Joseph Schlessinger

List of Publications by Year in Descending Order

202 papers	45,946 citations	95 h-index	214 g-index
214 ext. papers	49,191 ext. citations	19.4 avg, IF	7.66 L-index

#	Paper	IF	Citations
202	Design of protein binding proteins from target structure alone.. *Nature*, **2022**,	50.4	13
201	A hypothalamic pathway for Augmentor-controlled body weight regulation.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2200476119	11.5	0
200	Conversion of a False Virtual Screen Hit into Selective JAK2 JH2 Domain Binders Using Convergent Design Strategies.. *ACS Medicinal Chemistry Letters*, **2022**, 13, 819-826	4.3	0
199	Structural basis for ligand reception by anaplastic lymphoma kinase. *Nature*, **2021**, 600, 148-152	50.4	5
198	Mechanism for the activation of the anaplastic lymphoma kinase receptor. *Nature*, **2021**, 600, 153-157	50.4	4
197	Integrated mutational landscape analysis of uterine leiomyosarcomas. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	11
196	Indoloxytriazines as binding molecules for the JAK2 JH2 pseudokinase domain and its V617F variant. *Tetrahedron Letters*, **2021**, 77,	2	1
195	Selective Janus Kinase 2 (JAK2) Pseudokinase Ligands with a Diaminotriazole Core. *Journal of Medicinal Chemistry*, **2020**, 63, 5324-5340	8.3	11
194	FGF23 contains two distinct high-affinity binding sites enabling bivalent interactions with Klotho. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 31800-31807	11.5	4
193	Scaffold association factor B (SAFB) is required for expression of prenyltransferases and RAS membrane association. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 31914-31922	11.5	7
192	Structures of ligand-occupied Klotho complexes reveal a molecular mechanism underlying endocrine FGF specificity and activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 7819-7824	11.5	17
191	Whole-exome sequencing of cervical carcinomas identifies activating ERBB2 and PIK3CA mutations as targets for combination therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 22730-22736	11.5	26
190	Mutational landscape of primary, metastatic, and recurrent ovarian cancer reveals c-MYC gains as potential target for BET inhibitors. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 619-624	11.5	28
189	Structures of klotho reveal a zip codeSlike mechanism for endocrine FGF signalling. *Nature*, **2018**, 553, 501-505	50.4	118
188	Identification of a biologically active fragment of ALK and LTK-Ligand 2 (augmentor- *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8340-8345	11.5	9
187	Reminiscences on the "Classic" 1976 FRAP Article in Biophysical Journal. *Biophysical Journal*, **2018**, 115, 1156-1159	2.9	1
186	Inhibition of BET Bromodomain Proteins with GS-5829 and GS-626510 in Uterine Serous Carcinoma, a Biologically Aggressive Variant of Endometrial Cancer. *Clinical Cancer Research*, **2018**, 24, 4845-4853	12.9	10

185	Identification and Characterization of JAK2 Pseudokinase Domain Small Molecule Binders. *ACS Medicinal Chemistry Letters*, **2017**, 8, 618-621	4.3	22
184	JAK2 JH2 Fluorescence Polarization Assay and Crystal Structures for Complexes with Three Small Molecules. *ACS Medicinal Chemistry Letters*, **2017**, 8, 614-617	4.3	19
183	Impaired HLA Class I Antigen Processing and Presentation as a Mechanism of Acquired Resistance to Immune Checkpoint Inhibitors in Lung Cancer. *Cancer Discovery*, **2017**, 7, 1420-1435	24.4	302
182	Alk and Ltk ligands are essential for iridophore development in zebrafish mediated by the receptor tyrosine kinase Ltk. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 12027-12032	11.5	47
181	Data publication with the structural biology data grid supports live analysis. *Nature Communications* , **2016**, 7, 10882	17.4	78
180	Nuclear magnetic resonance analysis of the conformational state of cancer mutant of fibroblast growth factor receptor 1 tyrosine kinase domain. *Genes To Cells*, **2016**, 21, 350-7	2.3	3
