

# Kazuo Inaba

## List of Publications by Year in descending order

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110  
papers

5,950  
citations

147801

31  
h-index

76900

74  
g-index

115  
all docs

115  
docs citations

115  
times ranked

5209  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Roles of Two CNG Channels in the Regulation of Ascidian Sperm Chemotaxis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1648.	4.1	5
2	Morphological differences in tardigrade spermatozoa induce variation in gamete motility. <i>BMC Zoology</i> , 2022, 7, .	1.0	1
3	A New Species of Acoela Possessing a Middorsal Appendage with a Possible Sensory Function. <i>Zoological Science</i> , 2022, 39, 147-156.	0.7	2
4	JAMBIO and Its Coastal Organism Joint Surveys: Network of Marine Stations Explores Japanese Coastal Biota. <i>Zoological Science</i> , 2022, 39, 1-6.	0.7	0
5	Flagellar motility during sperm chemotaxis and phototaxis in fucalean algae. <i>European Journal of Phycology</i> , 2021, 56, 85-93.	2.0	2
6	A dynein-associated photoreceptor protein prevents ciliary acclimation to blue light. <i>Science Advances</i> , 2021, 7, .	10.3	10
7	Structural diversity and distribution of cilia in the apical sense organ of the ctenophore <i>Bolinopsis mikado</i> . <i>Cytoskeleton</i> , 2020, 77, 442-455.	2.0	10
8	Decreased motility of flagellated microalgae long-term acclimated to CO <sub>2</sub> -induced acidified waters. <i>Nature Climate Change</i> , 2020, 10, 561-567.	18.8	20
9	Tree of motility – A proposed history of motility systems in the tree of life. <i>Genes To Cells</i> , 2020, 25, 6-21.	1.2	108
10	Nexin-Dynein regulatory complex component DRC7 but not FBXL13 is required for sperm flagellum formation and male fertility in mice. <i>PLoS Genetics</i> , 2020, 16, e1008585.	3.5	28
11	Changes in fish communities due to benthic habitat shifts under ocean acidification conditions. <i>Science of the Total Environment</i> , 2020, 725, 138501.	8.0	30
12	Region-Specific Loss of Two-Headed Ciliary Dyneins in Ascidian Endostyle. <i>Zoological Science</i> , 2020, 37, 512-518.	0.7	2
13	CTENO64 Is Required for Coordinated Paddling of Ciliary Comb Plate in Ctenophores. <i>Current Biology</i> , 2019, 29, 3510-3516.e4.	3.9	18
14	A brown algal sex pheromone reverses the sign of phototaxis by cAMP/Ca <sup>2+</sup> -dependent signaling in the male gametes of <i>Mutimo cylindricus</i> (Cutleriaceae). <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 192, 113-123.	3.8	6
15	Single-cell genomics unveiled a cryptic cyanobacterial lineage with a worldwide distribution hidden by a dinoflagellate host. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15973-15978.	7.1	27
16	Calaxin is required for cilia-driven determination of vertebrate laterality. <i>Communications Biology</i> , 2019, 2, 226.	4.4	26
17	Microtubule stabilizer reveals requirement of Ca <sup>2+</sup> -dependent conformational changes of microtubules for rapid coiling of haptonema in haptophyte algae. <i>Biology Open</i> , 2019, 8, .	1.2	8
18	Opening the black box: microspatial patterns of zoospore dispersal, parentage, and selfing in the kelp <i>Ecklonia cava</i> as revealed by microsatellite markers. <i>Journal of Applied Phycology</i> , 2019, 31, 3283-3294.	2.8	6

