Mark R Holt

List of Publications by Year
in descending order

43 papers	3,114 citations	236925 25 h-index	302126 39 g-index
47 all docs	47 docs citations	47 times ranked	4644 citing authors

#	Article	IF	Citations
1	Directional migration of neural crest cells in vivo is regulated by Syndecan-4/Rac1 and non-canonical Wnt signaling/RhoA. Development (Cambridge), 2008, 135, 1771-1780.	2.5	253
2	Focal adhesion kinase controls actin assembly via a FERM-mediated interaction with the Arp2/3 complex. Nature Cell Biology, 2007, 9, 1046-1056.	10.3	229
3	The focal-adhesion vasodilator-stimulated phosphoprotein (VASP) binds to the proline-rich domain in vinculin. Biochemical Journal, 1996, 318, 753-757.	3.7	188
4	The Structure and Regulation of Human Muscle Î±-Actinin. Cell, 2014, 159, 1447-1460.	28.9	178
5	Cell motility: proline-rich proteins promote protrusions. Trends in Cell Biology, 2001, 11, 38-46.	7.9	175
6	Interactions with titin and myomesin target obscurin and obscurin-like 1 to the M-band â€“ implications for hereditary myopathies. Journal of Cell Science, 2008, 121, 1841-1851.	2.0	168
7	Rapid Actin Transport During Cell Protrusion. Science, 2003, 300, 142-145.	12.6	160
8	Role of vinculin in regulating focal adhesion turnover. European Journal of Cell Biology, 2006, 85, 487-500.	3.6	160
9	ARF1 Mediates Paxillin Recruitment to Focal Adhesions and Potentiates Rho-stimulated Stress Fiber Formation in Intact and Permeabilized Swiss 3T3 Fibroblasts. Journal of Cell Biology, 1998, 143, 1981-1995.	5.2	146
10	Diminished sarco/endoplasmic reticulum Ca²⁺ATPase (SERCA) expression contributes to airway remodelling in bronchial asthma. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10775-10780.	7.1	136
11	PTEN couples Sema3A signalling to growth cone collapse. Journal of Cell Science, 2006, 119, 951-957.	2.0	124
12	Calcium/Calmodulin-dependent Phosphorylation and Activation of Human Cdc25-C at the G2/M Phase Transition in HeLa Cells. Journal of Biological Chemistry, 1999, 274, 7958-7968.	3.4	123
13	WIP Regulates the Stability and Localization of WASP to Podosomes in Migrating Dendritic Cells. Current Biology, 2006, 16, 2337-2344.	3.9	114
14	Vinculin acts as a sensor in lipid regulation of adhesion-site turnover. Journal of Cell Science, 2005, 118, 1461-1472.	2.0	108
15	Continual Production of Phosphatidic Acid by Phospholipase D Is Essential for Antigen-stimulated Membrane Ruffling in Cultured Mast Cells. Molecular Biology of the Cell, 2002, 13, 3730-3746.	2.1	98
16	Structural insight into M-band assembly and mechanics from the titin-obscurin-like-1 complex. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2908-2913.	7.1	60
17	Fluorescence localization after photobleaching (FLAP): a new method for studying protein dynamics in living cells. Journal of Microscopy, 2002, 205, 109-112.	1.8	57
18	Developmental regulation of MURF ubiquitin ligases and autophagy proteins nbr1, p62/SQSTM1 and LC3 during cardiac myofibril assembly and turnover. Developmental Biology, 2011, 351, 46-61.	2.0	57