179	Early and multiple origins of metastatic lineages within primary tumors. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 2140-5	11.5	95
178	The Dark Side of Cell Signaling: Positive Roles for Negative Regulators. *Cell*, **2016**, 164, 1172-1184	56.2	72
177	Mutational landscape of uterine and ovarian carcinosarcomas implicates histone genes in epithelial-mesenchymal transition. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12238-12243	11.5	123
176	Distinct cellular properties of oncogenic KIT receptor tyrosine kinase mutants enable alternative courses of cancer cell inhibition. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4784-93	11.5	11
175	Loss of TRIM33 causes resistance to BET bromodomain inhibitors through MYC- and TGF-□dependent mechanisms. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4558-66	11.5	35
174	Regression of Chemotherapy-Resistant Polymerase □(POLE) Ultra-Mutated and MSH6 Hyper-Mutated Endometrial Tumors with Nivolumab. *Clinical Cancer Research*, **2016**, 22, 5682-5687	12.9	109
173	Exome sequencing identifies recurrent mutations in NF1 and RASopathy genes in sun-exposed melanomas. *Nature Genetics*, **2015**, 47, 996-1002	36.3	261
172	Whole-exome sequencing characterizes the landscape of somatic mutations and copy number alterations in adrenocortical carcinoma. *Journal of Clinical Endocrinology and Metabolism*, **2015**, 100, E493-502	5.6	110
171	FGF1 and FGF19 reverse diabetes by suppression of the hypothalamic-pituitary-adrenal axis. *Nature Communications*, **2015**, 6, 6980	17.4	74
170	Inhibition of ErbB3 by a monoclonal antibody that locks the extracellular domain in an inactive configuration. *Proceedings of the National Academy of Sciences of the United States of America*, **2015** , 112, 13225-30	11.5	28
169	Structural analysis of the mechanism of phosphorylation of a critical autoregulatory tyrosine residue in FGFR1 kinase domain. *Genes To Cells*, **2015**, 20, 860-70	2.3	7
168	Heparin is an activating ligand of the orphan receptor tyrosine kinase ALK. *Science Signaling*, **2015**, 8, ra6	8.8	63

167	Augmentor α and β (FAM150) are ligands of the receptor tyrosine kinases ALK and LTK: Hierarchy and specificity of ligand-receptor interactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 15862-7	11.5	93
166	Improved survival of patients with hypermutation in uterine serous carcinoma. *Gynecologic Oncology Reports*, **2015**, 12, 3-4	1.3	11
165	The strength and cooperativity of KIT ectodomain contacts determine normal ligand-dependent stimulation or oncogenic activation in cancer. *Molecular Cell*, **2015**, 57, 191-201	17.6	20
164	Receptor tyrosine kinases: legacy of the first two decades. *Cold Spring Harbor Perspectives in Biology*, **2014**, 6,	10.2	186
163	The docking protein FRS2α is a critical regulator of VEGF receptors signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 5514-9	11.5	16
162	Structure, domain organization, and different conformational states of stem cell factor-induced intact KIT dimers. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 1772-7	11.5	26
161	The EGFR family: not so prototypical receptor tyrosine kinases. *Cold Spring Harbor Perspectives in Biology*, **2014**, 6, a020768	10.2	246
160	Differential TAM receptor-ligand-phospholipid interactions delimit differential TAM bioactivities. *ELife*, **2014**, 3,	8.9	155
159	Structural basis for KIT receptor tyrosine kinase inhibition by antibodies targeting the D4 membrane-proximal region. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 17832-7	11.5	21
158	A step towards treating KRAS-mutant NSCLC. *Lancet Oncology, The*, **2013**, 14, 3-5	21.7	3
157	Landscape of somatic single-nucleotide and copy-number mutations in uterine serous carcinoma. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 2916-21	11.5	221
156	RAC1P29S is a spontaneously activating cancer-associated GTPase. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 912-7	11.5	112