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19	A Unique Seminal Plasma Protein, Zona Pellucida 3-Like Protein, has Ca <sup>2+</sup> -Dependent Sperm Agglutination Activity. <i>Zoological Science</i> , 2018, 35, 161.	0.7	1
20	Crystal structure of a Ca <sup>2+</sup> -dependent regulator of flagellar motility reveals the open-closed structural transition. <i>Scientific Reports</i> , 2018, 8, 2014.	3.3	7
21	Post-Embryonic Development and Genital-Complex Formation in Three Species of Polyclad Flatworms. <i>Zoological Science</i> , 2018, 35, 28.	0.7	4
22	Ca <sup>2+</sup> efflux via plasma membrane Ca <sup>2+</sup> -ATPase mediates chemotaxis in ascidian sperm. <i>Scientific Reports</i> , 2018, 8, 16622.	3.3	22
23	14-3-3 $\mu$ a directs the pulsatile transport of basal factors toward the apical domain for lumen growth in tubulogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8873-E8881.	7.1	17
24	Microscopic analysis of sperm movement: links to mechanisms and protein components. <i>Microscopy (Oxford, England)</i> , 2018, 67, 144-155.	1.5	19
25	Release of Sticky Glycoproteins from <i>Chlamydomonas</i> Flagella During Microsphere Translocation on the Surface Membrane. <i>Zoological Science</i> , 2018, 35, 299.	0.7	24
26	Inverse relationship of Ca <sup>2+</sup> -dependent flagellar response between animal sperm and prasinophyte algae. <i>Journal of Plant Research</i> , 2017, 130, 465-473.	2.4	5
27	Calaxin establishes basal body orientation and coordinates movement of monocilia in sea urchin embryos. <i>Scientific Reports</i> , 2017, 7, 10751.	3.3	12
28	<i>Chlamydomonas</i> DYX1C1/PF23 is essential for axonemal assembly and proper morphology of inner dynein arms. <i>PLoS Genetics</i> , 2017, 13, e1006996.	3.5	32
29	Cooperative Wnt-Nodal Signals Regulate the Patterning of Anterior Neuroectoderm. <i>PLoS Genetics</i> , 2016, 12, e1006001.	3.5	36
30	Doublet 7 shortening, doublet 5-preferential poly-Glu reduction, and beating stall of sperm flagella in <i>Ctll9</i> mice. <i>Journal of Cell Science</i> , 2016, 129, 2757-66.	2.0	37
31	Flagellar waveforms of gametes in the brown alga <i>Ectocarpus siliculosus</i> . <i>European Journal of Phycology</i> , 2016, 51, 139-148.	2.0	13
32	Sperm dysfunction and ciliopathy. <i>Reproductive Medicine and Biology</i> , 2016, 15, 77-94.	2.4	51
33	Japanese marine biological stations: Preface to the special issue. <i>Regional Studies in Marine Science</i> , 2015, 2, 154-157.	0.7	7
34	Branchial Cilia and Sperm Flagella Recruit Distinct Axonemal Components. <i>PLoS ONE</i> , 2015, 10, e0126005.	2.5	24
35	Calcium sensors of ciliary outer arm dynein: functions and phylogenetic considerations for eukaryotic evolution. <i>Cilia</i> , 2015, 4, 6.	1.8	53
36	Sustained Heterozygosity Across a Self-Incompatibility Locus in an Inbred Ascidian. <i>Molecular Biology and Evolution</i> , 2015, 32, 81-90.	8.9	6

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37	Geochemistry of two shallow CO <sub>2</sub> seeps in Shikine Island (Japan) and their potential for ocean acidification research. <i>Regional Studies in Marine Science</i> , 2015, 2, 45-53.	0.7	27
38	Sperm calcineurin inhibition prevents mouse fertility with implications for male contraceptive. <i>Science</i> , 2015, 350, 442-445.	12.6	137
39	Autonomous changes in the swimming direction of sperm in the gastropod <i>Strombus luhuanus</i> . <i>Journal of Experimental Biology</i> , 2014, 217, 986-96.	1.7	10
40	Sperm Proteases that May Be Involved in the Initiation of Sperm Motility in the Newt, <i>Cynops pyrrhogaster</i> . <i>International Journal of Molecular Sciences</i> , 2014, 15, 15210-15224.	4.1	6
41	Distinct Roles of Soluble and Transmembrane Adenylyl Cyclases in the Regulation of Flagellar Motility in <i>Ciona</i> Sperm. <i>International Journal of Molecular Sciences</i> , 2014, 15, 13192-13208.	4.1	19
42	Species and gamete-specific fertilization success of two sea urchins under near future levels of pCO <sub>2</sub> . <i>Journal of Marine Systems</i> , 2014, 137, 67-73.	2.1	22
43	Protease in sturgeon sperm and the effects of protease inhibitors on sperm motility and velocity. <i>Fish Physiology and Biochemistry</i> , 2014, 40, 1393-1398.	2.3	5
44	Sperm from Sneaker Male Squids Exhibit Chemotactic Swarming to CO <sub>2</sub> . <i>Current Biology</i> , 2013, 23, 775-781.	3.9	50
45	Distinct Ca <sup>2+</sup> channels maintain a high motility state of the sperm that may be needed for penetration of egg jelly of the newt, <i>Cynops pyrrhogaster</i> . <i>Development Growth and Differentiation</i> , 2013, 55, 657-667.	1.5	12
46	Glutathione transferase theta in apical ciliary tuft regulates mechanical reception and swimming behavior of Sea Urchin Embryos. <i>Cytoskeleton</i> , 2013, 70, 453-470.	2.0	7
47	Black Tea High-Molecular-Weight Polyphenol Increases the Motility of Sea Urchin Sperm by Activating Mitochondrial Respiration. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 2321-2324.	1.3	4
48	Self-incompatibility response induced by calcium increase in sperm of the ascidian <i>Ciona intestinalis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4158-4162.	7.1	28
49	Tubulin-dynein system in flagellar and ciliary movement. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2012, 88, 397-415.	3.8	45
50	Calaxin drives sperm chemotaxis by Ca <sup>2+</sup> -mediated direct modulation of a dynein motor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20497-20502.	7.1	80
51	Isolation and functional characterization for oocyte maturation and sperm motility of the oocyte maturation arresting factor from the Japanese scallop, <i>Patinopecten yessoensis</i> . <i>General and Comparative Endocrinology</i> , 2012, 179, 350-357.	1.8	13
52	Development of 12 polymorphic microsatellite DNA markers for the kelp <i>Ecklonia cava</i> (Phaeophyceae). <i>Tj ETQq0 0,0,rgBT /Oyerlock 10</i>	0.8	4
53	Zinc finger homeobox is required for the differentiation of serotonergic neurons in the sea urchin embryo. <i>Developmental Biology</i> , 2012, 363, 74-83.	2.0	33
54	Proteomic profiling reveals compartment-specific, novel functions of ascidian sperm proteins. <i>Molecular Reproduction and Development</i> , 2011, 78, 529-549.	2.0	19

