Masafumi Hirono

List of Publications by Year
in descending order

58	3,203	136950	161849
papers	citations	32 h-index	54 g-index

59	59	59	2388
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structures of SAS-6 Suggest Its Organization in Centrioles. Science, 2011, 331, 1196-1199.	12.6	284
2	SAS-6 is a Cartwheel Protein that Establishes the 9-Fold Symmetry of the Centriole. Current Biology, 2007, 17, 2169-2174.	3.9	233
3	Tubulin Polyglutamylation Regulates Axonemal Motility by Modulating Activities of Inner-Arm Dyneins. Current Biology, 2010, 20, 441-445.	3.9	157
4	Bld10p Constitutes the Cartwheel-Spoke Tip and Stabilizes the 9-Fold Symmetry of the Centriole. Current Biology, 2007, 17, 1778-1783.	3.9	150
5	Bld10p, a novel protein essential for basal body assembly in Chlamydomonas. Journal of Cell Biology, 2004, 165, 663-671.	5.2	131
6	Chlamydomonas Inner-Arm Dynein Mutant, ida5, Has a Mutation in an Actin-encoding Gene. Journal of Cell Biology, 1997, 137, 649-656.	5.2	117
7	Tetrahymena actin. Journal of Molecular Biology, 1987, 194, 181-192.	4.2	113
8	An Axonemal Dynein Particularly Important for Flagellar Movement at High Viscosity. Journal of Biological Chemistry, 2005, 280, 41412-41420.	3.4	103
9	The role of retrograde intraflagellar transport in flagellar assembly, maintenance, and function. Journal of Cell Biology, 2012, 199, 151-167.	5.2	103
10	Oda5p, a Novel Axonemal Protein Required for Assembly of the Outer Dynein Arm and an Associated Adenylate Kinase. Molecular Biology of the Cell, 2004, 15, 2729-2741.	2.1	80
11	The MIA complex is a conserved and novel dynein regulator essential for normal ciliary motility. Journal of Cell Biology, 2013, 201, 263-278.	5.2	78
12	FAP20 is an inner junction protein of doublet microtubules essential for both the planar asymmetrical waveform and stability of flagella inChlamydomonas. Molecular Biology of the Cell, 2014, 25, 1472-1483.	2.1	76
13	Discrete PIH proteins function in the cytoplasmic preassembly of different subsets of axonemal dyneins. Journal of Cell Biology, 2010, 190, 65-71.	5.2	74
14	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centrioleAarchitecture. Nature Cell Biology, 2016, 18, 393-403.	10.3	73
15	Rib72, a Conserved Protein Associated with the Ribbon Compartment of Flagellar A-microtubules and Potentially Involved in the Linkage between Outer Doublet Microtubules. Journal of Biological Chemistry, 2003, 278, 7725-7734.	3.4	72
16	Eyespot-dependent determination of the phototactic sign in Chlamydomonas reinhardtii. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5299-5304.	7.1	70
17	TTC26/DYF13 is an intraflagellar transport protein required for transport of motility-related proteins into flagella. ELife, 2014, 3, e01566.	6.0	69
18	Phototactic activity in Chlamydomonas 'non-phototactic' mutants deficient in Ca2+-dependent control of flagellar dominance or in inner-arm dynein. Journal of Cell Science, 2005, 118, 529-537.	2.0	64

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19	Purification of Tetrahymena actin reveals some unusual properties.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 75-79.	7.1	63
20	Cartwheel assembly. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130458.	4.0	61
21	Algal Dual-Specificity Tyrosine Phosphorylation-Regulated Kinase, Triacylglycerol Accumulation Regulator1, Regulates Accumulation of Triacylglycerol in Nitrogen or Sulfur Deficiency. Plant Physiology, 2015, 168, 752-764.	4.8	61
22	The mouse ortholog of EFHC1 implicated in juvenile myoclonic epilepsy is an axonemal protein widely conserved among organisms with motile cilia and flagella. FEBS Letters, 2005, 579, 819-822.	2.8	56
23	A micronucleus-specific sequence exists in the 5â€²-upstream region of calmodulin gene inTetrahymena thermophila. Nucleic Acids Research, 1993, 21, 2409-2414.	14.5	51
24	Highly Divergent Actin Expressed in aChlamydomonasMutant Lacking the Conventional Actin Gene. Biochemical and Biophysical Research Communications, 1998, 251, 71-76.	2.1	50
25	Reduced tubulin polyglutamylation suppresses flagellar shortness inChlamydomonas. Molecular Biology of the Cell, 2015, 26, 2810-2822.	2.1	50
26	Tetrahymena Actin: Localization and Possible Biological Roles of Actin in Tetrahymena Cells1. Journal of Biochemistry, 1987, 102, 537-545.	1.7	49
27	Tetrahymena Profilin Is Localized in the Division Furrow. Journal of Biochemistry, 1992, 112, 637-642.	1.7	47
28	Holliday junction resolvases mediate chloroplast nucleoid segregation. Science, 2017, 356, 631-634.	12.6	44
29	Cloning and characterization of the actin-encoding gene of Chlamydomonas reinhardtii. Gene, 1996, 168, 117-121.	2.2	42
30	The Simplest Integrated Multicellular Organism Unveiled. PLoS ONE, 2013, 8, e81641.	2.5	40
31	Kinesin-II is not essential for mitosis and cell growth inChlamydomonas. Cytoskeleton, 2002, 52, 195-201.	4.4	39
32	Isolation and characterization of novelChlamydomonas mutants that display phototaxis but not photophobic response. , 1998, 41, 353-362.		38
33	Tetrahymena 14-NM filament-forming protein has citrate synthase activity. Biochemical and Biophysical Research Communications, 1991, 174, 1028-1034.	2.1	37
34	Expression of Conventional and Unconventional Actins in Chlamydomonas reinhardtii upon Deflagellation and Sexual Adhesion. Eukaryotic Cell, 2003, 2, 486-493.	3.4	32
35	Immunological detection of actin in the 14S ciliary dynein ofTetrahymena. FEBS Letters, 1994, 343, 173-176.	2.8	31
36	A conserved flagella-associated protein inChlamydomonas, FAP234, is essential for axonemal localization of tubulin polyglutamylase TTLL9. Molecular Biology of the Cell, 2014, 25, 107-117.	2.1	30