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19	A novel role for atypical MAPK kinase ERK3 in regulating breast cancer cell morphology and migration. Cell Adhesion and Migration, 2015, 9, 483-494.	2.7	55
20	L-selectin shedding is activated specifically within transmigrating pseudopods of monocytes to regulate cell polarity in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1461-70.	7.1	54
21	Molecules in focus The focal adhesion phosphoprotein, VASP. International Journal of Biochemistry and Cell Biology, 1998, 30, 307-311.	2.8	45
22	Quantifying cellâ€“matrix adhesion dynamics in living cells using interference reflection microscopy. Journal of Microscopy, 2008, 232, 73-81.	1.8	43
23	PAK4 kinase activity and somatic mutation promote carcinoma cell motility and influence inhibitor sensitivity. Oncogene, 2013, 32, 2114-2120.	5.9	42
24	Defects in cell spreading and ERK1/2 activation in fibroblasts with lamin A/C mutations. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2009, 1792, 810-821.	3.8	39
25	Making sense of missense variants in TTN-related congenital myopathies. Acta Neuropathologica, 2021, 141, 431-453.	7.7	34
26	Phosphoregulation of the Titin-cap Protein Telethonin in Cardiac Myocytes. Journal of Biological Chemistry, 2014, 289, 1282-1293.	3.4	32
27	Binding of Myomesin to Obscurin-Like-1 at the Muscle M-Band Provides a Strategy for Isoform-Specific Mechanical Protection. Structure, 2017, 25, 107-120.	3.3	25
28	Impairments in contractility and cytoskeletal organisation cause nuclear defects in nemaline myopathy. Acta Neuropathologica, 2019, 138, 477-495.	7.7	25
29	Individual Limb Muscle Bundles Are Formed through Progressive Steps Orchestrated by Adjacent Connective Tissue Cells during Primary Myogenesis. Cell Reports, 2020, 30, 3552-3565.e6.	6.4	22
30	SUN1/2 Are Essential for RhoA/ROCK-Regulated Actomyosin Activity in Isolated Vascular Smooth Muscle Cells. Cells, 2020, 9, 132.	4.1	22
31	The Crystal Structure of the Human Titin:Obscurin Complex Reveals a Conserved yet Specific Muscle M-Band Zipper Module. Journal of Molecular Biology, 2015, 427, 718-736.	4.2	20
32	Î±3Î²1 integrins regulate CD151 complex assembly and membrane dynamics in carcinoma cells within 3D environments. Oncogene, 2013, 32, 3965-3979.	5.9	19
33	Loss of Protein Kinase Novel 1 (PKN1) is associated with mild systolic and diastolic contractile dysfunction, increased phospholamban Thr17 phosphorylation, and exacerbated ischaemia-reperfusion injury. Cardiovascular Research, 2018, 114, 138-157.	3.8	17
34	Electrical stimulation applied during differentiation drives the hiPSC-CMs towards a mature cardiac conduction-like cells. Biochemical and Biophysical Research Communications, 2020, 533, 376-382.	2.1	17
35	Isoforms of protein 4.1 are differentially distributed in heart muscle cells: Relation of 4.1R and 4.1G to components of the Ca2+ homeostasis system. Experimental Cell Research, 2012, 318, 1467-1479.	2.6	15
36	Prelamin A Accumulation Attenuates Rac1 Activity and Increases the Intrinsic Migrational Persistence of Aged Vascular Smooth Muscle Cells. Cells, 2016, 5, 41.	4.1	15

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37	The importance of serine 776 in Ataxin-1 partner selection: A FRET Analysis. Scientific Reports, 2012, 2, 919.	3.3	12
38	Mapping the self-association domains of ataxin-1: identification of novel non overlapping motifs. PeerJ, 2014, 2, e323.	2.0	8
39	Fluorescence Localization After Photobleaching (FLAP). , 2004, Chapter 21, Unit 21.2.		6
40	Rho GTPases: Secretion and actin dynamics in permeabilized mast cells. Methods in Enzymology, 2000, 325, 356-369.	1.0	2
41	Using Bioprobes to Follow Protein Dynamics in Living Cells. , 0, , 117-134.		1
42	AMPK is a Mechano-Metabolic Sensor Linking Mitochondrial Dynamics to Myosin II Dependent Cell Migration. SSRN Electronic Journal, 0, , .	0.4	1
43	Structural insight into the Phosphoinositide-Regulated Cellular Dynamics of Alpha-Actinin. Biophysical Journal, 2015, 108, 16a.	0.5	0