155	Exome sequencing identifies recurrent somatic RAC1 mutations in melanoma. *Nature Genetics*, **2012**, 44, 1006-14	36.3	887
154	The genesis of Zelboraf: targeting mutant B-Raf in melanoma. *Journal of Cell Biology*, **2012**, 199, 15-9	7.3	6
153	Suppression of EGFR endocytosis by dynamin depletion reveals that EGFR signaling occurs primarily at the plasma membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 4419-24	11.5	119
152	Type II p21-activated kinases (PAKs) are regulated by an autoinhibitory pseudosubstrate. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 16107-12	11.5	55
151	Aryl Extensions of Thienopyrimidinones as Fibroblast Growth Factor Receptor 1 Kinase Inhibitors. *Tetrahedron Letters*, **2011**, 52, 2228-2231	2	10
150	Pyk2 is required for neutrophil degranulation and host defense responses to bacterial infection. *Journal of Immunology*, **2011**, 186, 1656-65	5.3	47

149	Spatial control of EGF receptor activation by reversible dimerization on living cells. *Nature*, **2010**, 464, 783-7	50.4	396
148	Clinical efficacy of a RAF inhibitor needs broad target blockade in BRAF-mutant melanoma. *Nature*, **2010**, 467, 596-9	50.4	1379
147	Proline-rich tyrosine kinase-2 is critical for CD8 T-cell short-lived effector fate. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 16234-9	11.5	33
146	Direct contacts between extracellular membrane-proximal domains are required for VEGF receptor activation and cell signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 1906-11	11.5	76
145	Asymmetric receptor contact is required for tyrosine autophosphorylation of fibroblast growth factor receptor in living cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 2866-71	11.5	58
144	Cell signaling by receptor tyrosine kinases. *Cell*, **2010**, 141, 1117-34	56.2	2994
143	An FGF4-FRS2alpha-Cdx2 axis in trophoblast stem cells induces Bmp4 to regulate proper growth of early mouse embryos. *Stem Cells*, **2010**, 28, 113-21	5.8	41
142	Discovery of novel fibroblast growth factor receptor 1 kinase inhibitors by structure-based virtual screening. *Journal of Medicinal Chemistry*, **2010**, 53, 1662-72	8.3	50
141	Asymmetric tyrosine kinase arrangements in activation or autophosphorylation of receptor tyrosine kinases. *Molecules and Cells*, **2010**, 29, 443-8	3.5	82
140	FRS2 regulates Erk levels to control a self-renewal target Hes1 and proliferation of FGF-responsive neural stem/progenitor cells. *Stem Cells*, **2010**, 28, 1661-73	5.8	24
139	The precise sequence of FGF receptor autophosphorylation is kinetically driven and is disrupted by oncogenic mutations. *Science Signaling*, **2009**, 2, ra6	8.8	103
138	Surface binding inhibitors of the SCF-KIT protein-protein interaction. *ChemBioChem*, **2009**, 10, 1955-8	3.8	16
137	The selectivity of receptor tyrosine kinase signaling is controlled by a secondary SH2 domain binding site. *Cell*, **2009**, 138, 514-24	56.2	121
136	Crystal structures of free and ligand-bound focal adhesion targeting domain of Pyk2. *Biochemical and Biophysical Research Communications*, **2009**, 383, 347-52	3.4	35
135	FGFR3-targeted mAb therapy for bladder cancer and multiple myeloma. *Journal of Clinical Investigation*, **2009**, 119, 1077-9	15.9	29
134	Tuning of type I interferon-induced Jak-STAT1 signaling by calcium-dependent kinases in macrophages. *Nature Immunology*, **2008**, 9, 186-93	19.1	64
133	Discovery of a selective inhibitor of oncogenic B-Raf kinase with potent antimelanoma activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 3041-6	11.5	1056
132	Contacts between membrane proximal regions of the PDGF receptor ectodomain are required for receptor activation but not for receptor dimerization. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 7681-6	11.5	63

131	Structural basis for reduced FGFR2 activity in LADD syndrome: Implications for FGFR autoinhibition and activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 19802-7	11.5	31