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55	Lipid rafts function in Ca <sup>2+</sup> signaling responsible for activation of sperm motility and chemotaxis in the ascidian <i>Ciona intestinalis</i> . <i>Molecular Reproduction and Development</i> , 2011, 78, 920-929.	2.0	10
56	CIPRO 2.5: <i>Ciona intestinalis</i> protein database, a unique integrated repository of large-scale omics data, bioinformatic analyses and curated annotation, with user rating and reviewing functionality. <i>Nucleic Acids Research</i> , 2011, 39, D807-D814.	14.5	24
57	Sperm flagella: comparative and phylogenetic perspectives of protein components. <i>Molecular Human Reproduction</i> , 2011, 17, 524-538.	2.8	198
58	Network structure of projections extending from peripheral neurons in the tunic of ascidian larva. <i>Developmental Dynamics</i> , 2010, 239, 2278-2287.	1.8	17
59	Distribution and structural diversity of cilia in tadpole larvae of the ascidian <i>Ciona intestinalis</i> . <i>Developmental Biology</i> , 2010, 337, 42-62.	2.0	34
60	ankAT-1 is a novel gene mediating the apical tuft formation in the sea urchin embryo. <i>Developmental Biology</i> , 2010, 348, 67-75.	2.0	35
61	Multidimensional Analysis of Uncharacterized Sperm Proteins in <i>Ciona intestinalis</i> : EST-Based Analysis and Functional Immunoscreening of Testis-Expressed Genes. <i>Zoological Science</i> , 2010, 27, 204-215.	0.7	13
62	Proteomic characterization of sperm radial spokes identifies a novel spoke protein with an ubiquitin domain. <i>FEBS Letters</i> , 2009, 583, 2201-2207.	2.8	27
63	Proteomic profiles of embryonic development in the ascidian <i>Ciona intestinalis</i> . <i>Developmental Biology</i> , 2009, 325, 468-481.	2.0	29
64	A novel neuronal calcium sensor family protein, calaxin, is a potential Ca <sup>2+</sup> -dependent regulator for the outer arm dynein of metazoan cilia and flagella. <i>Biology of the Cell</i> , 2009, 101, 91-103.	2.0	68
65	Purification of Dyneins from Sperm Flagella. <i>Methods in Cell Biology</i> , 2009, 92, 49-63.	1.1	5
66	<i>Ciona intestinalis</i> and <i>Oxycomanthus japonicus</i> , Representatives of Marine Invertebrates. <i>Experimental Animals</i> , 2009, 58, 459-469.	1.1	22
67	Molecular characterization of axonemal proteins and signaling molecules responsible for chemoattractant-induced sperm activation in <i>Ciona intestinalis</i> . <i>Cytoskeleton</i> , 2008, 65, 249-267.	4.4	36
68	Valosin-containing protein/p97 interacts with sperm-activating and sperm-attracting factor (SAAF) in the ascidian egg and modulates sperm-attracting activity. <i>Development Growth and Differentiation</i> , 2008, 50, 665-673.	1.5	10
69	Improved genome assembly and evidence-based global gene model set for the chordate <i>Ciona intestinalis</i> : new insight into intron and operon populations. <i>Genome Biology</i> , 2008, 9, R152.	9.6	192
70	A web-based interactive developmental table for the ascidian <i>Ciona intestinalis</i> , including 3D real-image embryo reconstructions: I. From fertilized egg to hatching larva. <i>Developmental Dynamics</i> , 2007, 236, 1790-1805.	1.8	234
71	Molecular Basis of Sperm Flagellar Axonemes: Structural and Evolutionary Aspects. <i>Annals of the New York Academy of Sciences</i> , 2007, 1101, 506-526.	3.8	83
72	Association of a 66 kDa Homolog of <i>Chlamydomonas</i> DC2, a Subunit of the Outer Arm Docking Complex, with Outer Arm Dynein of Sperm Flagella in the Ascidian <i>Ciona intestinalis</i> . <i>Zoological Science</i> , 2006, 23, 679-687.	0.7	11

