris-Induced Inflammatory Peri-Implant Osteolysis in Total Joint Arthroplasty. **2022**, 9, 764 ○
- 20 MEK and ERK Activation in Ras-Disabled RBL-2H3 Mast Cells and Novel Roles for Geranylgeranylated and Farnesylated Proteins in FcRI-Mediated Signaling. **1998**, 161, 6733-6744 6



- 19 A Novel Role for H-Ras in the Regulation of Very Late Antigen-4 Integrin and VCAM-1 Via c-Myc-Dependent and -Independent Mechanisms. **1999**, 163, 4901-4908 1
- 18 The effect of hepatocyte growth factor on intestinal adaption in an experimental model of short bowel syndrome. **2023**, 39, 0
- 17 Cell size and actin architecture determine force generation in optogenetically activated cells. **2023**, 0
- 16 Paradigms of endothelial stiffening in cardiovascular disease and vascular aging. 13, 0
- 15 P-Rex1 is a novel substrate of the E3 ubiquitin ligase Malin associated with Lafora disease. **2023**, 177, 105998 1
- 14 Role of Rho GTPases in inflammatory bowel disease. **2023**, 9, 0
- 13 Statin Therapy for Cardiac Hypertrophy and Heart Failure. **2004**, 52, 248-253 1
- 12 RNAi screen in the Drosophila wing of genes encoding proteins related to cytoskeleton organization and cell division. **2023**, 498, 61-76 0
- 11 Podocyte Geranylgeranyl Transferase Type-I Is Essential for Maintenance of the Glomerular Filtration Barrier. **2023**, 34, 641-655 0
- 10 Transcriptomic profiles of Pectoralis major muscles affected by spaghetti meat and woody breast in broiler chickens. 0
- 9 GEF-H1 Transduces Fc $\beta$ I Signaling in Mast Cells to Activate RhoA and Focal Adhesion Formation during Exocytosis. **2023**, 12, 537 0
- 8 Decoding cellular deformation from pseudo-simultaneously observed Rho GTPase activities. **2023**, 42, 112071 0
- 7 CD36 initiates Src signal transduction to promote actin remodeling-involved metastasis of lung adenocarcinoma in high-fat environment. 0
- 6 Microphysiological model of PIK3CA-driven vascular malformations reveals a role of dysregulated Rac1 and mTORC1/2 in lesion formation. **2023**, 9, 0
- 5 BAG6 supports stress fiber formation by preventing the ubiquitin-mediated degradation of RhoA. **2023**, 34, 0
- 4 The immediate adverse drug reactions induced by ShenMai Injection are mediated by thymus-derived T cells and associated with RhoA/ROCK signaling pathway. 14, 0
- 3 Polyisoprenylated cysteinyl amide inhibitors deplete singly polyisoprenylated monomeric G-proteins in lung and breast cancer cell lines. **2023**, 14, 243-257 0
- 2 Actin cytoskeleton in the control of vesicle transport, cytoplasmic organization, and pollen tube tip growth. 0

- 1 Pan-cancer analysis of the ion permeome reveals functional regulators of glioblastoma aggression. ○