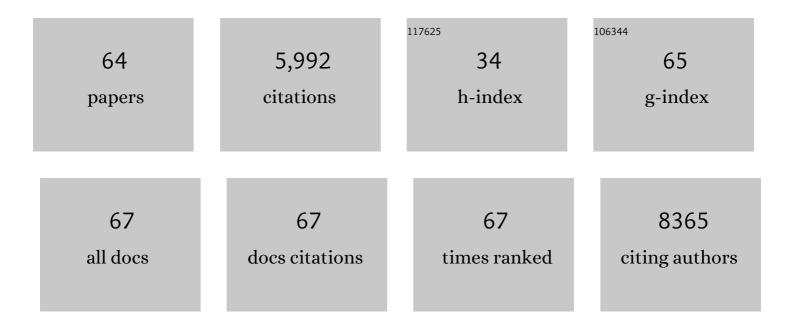
Louis Hodgson

List of Publications by Year in descending order

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LOUIS HODOSON

#	Article	IF	CITATIONS
1	Coordination of Rho GTPase activities during cell protrusion. Nature, 2009, 461, 99-103.	27.8	898
2	Spatiotemporal dynamics of RhoA activity in migrating cells. Nature, 2006, 440, 1069-1072.	27.8	734
3	Directed cell invasion and migration during metastasis. Current Opinion in Cell Biology, 2012, 24, 277-283.	5.4	391
4	Functions of cofilin in cell locomotion and invasion. Nature Reviews Molecular Cell Biology, 2013, 14, 405-415.	37.0	388
5	Activation of Endogenous Cdc42 Visualized in Living Cells. Science, 2004, 305, 1615-1619.	12.6	370
6	Dynamics of the Rho-family small GTPases in actin regulation and motility. Cell Adhesion and Migration, 2011, 5, 170-180.	2.7	338
7	Matrix mechanical plasticity regulates cancer cell migration through confining microenvironments. Nature Communications, 2018, 9, 4144.	12.8	263
8	Correcting mitochondrial fusion by manipulating mitofusin conformations. Nature, 2016, 540, 74-79.	27.8	190
9	A Novel Spatiotemporal RhoC Activation Pathway Locally Regulates Cofilin Activity at Invadopodia. Current Biology, 2011, 21, 635-644.	3.9	166
10	A Trio–Rac1–Pak1 signalling axis drives invadopodiaÂdisassembly. Nature Cell Biology, 2014, 16, 571-583.	10.3	139
11	Induction of entosis by epithelial cadherin expression. Cell Research, 2014, 24, 1288-1298.	12.0	118
12	DLCâ€l suppresses nonâ€small cell lung cancer growth and invasion by RhoGAPâ€dependent and independent mechanisms. Molecular Carcinogenesis, 2008, 47, 326-337.	2.7	115
13	Direct multiplex imaging and optogenetics of Rho GTPases enabled by near-infrared FRET. Nature Chemical Biology, 2018, 14, 591-600.	8.0	107
14	The Role of Rho-GTPases and actin polymerization during Macrophage Tunneling Nanotube Biogenesis. Scientific Reports, 2017, 7, 8547.	3.3	99
15	Biosensors for Characterizing the Dynamics of Rho Family GTPases in Living Cells. Current Protocols in Cell Biology, 2010, 46, Unit 14.11.1-26.	2.3	98
16	Talin regulates moesin–NHE-1 recruitment to invadopodia and promotes mammary tumor metastasis. Journal of Cell Biology, 2014, 205, 737-751.	5.2	96
17	Macropinosome formation by tent pole ruffling in macrophages. Journal of Cell Biology, 2018, 217, 3873-3885.	5.2	90
18	Synonymous modification results in high-fidelity gene expression of repetitive protein and nucleotide sequences. Genes and Development, 2015, 29, 876-886.	5.9	87