130	Lacrimo-auriculo-dento-digital syndrome is caused by reduced activity of the fibroblast growth factor 10 (FGF10)-FGF receptor 2 signaling pathway. *Molecular and Cellular Biology*, **2007**, 27, 6903-12	4.8	49
129	Skeletal overgrowth is mediated by deficiency in a specific isoform of fibroblast growth factor receptor 3. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 3937-42	11.5	50
128	Defective microtubule-dependent podosome organization in osteoclasts leads to increased bone density in Pyk2(-/-) mice. *Journal of Cell Biology*, **2007**, 178, 1053-64	7.3	194
127	Structural basis for activation of the receptor tyrosine kinase KIT by stem cell factor. *Cell*, **2007**, 130, 323-34	56.2	252
126	Receptor protein tyrosine phosphatase gamma is a marker for pyramidal cells and sensory neurons in the nervous system and is not necessary for normal development. *Molecular and Cellular Biology*, **2006**, 26, 5106-19	4.8	38
125	Activation of the nonreceptor protein tyrosine kinase Ack by multiple extracellular stimuli. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 9796-801	11.5	77
124	On the nature of low- and high-affinity EGF receptors on living cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 5735-40	11.5	78
123	Nuclear signaling by receptor tyrosine kinases: the first robin of spring. *Cell*, **2006**, 127, 45-8	56.2	77
122	Autophosphorylation of FGFR1 kinase is mediated by a sequential and precisely ordered reaction. *Molecular Cell*, **2006**, 21, 711-7	17.6	179
121	Mutations in different components of FGF signaling in LADD syndrome. *Nature Genetics*, **2006**, 38, 414-7	36.3	144
120	Cellular signaling by fibroblast growth factor receptors. *Cytokine and Growth Factor Reviews*, **2005**, 16, 139-49	17.9	1447
119	A family of phosphodiesterase inhibitors discovered by cocrystallography and scaffold-based drug design. *Nature Biotechnology*, **2005**, 23, 201-7	44.5	200
118	Epidermal growth factor receptor dimerization and activation require ligand-induced conformational changes in the dimer interface. *Molecular and Cellular Biology*, **2005**, 25, 7734-42	4.8	216
117	Trans-activation of EphA4 and FGF receptors mediated by direct interactions between their cytoplasmic domains. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 18866-71	11.5	84
116	The tethered configuration of the EGF receptor extracellular domain exerts only a limited control of receptor function. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 923-8	11.5	86
115	A structure-based model for ligand binding and dimerization of EGF receptors. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 929-34	11.5	98
114	Insights into the molecular basis for fibroblast growth factor receptor autoinhibition and ligand-binding promiscuity. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 935-40	11.5	152

113	The docking protein Gab1 is an essential component of an indirect mechanism for fibroblast growth factor stimulation of the phosphatidylinositol 3-kinase/Akt antiapoptotic pathway. *Molecular and Cellular Biology*, **2004**, 24, 5657-66	4.8	66
112	Structural basis for the activity of drugs that inhibit phosphodiesterases. *Structure*, **2004**, 12, 2233-47	5.2	307
111	The biochemical response of the heart to hypertension and exercise. *Trends in Biochemical Sciences*, **2004**, 29, 609-17	10.3	81
110	The docking protein Gab1 is the primary mediator of EGF-stimulated activation of the PI-3K/Akt cell survival pathway. *BMC Biology*, **2004**, 2, 24	7.3	138
109	A glutamine switch mechanism for nucleotide selectivity by phosphodiesterases. *Molecular Cell*, **2004**, 15, 279-86	17.6	240
108	FRS2 family docking proteins with overlapping roles in activation of MAP kinase have distinct spatial-temporal patterns of expression of their transcripts. *FEBS Letters*, **2004**, 564, 14-8	3.8	60
107	Common and distinct elements in cellular signaling via EGF and FGF receptors. *Science*, **2004**, 306, 1506-7	33.3	344
