Shigehiko Yumura

List of Publications by Year
in descending order

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64	2,515	218677	206112
papers	citations	26 h-index	48 g-index

65	65	65	1419
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cell behaviors within a confined adhesive area fabricated using novel micropatterning methods. PLoS ONE, 2022, 17, e0262632.	2.5	4
2	Dynamics of Myosin II Filaments during Wound Repair in Dividing Cells. Cells, 2021, 10, 1229.	4.1	7
3	A â€˜dynamic adder modelâ€™ for cell size homeostasis in Dictyostelium cells. Scientific Reports, 2021, 11, 13742.	3.3	2
4	Deletion of gmfA induces keratocyteâ€like migration in Dictyostelium. FEBS Open Bio, 2021, , .	2.3	2
5	An improved molecular tool for screening bacterial colonies using GFP expression enhanced by a Dictyostelium sequence. BioTechniques, 2020, 68, 91-95.	1.8	3
6	Strategies for enhancing gene expression in Escherichia coli. Applied Microbiology and Biotechnology, 2020, 104, 3825-3834.	3.6	17
7	Ca2+â€“Calmodulin Dependent Wound Repair in Dictyostelium Cell Membrane. Cells, 2020, 9, 1058.	4.1	14
8	Regulation of the Total Cell Surface Area in Dividing Dictyostelium Cells. Frontiers in Cell and Developmental Biology, 2020, 8, 238.	3.7	11
9	Dynamin-Like Protein B of Dictyostelium Contributes to Cytokinesis Cooperatively with Other Dynamins. Cells, 2019, 8, 781.	4.1	10
10	Cytokinesis D is Mediated by Cortical Flow of Dividing Cells Instead of Chemotaxis. Cells, 2019, 8, 473.	4.1	10
11	Manipulation of cell migration by laserporation-induced local wounding. Scientific Reports, 2019, 9, 4291.	3.3	6
12	Translation enhancement by a Dictyostelium gene sequence in Escherichia coli. Applied Microbiology and Biotechnology, 2019, 103, 3501-3510.	3.6	5
13	A study of wound repair in Dictyostelium cells by using novel laserporation. Scientific Reports, 2018, 8, 7969.	3.3	23
14	Traction force and its regulation during cytokinesis in Dictyostelium cells. European Journal of Cell Biology, 2017, 96, 515-528.	3.6	18
15	Turnover and flow of the cell membrane for cell migration. Scientific Reports, 2017, 7, 12970.	3.3	54
16	A novel mode of cytokinesis without cell-substratum adhesion. Scientific Reports, 2017, 7, 17694.	3.3	14
17	A novel low-power laser-mediated transfer of foreign molecules into cells. Scientific Reports, 2016, 6, 22055.	3.3	17
18	Microtubule-Mediated Inositol Lipid Signaling Plays Critical Roles in Regulation of Blebbing. PLoS ONE, 2015, 10, e0137032.	2.5	23

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19	Myosin II does not contribute to wound repair in Dictyostelium cells. Biology Open, 2014, 3, 966-973.	1.2	16
20	Dynamin contributes to cytokinesis by stabilizing actin filaments in the contractile ring. Genes To Cells, 2013, 18, 621-635.	1.2	21
21	Cell-scale dynamic recycling and cortical flow of the actinâ€“myosin cytoskeleton for rapid cell migration. Biology Open, 2013, 2, 200-209.	1.2	35
22	Talin couples the actomyosin cortex to the plasma membrane during rear retraction and cytokinesis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12992-12997.	7.1	39
23	Stretching Actin Filaments within Cells Enhances their Affinity for the Myosin II Motor Domain. PLoS ONE, 2011, 6, e26200.	2.5	135
24	1K1612 P51 Stretching actin filaments within cells enhances their affinity for the myosin II motor domain(Cell biology 1,The 49th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2011, 51, S59.	0.1	0
25	Cyclic stretch of the substratum using a shape-memory alloy induces directional migration in Dictyostelium cells. BioTechniques, 2009, 47, 757-767.	1.8	32
26	PTEN is a mechanosensing signal transducer for myosin II localization in Dictyostelium cells. Genes To Cells, 2009, 14, 821-834.	1.2	48
27	Multiple Mechanisms for Accumulation of Myosin II Filaments at the Equator During Cytokinesis. Traffic, 2008, 9, 2089-2099.	2.7	54
28	Actin-based propulsive forces and myosin-II-based contractile forces in migratingDictyosteliumcells. Journal of Cell Science, 2008, 121, 1314-1324.	2.0	69
29	2P-202 Repeated stretch of substratum induces directional migration in Dictyostelium cells(The 46th) Tj ETQq1 1 0.784314 rgBT /Ove	0.1	0
30	Molecular dynamics and forces of a motile cell simultaneously visualized by TIRF and force microscopies. BioTechniques, 2008, 44, 739-750.	1.8	34
31	A novel mitosis-specific dynamic actin structure inDictyosteliumcells. Journal of Cell Science, 2007, 120, 4302-4309.	2.0	18
32	Multiple Myosin II Heavy Chain Kinases: Roles in Filament Assembly Control and Proper Cytokinesis in Dictyostelium. Molecular Biology of the Cell, 2005, 16, 4256-4266.	2.1	78
33	De novo formation of basal bodies in Naegleria gruberi. Journal of Cell Biology, 2005, 169, 719-724.	5.2	23
34	Multiple Parallelisms in Animal Cytokinesis. International Review of Cytology, 2004, 240, 377-432.	6.2	19
35	Dynamics of novel feet of Dictyostelium cells during migration. Journal of Cell Science, 2004, 117, 1443-1455.	2.0	67
36	Myosin II contributes to the posterior contraction and the anterior extension during the retraction phase in migratingDictyosteliumcells. Journal of Cell Science, 2003, 116, 51-60.	2.0	71