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37	Tetrahymena Actin: Copolymerization with Skeletal Muscle Actin and Interactions with Muscle Actin-Binding Proteins. Journal of Biochemistry, 1990, 107, 32-36.	1.7	30
38	Involvement of Tetrahymena intermediate filament protein, a 49K protein, in the oral morphogenesis. Experimental Cell Research, 1983, 148, 207-220.	2.6	29
39	Isolation and characterization of novel high-CO2-requiring mutants of Chlamydomonas reinhardtii. Photosynthesis Research, 2014, 121, 175-184.	2.9	27
40	Identification of the agg1 mutation responsible for negative phototaxis in a â€œwild-typeâ€•strain of Chlamydomonas reinhardtii. Biochemistry and Biophysics Reports, 2016, 7, 379-385.	1.3	26
41	The primary structure of Tetrahymena profilin. Biochemical and Biophysical Research Communications, 1991, 175, 543-550.	2.1	24
42	Establishment of publicly available cDNA material and information resource of Chlamydomonas reinhardtii (Chlorophyta) to facilitate gene function analysis. Phycologia, 2004, 43, 722-726.	1.4	24
43	Recovery of flagellar dynein function in aChlamydomonas actin/dynein-deficient mutant upon introduction of muscle actin by electroporation. Cytoskeleton, 2001, 49, 146-153.	4.4	18
44	Alternative evolution of a spheroidal colony in volvocine algae: developmental analysis of embryogenesis in Astrephomene (Volvocales, Chlorophyta). BMC Evolutionary Biology, 2016, 16, 243.	3.2	17
45	Space-Dependent Formation of Central Pair Microtubules and Their Interactions with Radial Spokes. PLoS ONE, 2014, 9, e110513.	2.5	16
46	Scaffolding function of the Chlamydomonas procentriole protein CRC70, a member of the conserved Cep70 family. Journal of Cell Science, 2011, 124, 2964-2975.	2.0	14
47	Isolation and Phenotypic Characterization of Chlamydomonas Mutants Defective in Cytokinesis.. Cell Structure and Function, 1997, 22, 1-5.	1.1	13
48	Recovery of Flagellar Inner-arm Dynein and the Fertilization Tubule in Chlamydomonas ida5 Mutant by Transformation with Actin Genes.. Cell Structure and Function, 1998, 23, 273-281.	1.1	13
49	Timing of formation ofTetrahymena contractile ring microfilaments investigated by inhibition with skeletal muscle actin. Genesis, 1992, 13, 210-215.	2.1	12
50	Rescue of aChlamydomonas inner-arm-dynein-deficient mutant by electroporation-mediated delivery of recombinant p28 light chain. Cytoskeleton, 2002, 53, 273-280.	4.4	12
51	Analysis of Furrow Formation and Furrowing during Cell Division in Tetrahymena Using Cell-Division-Arrest Mutants. Annals of the New York Academy of Sciences, 1990, 582, 166-178.	3.8	10
52	Purification and characterization of Tetrahymena profilin. Biochemical and Biophysical Research Communications, 1990, 170, 957-962.	2.1	10
53	Drastic Change in the Level of Actin mRNA in the Course of Synchronous Division in Tetrahymena. Journal of Biochemistry, 1991, 109, 399-403.	1.7	9
54	A Novel Family of Unconventional Actins in Volvocalean Algae. Journal of Molecular Evolution, 2003, 57, 555-561.	1.8	9

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55	The roles of a flagellar HSP40 ensuring rhythmic beating. Molecular Biology of the Cell, 2019, 30, 228-241.	2.1	9
56	A novel Vero cell line for use as a mammalian host-vector system in serum-free medium. Cytotechnology, 1991, 7, 165-172.	1.6	7
57	A chimeric actin carrying N-terminal portion of tetrahymena actin does not bind to DNAse I. Biochemical and Biophysical Research Communications, 1992, 184, 1511-1516.	2.1	5
58	Expression of tetrahymena actin in mammalian cells. Cell Biology International Reports, 1992, 16, 645-651.	0.6	1