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19	DENND2B activates Rab13 at the leading edge of migrating cells and promotes metastatic behavior. Journal of Cell Biology, 2015, 208, 629-648.	5.2	78
20	Macrophage-dependent tumor cell transendothelial migration is mediated by Notch1/MenalNV-initiated invadopodium formation. Scientific Reports, 2016, 6, 37874.	3.3	74
21	A Biosensor of S100A4 Metastasis Factor Activation:  Inhibitor Screening and Cellular Activation Dynamics. Biochemistry, 2008, 47, 986-996.	2.5	72
22	Mesenchymal Cell Invasion Requires Cooperative Regulation of Persistent Microtubule Growth by SLAIN2 and CLASP1. Developmental Cell, 2016, 39, 708-723.	7.0	69
23	Rac3 regulates breast cancer invasion and metastasis by controlling adhesion and matrix degradation. Journal of Cell Biology, 2017, 216, 4331-4349.	5.2	66
24	Design and Optimization of Genetically Encoded Fluorescent Biosensors: GTPase Biosensors. Methods in Cell Biology, 2008, 85, 63-81.	1.1	53
25	Quantitative Ratiometric Imaging of FRET-Biosensors in Living Cells. Methods in Cell Biology, 2013, 114, 593-609.	1.1	53
26	Spatial regulation of RhoC activity defines protrusion formation in migrating cells. Journal of Cell Science, 2013, 126, 3356-69.	2.0	53
27	Control of mitochondrial function and cell growth by the atypical cadherin Fat1. Nature, 2016, 539, 575-578.	27.8	52
28	Imaging and Photobleach Correction of Mero BD, Sensor of Endogenous Cdc42 Activation. Methods in Enzymology, 2006, 406, 140-156.	1.0	46
29	FRET binding antenna reports spatiotemporal dynamics of GDI–Cdc42 GTPase interactions. Nature Chemical Biology, 2016, 12, 802-809.	8.0	45
30	A New Genetically Encoded Single-Chain Biosensor for Cdc42 Based on FRET, Useful for Live-Cell Imaging. PLoS ONE, 2014, 9, e96469.	2.5	45
31	Melanoma cell migration to type IV collagen requires activation of NF-κB. Oncogene, 2003, 22, 98-108.	5.9	42
32	Combining Surface Chemistry with a FRET-Based Biosensor to Study the Dynamics of RhoA GTPase Activation in Cells on Patterned Substrates. Journal of the American Chemical Society, 2007, 129, 9264-9265.	13.7	40
33	A RhoC Biosensor Reveals Differences in the Activation Kinetics of RhoA and RhoC in Migrating Cells. PLoS ONE, 2013, 8, e79877.	2.5	40
34	Optogenetic regulation of endogenous proteins. Nature Communications, 2020, 11, 605.	12.8	39
35	Par1b links lumen polarity with LGN–NuMA positioning for distinct epithelial cell division phenotypes. Journal of Cell Biology, 2013, 203, 251-264.	5.2	36
36	Digital Autofocus Methods for Automated Microscopy. Methods in Enzymology, 2006, 414, 620-632.	1.0	33