106	Scanning electron microscopy of cells and tissues under fully hydrated conditions. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 3346-51	11.5	196
105	Signal transduction. Autoinhibition control. *Science*, **2003**, 300, 750-2	33.3	94
104	SH2 and PTB domains in tyrosine kinase signaling. *Science Signaling*, **2003**, 2003, RE12	8.8	189
103	A critical role for the protein tyrosine phosphatase receptor type Z in functional recovery from demyelinating lesions. *Nature Genetics*, **2002**, 32, 411-4	36.3	116
102	A putative molecular-activation switch in the transmembrane domain of erbB2. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 15937-40	11.5	220
101	FRS2 alpha attenuates FGF receptor signaling by Grb2-mediated recruitment of the ubiquitin ligase Cbl. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 6684-9	11.5	147
100	Ligand-induced, receptor-mediated dimerization and activation of EGF receptor. *Cell*, **2002**, 110, 669-72	56.2	792
99	All signaling is local?. *Molecular Cell*, **2002**, 10, 218-9	17.6	15
98	The docking protein FRS2alpha controls a MAP kinase-mediated negative feedback mechanism for signaling by FGF receptors. *Molecular Cell*, **2002**, 10, 709-19	17.6	128
97	Variations of proline-rich kinase Pyk2 expression correlate with prostate cancer progression. *Laboratory Investigation*, **2001**, 81, 51-9	5.9	44
96	Src and Pyk2 mediate G-protein-coupled receptor activation of epidermal growth factor receptor (EGFR) but are not required for coupling to the mitogen-activated protein (MAP) kinase signaling cascade. *Journal of Biological Chemistry*, **2001**, 276, 20130-5	5.4	165

95	Solution structure of Grb2 reveals extensive flexibility necessary for target recognition. *Journal of Molecular Biology*, **2001**, 306, 527-37	6.5	52
94	Absence of marginal zone B cells in Pyk-2-deficient mice defines their role in the humoral response. *Nature Immunology*, **2000**, 1, 31-6	19.1	438
93	A novel positive feedback loop mediated by the docking protein Gab1 and phosphatidylinositol 3-kinase in epidermal growth factor receptor signaling. *Molecular and Cellular Biology*, **2000**, 20, 1448-59	4.8	301
92	Crystal structure of a ternary FGF-FGFR-heparin complex reveals a dual role for heparin in FGFR binding and dimerization. *Molecular Cell*, **2000**, 6, 743-50	17.6	919
91	The EGF receptor provides an essential survival signal for SOS-dependent skin tumor development. *Cell*, **2000**, 102, 211-20	56.2	261
90	Cell signaling by receptor tyrosine kinases. *Cell*, **2000**, 103, 211-25	56.2	3429
89	New roles for Src kinases in control of cell survival and angiogenesis. *Cell*, **2000**, 100, 293-6	56.2	248
88	Crystal structures of two FGF-FGFR complexes reveal the determinants of ligand-receptor specificity. *Cell*, **2000**, 101, 413-24	56.2	329
87	Stoichiometry, kinetic and binding analysis of the interaction between epidermal growth factor (EGF) and the extracellular domain of the EGF receptor. *Growth Factors*, **2000**, 18, 11-29	1.6	59
86	Solution structure of the SH2 domain of Grb2/Ash complexed with EGF receptor-derived phosphotyrosine-containing peptide. *Journal of Biochemistry*, **1999**, 125, 1151-9	3.1	6
85	The proto-oncogene c-Cbl is a negative regulator of DNA synthesis initiated by both receptor and cytoplasmic tyrosine kinases. *Oncogene*, **1999**, 18, 2908-12	9.2	24
84	Protein tyrosine kinase Pyk2 mediates the Jak-dependent activation of MAPK and Stat1 in IFN-gamma, but not IFN-alpha, signaling. *EMBO Journal*, **1999**, 18, 2480-8	13	124
83	Evidence for SH3 domain directed binding and phosphorylation of Sam68 by Src. *Oncogene*, **1999**, 18, 4647-53	9.2	22
82	Structural basis for FGF receptor dimerization and activation. *Cell*, **1999**, 98, 641-50	56.2	505
81	Solution structure of the SH2 domain of Grb2 complexed with the Shc-derived phosphotyrosine-containing peptide. *Journal of Molecular Biology*, **1999**, 289, 439-45	6.5	57
80	Identification of a novel family of targets of PYK2 related to Drosophila retinal degeneration B (rdgB) protein. *Molecular and Cellular Biology*, **1999**, 19, 2278-88	4.8	125