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37	Myosins and cell dynamics in cellular slime molds. International Review of Cytology, 2003, 224, 173-225.	6.2	47
38	Novel Myosin Heavy Chain Kinase Involved in Disassembly of Myosin II Filaments and Efficient Cleavage in MitoticDictyosteliumCells. Molecular Biology of the Cell, 2002, 13, 4333-4342.	2.1	27
39	Recruitment of a myosin heavy chain kinase to actin-rich protrusions in Dictyostelium. Current Biology, 2001, 11, 708-713.	3.9	73
40	Myosin II dynamics and cortical flow during contractile ring formation in Dictyostelium cells. Journal of Cell Biology, 2001, 154, 137-146.	5.2	110
41	Molecular biological approaches to study myosin functions in cytokinesis ofDictyostelium. , 2000, 49, 136-144.		12
42	Myosin II-Independent Cytokinesis in Dictyostelium. Its Mechanism and Implications.. Cell Structure and Function, 2000, 25, 1-10.	1.1	49
43	Novel cellular tracks of migrating Dictyostelium cells. European Journal of Cell Biology, 1999, 78, 757-766.	3.6	5
44	Architectural Dynamics of F-Actin in Eupodia Suggests Their Role in Invasive Locomotion inDictyostelium. Experimental Cell Research, 1999, 249, 33-45.	2.6	23
45	Transport of Myosin II to the Equatorial Region without Its Own Motor Activity in MitoticDictyosteliumCells. Molecular Biology of the Cell, 1997, 8, 2089-2099.	2.1	72
46	How does myosin II localize within aDictyostelium cell?. Journal of Plant Research, 1997, 110, 501-510.	2.4	5
47	Myosin II can be localized to the cleavage furrow and to the posterior region ofDictyostelium amoebae without control by phosphorylation of myosin heavy and light chains. , 1997, 36, 313-322.		35
48	Rapid redistribution of myosin II in livingDictyostelium amoebae, as revealed by fluorescent probes introduced by electroporation. Protoplasma, 1996, 192, 217-227.	2.1	13
49	Spatial Distribution of Fluorescently Labeled Actin in Living Dictyostelium Amoebae.. Cell Structure and Function, 1996, 21, 189-197.	1.1	15
50	Introduction of Macromolecules into Living Dictyostelium Cells by Electroporation.. Cell Structure and Function, 1995, 20, 185-190.	1.1	50
51	Rapid Translocation of Myosin II in Vegetative Dictyostelium Amoebae during Chemotactic Stimulation by Folic Acid.. Cell Structure and Function, 1994, 19, 143-151.	1.1	23
52	Reorganization of Actin and Myosin II in Dictyostelium Amoeba during Stimulation by cAMP.. Cell Structure and Function, 1993, 18, 379-388.	1.1	26
53	A mechanism for the intracellular localization of myosin II filaments in the Dictyostelium amoeba. Journal of Cell Science, 1993, 105 (Pt 1), 233-42.	2.0	2
54	Release of myosin II from the membrane-cytoskeleton of Dictyostelium discoideum mediated by heavy-chain phosphorylation at the foci within the cortical actin network. Journal of Cell Biology, 1992, 117, 1231-1239.	5.2	43

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55	Concerted Movement of Prestalk Cells in Migrating Slugs of Dictyostelium Revealed by the Localization of Myosin. Development Growth and Differentiation, 1992, 34, 319-328.	1.5	11
56	Contraction of Dictyostelium Ghosts Reconstituted with Myosin II.. Cell Structure and Function, 1991, 16, 481-488.	1.1	10
57	Fluorescence-mediated visualization of actin and myosin filaments in the contractile membrane-cytoskeleton complex of Dictyostelium discoideum.. Cell Structure and Function, 1990, 15, 355-364.	1.1	32
58	Immunoelectron microscopic studies of the ultrastructure of myosin filaments in Dictyostelium discoideum.. Cell Structure and Function, 1990, 15, 343-354.	1.1	23
59	Chapter 19 Agar-Overlay Immunofluorescence: High-Resolution Studies of Cytoskeletal Components and Their Changes during Chemotaxis. Methods in Cell Biology, 1987, 28, 347-356.	1.1	125
60	Actomyosin dynamics in chemotactic amoeboid movement ofDictyostelium. Cytoskeleton, 1986, 6, 662-673.	4.4	49
61	[54] Agar overlay method: High-resolution immunofluorescence for the study of the contractile apparatus. Methods in Enzymology, 1986, 134, 573-580.	1.0	31
62	Reversible cyclic AMP-dependent change in distribution of myosin thick filaments in Dictyostelium. Nature, 1985, 314, 194-196.	27.8	258
63	Localization of actin and myosin for the study of ameboid movement in Dictyostelium using improved immunofluorescence.. Journal of Cell Biology, 1984, 99, 894-899.	5.2	298
64	Filopodelike projections induced with dimethyl sulfoxide and their relevance to cellular polarity in Dictyostelium.. Journal of Cell Biology, 1983, 96, 857-865.	5.2	49