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73	Ap58: A novel in situ outer dynein arm-binding protein. <i>Biochemical and Biophysical Research Communications</i> , 2006, 343, 385-390.	2.1	17
74	A novel oocyte maturation arresting factor in the central nervous system of scallops inhibits serotonin-induced oocyte maturation and spawning of bivalve mollusks. <i>General and Comparative Endocrinology</i> , 2006, 147, 352-361.	1.8	31
75	Molecular characterization of <i>Ciona</i> sperm outer arm dynein reveals multiple components related to outer arm docking complex protein 2. <i>Cytoskeleton</i> , 2006, 63, 591-603.	4.4	29
76	Phosphoinositide phosphatase activity coupled to an intrinsic voltage sensor. <i>Nature</i> , 2005, 435, 1239-1243.	27.8	639
77	Molecular Characterization of Radial Spoke Subcomplex Containing Radial Spoke Protein 3 and Heat Shock Protein 40 in Sperm Flagella of the Ascidian <i>Ciona intestinalis</i> . <i>Molecular Biology of the Cell</i> , 2005, 16, 626-636.	2.1	57
78	Local database and the search program for proteomic analysis of sperm proteins in the ascidian <i>Ciona intestinalis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2004, 319, 1241-1246.	2.1	28
79	Sperm motility-activating complex formed by t-complex distorters. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 1155-1159.	2.1	1
80	Characterization of a cAMP-dependent protein kinase catalytic subunit from rainbow trout spermatozoa. <i>Biochemical and Biophysical Research Communications</i> , 2003, 305, 855-861.	2.1	38
81	Molecular Architecture of the Sperm Flagella: Molecules for Motility and Signaling. <i>Zoological Science</i> , 2003, 20, 1043-1056.	0.7	212
82	DC3, the 21-kDa Subunit of the Outer Dynein Arm-Docking Complex (ODA-DC), Is a Novel EF-Hand Protein Important for Assembly of Both the Outer Arm and the ODA-DC. <i>Molecular Biology of the Cell</i> , 2003, 14, 3650-3663.	2.1	95
83	Identification of a Novel Leucine-rich Repeat Protein as a Component of Flagellar Radial Spoke in the Ascidian <i>Ciona intestinalis</i> . <i>Molecular Biology of the Cell</i> , 2003, 14, 774-785.	2.1	52
84	A chemoattractant for ascidian spermatozoa is a sulfated steroid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14831-14836.	7.1	163
85	The Draft Genome of <i>Ciona intestinalis</i> : Insights into Chordate and Vertebrate Origins. <i>Science</i> , 2002, 298, 2157-2167.	12.6	1,539
86	Dephosphorylation of Tctex2-related dynein light chain by type 2A protein phosphatase. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 800-805.	2.1	19
87	EST analysis of gene expression in testis of the ascidian <i>Ciona intestinalis</i> . <i>Molecular Reproduction and Development</i> , 2002, 62, 431-445.	2.0	51
88	Molecular cloning and characterization of a thioredoxin/nucleoside diphosphate kinase related dynein intermediate chain from the ascidian, <i>Ciona intestinalis</i> . <i>Gene</i> , 2001, 275, 177-183.	2.2	59
89	Transmembrane Cell Signaling for the Initiation of Trout Sperm Motility: Roles of Ion Channels and Membrane Hyperpolarization for Cyclic AMP Synthesis. <i>Zoological Science</i> , 2001, 18, 919-928.	0.7	40
90	Conformational Changes of Dynein: Mapping and Sequence Analysis of ATP/Vanadate-Dependent Trypsin-Sensitive Sites on the Outer Arm Dynein Heavy Chain from Sea Urchin Sperm Flagell. <i>Journal of Biochemistry</i> , 2000, 127, 1115-1120.	1.7	8