79	Structure of a heparin-linked biologically active dimer of fibroblast growth factor. *Nature*, **1998**, 393, 812-7	50.4	331
78	Crk protein binds to PDGF receptor and insulin receptor substrate-1 with different modulating effects on PDGF- and insulin-dependent signaling pathways. *Oncogene*, **1998**, 16, 2425-34	9.2	16

77	Multi-ligand interactions with receptor-like protein tyrosine phosphatase beta: implications for intercellular signaling. *Trends in Biochemical Sciences*, **1998**, 23, 121-4	10.3	88
76	Cell-contact-dependent signalling in axon growth and guidance: Eph receptor tyrosine kinases and receptor protein tyrosine phosphatase beta. *Current Opinion in Neurobiology*, **1998**, 8, 117-27	7.6	113
75	Switching signals on or off by receptor dimerization. *Cell*, **1998**, 94, 277-80	56.2	367
74	Autoregulatory mechanisms in protein-tyrosine kinases. *Journal of Biological Chemistry*, **1998**, 273, 11987-90	5.4	228
73	Disulfide bond structure of human epidermal growth factor receptor. *Journal of Biological Chemistry*, **1998**, 273, 11150-7	5.4	62
72	Identification of a new Pyk2 isoform implicated in chemokine and antigen receptor signaling. *Journal of Biological Chemistry*, **1998**, 273, 14301-8	5.4	116
71	Signal transduction due to HIV-1 envelope interactions with chemokine receptors CXCR4 or CCR5. *Journal of Experimental Medicine*, **1997**, 186, 1793-8	16.6	361
70	Kit receptor dimerization is driven by bivalent binding of stem cell factor. *Journal of Biological Chemistry*, **1997**, 272, 6311-7	5.4	82
69	Induction of neurite outgrowth through contactin and Nr-CAM by extracellular regions of glial receptor tyrosine phosphatase beta. *Journal of Cell Biology*, **1997**, 136, 907-18	7.3	162
68	Tyrosine phosphorylation of Pyk2 is selectively regulated by Fyn during TCR signaling. *Journal of Experimental Medicine*, **1997**, 185, 1253-9	16.6	153
67	Ligand-binding enhances the affinity of dimerization of the extracellular domain of the epidermal growth factor receptor. *Journal of Biochemistry*, **1997**, 122, 116-21	3.1	47
66	Structures of the tyrosine kinase domain of fibroblast growth factor receptor in complex with inhibitors. *Science*, **1997**, 276, 955-60	33.3	971
65	Direct binding and activation of receptor tyrosine kinases by collagen. *Cell*, **1997**, 91, 869-72	56.2	77
64	Close similarity between Drosophila neurexin IV and mammalian Caspr protein suggests a conserved mechanism for cellular interactions. *Cell*, **1997**, 88, 745-6	56.2	36
63	Conformation of an Shc-derived phosphotyrosine-containing peptide complexed with the Grb2 SH2 domain. *Journal of Biomolecular NMR*, **1997**, 10, 273-8	3	18
62	Identification of the binding site for acidic phospholipids on the pH domain of dynamin: implications for stimulation of GTPase activity. *Journal of Molecular Biology*, **1996**, 255, 14-21	6.5	231
61	Structure of the FGF receptor tyrosine kinase domain reveals a novel autoinhibitory mechanism. *Cell*, **1996**, 86, 577-87	56.2	347
60	PH domains: diverse sequences with a common fold recruit signaling molecules to the cell surface. *Cell*, **1996**, 85, 621-4	56.2	459

59	A role for Pyk2 and Src in linking G-protein-coupled receptors with MAP kinase activation. *Nature*, **1996**, 383, 547-50	50.4	913
58	Identification of a novel 135-kDa Grb2-binding protein in osteoclasts. *Journal of Biological Chemistry*, **1996**, 271, 33141-7	5.4	7
57	Thermodynamic studies of SHC phosphotyrosine interaction domain recognition of the NPXpY motif. *Journal of Biological Chemistry*, **1996**, 271, 4770-5	5.4	28
56	Induction of urokinase-type plasminogen activator by fibroblast growth factor (FGF)-2 is dependent on expression of FGF receptors and does not require activation of phospholipase Cgamma1. *Journal of Biological Chemistry*, **1996**, 271, 31154-9	5.4	19