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37	Spatial regulation of tumor cell protrusions by RhoC. Cell Adhesion and Migration, 2014, 8, 263-267.	2.7	32
38	Rho GTPase isoforms in cell motility: Don't fret, we have FRET. Cell Adhesion and Migration, 2014, 8, 526-534.	2.7	31
39	Functional proteometrics for cell migration. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2006, 69A, 563-572.	1.5	30
40	Involvement of phospholipase C signaling in melanoma cell-induced endothelial junction disassembly. Frontiers in Bioscience - Landmark, 2005, 10, 1597.	3.0	29
41	Intracellular Calcium Changes in Rat Aortic Smooth Muscle Cells in Response to Fluid Flow. Annals of Biomedical Engineering, 2002, 30, 371-378.	2.5	28
42	Multiplex Imaging of Rho Family GTPase Activities in Living Cells. Methods in Molecular Biology, 2012, 827, 215-234.	0.9	23
43	Optical Tools To Study the Isoform-Specific Roles of Small GTPases in Immune Cells. Journal of Immunology, 2016, 196, 3479-3493.	0.8	21
44	Novel phospho-switch function of delta-catenin in dendrite development. Journal of Cell Biology, 2020, 219, .	5.2	20
45	[Ca ²⁺] _i as a potential downregulator of l± ₂ l² ₁ -integrin-mediated A2058 tumor cell migration to type IV collagen. American Journal of Physiology - Cell Physiology, 2001, 281, C106-C113.	4.6	18
46	Differential regulation of rho GTPases during lung adenocarcinoma migration and invasion reveals a novel role of the tumor suppressor StarD13 in invadopodia regulation. Cell Communication and Signaling, 2020, 18, 144.	6.5	18
47	Asymmetric localization of DLC1 defines avian trunk neural crest polarity for directional delamination and migration. Nature Communications, 2017, 8, 1185.	12.8	16
48	Live Cell Imaging of RhoGTPase Biosensors in Tumor Cells. Methods in Molecular Biology, 2013, 1046, 359-370.	0.9	14
49	Solute Transport to the Endothelial Intercellular Cleft: The Effect of Wall Shear Stress. Annals of Biomedical Engineering, 2002, 30, 936-945.	2.5	13
50	Metalloprotease ADAMTS-1 decreases cell migration and invasion modulating the spatiotemporal dynamics of Cdc42 activity. Cellular Signalling, 2021, 77, 109827.	3.6	11
51	Use of Green Fluorescent Protein-Conjugated β-Actin as a Novel Molecular Marker for in Vitro Tumor Cell Chemotaxis Assay. Biotechnology Progress, 2000, 16, 1106-1114.	2.6	10
52	Using Fluorescence Resonance Energy Transfer-Based Biosensors to Probe Rho GTPase Activation During Phagocytosis. Methods in Molecular Biology, 2017, 1519, 125-143.	0.9	8
53	Digital differential interference contrast autofocus for highâ€resolution oilâ€immersion microscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 658-666.	1.5	7
54	Extracellular lipid-mediated signaling in tumor-cell activation and pseudopod protrusion. International Journal of Cancer, 2000, 88, 593-600.	5.1	5

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55	Multiplex Imaging of Rho GTPase Activities in Living Cells. Methods in Molecular Biology, 2021, 2350, 43-68.	0.9	5
56	TC10 regulates breast cancer invasion and metastasis by controlling membrane type-1 matrix metalloproteinase at invadopodia. Communications Biology, 2021, 4, 1091.	4.4	5
57	Characterization of Genetically Encoded FRET Biosensors for Rho-Family GTPases. Methods in Molecular Biology, 2018, 1821, 87-106.	0.9	4
58	Kalirin/Trio Rho GDP/GTP exchange factors regulate proinsulin and insulin secretion. Journal of Molecular Endocrinology, 2019, 62, 47-65.	2.5	4
59	Spatial and temporal dynamics of RhoA activities of single breast tumor cells in a 3D environment revealed by a machine learning-assisted FRET technique. Experimental Cell Research, 2022, 410, 112939.	2.6	4
60	New Approaches to In-Cell Detection of Protein Activity: Genetically Encoded Chemiluminescence Probes Pave the Way to Robust HTS Assays. ACS Chemical Biology, 2008, 3, 335-337.	3.4	3
61	Optogenetics: Rho GTPases Activated by Light in Living Macrophages. Methods in Molecular Biology, 2020, 2108, 281-293.	0.9	3
62	StarD13 negatively regulates invadopodia formation and invasion in high-grade serous (HGS) ovarian adenocarcinoma cells by inhibiting Cdc42. European Journal of Cell Biology, 2022, 101, 151197.	3.6	3
63	Regulation of RhoGTPases in motility: A fine balancing act. Cell Adhesion and Migration, 2014, 8, 525-525.	2.7	2
64	A Mix-and-Measure Assay for Determining the Activation Status of Endogenous Cdc42 in Cytokine-stimulated Macrophage Cell Lysates. Methods in Molecular Biology, 2014, 1172, 173-184.	0.9	1