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91	Cyclic AMP- and calmodulin-dependent phosphorylation of 21 and 26 kDa proteins in axoneme is a prerequisite for SAAF-induced motile activation in ascidian spermatozoa. <i>Development Growth and Differentiation</i> , 2000, 42, 129-138.	1.5	55
92	Phosphorylation of axonemal 21 kDa and 26 kDa proteins modulates activation of sperm motility in the ascidian, <i>Ciona intestinalis</i> . <i>Zygote</i> , 1999, 8, S59-S60.	1.1	1
93	Purification and characterization of prolyl endopeptidase from the Pacific herring, <i>Clupea pallasii</i> , and its role in the activation of sperm motility. <i>Development Growth and Differentiation</i> , 1999, 41, 217-225.	1.5	23
94	Tctex2-Related Outer Arm Dynein Light Chain Is Phosphorylated at Activation of Sperm Motility. <i>Biochemical and Biophysical Research Communications</i> , 1999, 256, 177-183.	2.1	89
95	Membrane Hyperpolarization by Sperm-Activating and -Attracting Factor Increases cAMP Level and Activates Sperm Motility in the Ascidian <i>Ciona intestinalis</i> . <i>Developmental Biology</i> , 1999, 213, 246-256.	2.0	58
96	The <i>Chlamydomonas reinhardtii</i> ODA3 Gene Encodes a Protein of the Outer Dynein Arm Docking Complex. <i>Journal of Cell Biology</i> , 1997, 137, 1069-1080.	5.2	110
97	Genetic Relationships of the Genus <i>Tridentiger</i> (Pisces, Gobiidae) Based on Allozyme Polymorphism. <i>Zoological Science</i> , 1996, 13, 175-183.	0.7	9
98	ATP-Dependent Conformational Changes of Dynein: Evidence for Changes in the Interaction of Dynein Heavy Chain with the Intermediate Chain 11. <i>Journal of Biochemistry</i> , 1995, 117, 903-907.	1.7	7
99	Calcium and Cyclic AMP Mediate Sperm Activation, but Ca <sup>2+</sup> Alone Contributes Sperm Chemotaxis in the Ascidian, <i>Ciona savignyi</i> . ( <i>ascidian/sperm motility/chemotaxis/calcium/cAMP</i> ). <i>Development Growth and Differentiation</i> , 1994, 36, 589-595.	1.5	51
100	Monoclonal Antibodies against the Protein Complex That Contains the Flagellar Movement-Initiating Phosphoprotein of <i>Oncorhynchus keta</i> . <i>Journal of Biochemistry</i> , 1994, 115, 885-890.	1.7	17
101	Sperm Chemotaxis during the Process of Fertilization in the Ascidians <i>Ciona savignyi</i> and <i>Ciona intestinalis</i> . <i>Developmental Biology</i> , 1993, 157, 497-506.	2.0	112
102	Chymotrypsin-like protease activity associated with demembrated sperm of chum salmon. <i>Biology of the Cell</i> , 1992, 76, 329-333.	2.0	19
103	Two high molecular mass proteases from sea urchin sperm. <i>Biochemical and Biophysical Research Communications</i> , 1992, 182, 667-674.	2.1	20
104	Mapping of ATP-Dependent Trypsin-Sensitive Sites on the $\hat{I}^2$ Chain of Outer-Arm Dynein from Sea Urchin Sperm Flagella1. <i>Journal of Biochemistry</i> , 1991, 110, 795-801.	1.7	4
105	Conformational Changes of the $\hat{I}^2$ Chain of the Outer-Arm Dynein from Sea Urchin Sperm Flagella Coupled with ATP Hydrolysis1. <i>Journal of Biochemistry</i> , 1990, 108, 663-668.	1.7	4
106	Anthraniloyl ATP, a fluorescent analog of ATP, as a substrate for dynein ATPase and flagellar motility. <i>Archives of Biochemistry and Biophysics</i> , 1989, 274, 209-215.	3.0	13
107	Two States of the Conformation of 21S Outer Arm Dynein Coupled with ATP Hydrolysis1. <i>Journal of Biochemistry</i> , 1989, 106, 349-354.	1.7	12
108	B-band protein in sea urchin sperm flagella. <i>Cytoskeleton</i> , 1988, 10, 506-517.	4.4	15

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109	CTENO64 is Required for Coordinated Paddling of Ciliary Comb Plate in Ctenophores. SSRN Electronic Journal, 0, , .	0.4	0
110	Axonemal Growth and Alignment During Paraspermatogenesis in the Marine Gastropod Strombus luhuanus. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	0