55	Catalytic specificity of protein-tyrosine kinases is critical for selective signalling. *Nature*, **1995**, 373, 536-9	50.4	876
54	Use of Large Combinatorial Chemical Libraries for Anticancer Drug Discovery. *International Journal of Pharmacognosy*, **1995**, 33, 67-74		4
53	Reduced activation of RAF-1 and MAP kinase by a fibroblast growth factor receptor mutant deficient in stimulation of phosphatidylinositol hydrolysis. *Journal of Biological Chemistry*, **1995**, 270, 5065-72	5.4	82
52	Tyrosine phosphorylation of the c-cbl proto-oncogene protein product and association with epidermal growth factor (EGF) receptor upon EGF stimulation. *Journal of Biological Chemistry*, **1995**, 270, 20242-5	5.4	168
51	Shc binding to nerve growth factor receptor is mediated by the phosphotyrosine interaction domain. *Journal of Biological Chemistry*, **1995**, 270, 15125-9	5.4	106
50	Regulation of growth factor activation by proteoglycans: what is the role of the low affinity receptors?. *Cell*, **1995**, 83, 357-60	56.2	442
49	Structure of the high affinity complex of inositol trisphosphate with a phospholipase C pleckstrin homology domain. *Cell*, **1995**, 83, 1037-46	56.2	557
48	The carbonic anhydrase domain of receptor tyrosine phosphatase beta is a functional ligand for the axonal cell recognition molecule contactin. *Cell*, **1995**, 82, 251-60	56.2	376
47	Definition of signals for neuronal differentiation. *Annals of the New York Academy of Sciences*, **1995**, 766, 1-17	6.5	14
46	Use of tyrosine-phosphorylated proteins to screen bacterial expression libraries for SH2 domains. *Methods in Enzymology*, **1995**, 255, 360-9	1.7	4
45	One bead, one chemical compound: use of the selectide process for anticancer drug discovery. *Acta Oncologica*, **1994**, 33, 127-31	3.2	5
44	Regulation of signal transduction and signal diversity by receptor oligomerization. *Trends in Biochemical Sciences*, **1994**, 19, 459-63	10.3	397
43	Structure of the N-terminal SH3 domain of GRB2 complexed with a peptide from the guanine nucleotide releasing factor Sos. *Nature Structural and Molecular Biology*, **1994**, 1, 891-7	17.6	88
42	Crystal structures of peptide complexes of the amino-terminal SH2 domain of the Syp tyrosine phosphatase. *Structure*, **1994**, 2, 423-38	5.2	222

41	Solution structure and ligand-binding site of the carboxy-terminal SH3 domain of GRB2. *Structure*, **1994**, 2, 1029-40	5.2	71
40	PC12 cells overexpressing the insulin receptor undergo insulin-dependent neuronal differentiation. *Current Biology*, **1994**, 4, 702-8	6.3	202
39	Membrane targeting of the nucleotide exchange factor Sos is sufficient for activating the Ras signaling pathway. *Cell*, **1994**, 78, 949-61	56.2	443
38	SH2/SH3 signaling proteins. *Current Opinion in Genetics and Development*, **1994**, 4, 25-30	4.9	392
37	Phosphatidylinositol 3-kinase p85 SH2 domain specificity defined by direct phosphopeptide/SH2 domain binding. *Biochemistry*, **1993**, 32, 3197-202	3.2	154
36	How receptor tyrosine kinases activate Ras. *Trends in Biochemical Sciences*, **1993**, 18, 273-5	10.3	344
35	Ligand-mediated negative regulation of a chimeric transmembrane receptor tyrosine phosphatase. *Cell*, **1993**, 73, 541-54	56.2	260
34	The expression of a novel receptor-type tyrosine phosphatase suggests a role in morphogenesis and plasticity of the nervous system. *Developmental Brain Research*, **1993**, 75, 293-8		87
33	Vav: a potential link between tyrosine kinases and ras-like GTPases in hematopoietic cell signaling. *BioEssays*, **1993**, 15, 179-83	4.1	20
32	Grb2 mediates the EGF-dependent activation of guanine nucleotide exchange on Ras. *Nature*, **1993**, 363, 88-92	50.4	532
31	Interferon-induced nuclear signalling by Jak protein tyrosine kinases. *Nature*, **1993**, 366, 583-5	50.4	332
30	Characterization of the submicroscopic deletion in the small-cell lung carcinoma (SCLC) cell line U2020. *Genes Chromosomes and Cancer*, **1992**, 5, 67-74	5	23
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