

Motonori Hoshi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

2,413
citations

26
h-index

41
g-index

123
ext. papers

2,514
ext. citations

2.8
avg, IF

4.2
L-index

#	Paper	IF	Citations
123	The identification of D-tryptophan as a bioactive substance for postembryonic ovarian development in the planarian <i>Dugesia ryukyuensis</i> . <i>Scientific Reports</i> , 2017 , 7, 45175	4.9	12
122	Existence of two sexual races in the planarian species switching between asexual and sexual reproduction. <i>Zoological Science</i> , 2012 , 29, 265-72	0.8	10
121	Structure of acrosome reaction-inducing substance in the jelly coat of starfish eggs: a mini review. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 425, 595-8	3.4	25
120	Stem cells from innate sexual but not acquired sexual planarians have the capability to form a sexual individual. <i>Molecular Reproduction and Development</i> , 2012 , 79, 757-66	2.6	4
119	Effects of 17 β -estradiol and bisphenol A on the formation of reproductive organs in planarians. <i>Biological Bulletin</i> , 2011 , 220, 47-56	1.5	8
118	Novel conserved structural domains of acrosome reaction-inducing substance are widespread in invertebrates. <i>Molecular Reproduction and Development</i> , 2011 , 78, 57-66	2.6	6
117	Sex-inducing effect of a hydrophilic fraction on reproductive switching in the planarian <i>Dugesia ryukyuensis</i> (Seriata, Tricladida). <i>Frontiers in Zoology</i> , 2011 , 8, 23	2.8	15
116	Acrosome reaction-related steroidal saponin, Co-ARIS, from the starfish induces structural changes in microdomains. <i>Developmental Biology</i> , 2010 , 347, 147-53	3.1	13
115	Production of asexual and sexual offspring in the triploid sexual planarian <i>Dugesia ryukyuensis</i> . <i>Integrative Zoology</i> , 2009 , 4, 265-71	1.9	7
114	Neoblast-enriched fraction rescues eye formation in eye-defective planarian <i>SnenashiDugesia ryukyuensis</i> . <i>Development Growth and Differentiation</i> , 2008 , 50, 689-96	3	7
113	Egg and sperm recognition systems during fertilization. <i>Development Growth and Differentiation</i> , 2008 , 50 Suppl 1, S221-38	3	59
112	A chloride ion channel in <i>Halocynthia roretzi</i> hemocytes is associated with PO activity but not pigmentation during the contact reaction. <i>Zoological Science</i> , 2008 , 25, 1130-8	0.8	1
111	Conserved sequences of sperm-activating peptide and its receptor throughout evolution, despite speciation in the sea star <i>Asterias amurensis</i> and closely related species. <i>Zygote</i> , 2008 , 16, 229-37	1.6	9
110	Regulation of the starfish sperm acrosome reaction by cGMP, pH, cAMP and Ca ²⁺ . <i>International Journal of Developmental Biology</i> , 2008 , 52, 523-6	1.9	11
109	Production of diploid and triploid offspring by inbreeding of the triploid planarian <i>Dugesia ryukyuensis</i> . <i>Chromosoma</i> , 2008 , 117, 289-96	2.8	8
108	The <i>Dugesia ryukyuensis</i> database as a molecular resource for studying switching of the reproductive system. <i>Zoological Science</i> , 2007 , 24, 31-7	0.8	23
107	Cyclic AMP-dependent PKA phosphorylates starfish sperm proteins during acrosome reaction. <i>Open Life Sciences</i> , 2007 , 2, 109-121	1.2	

106	Peptide-induced hyperactivation-like vigorous flagellar movement in starfish sperm. <i>Zygote</i> , 2006 , 14, 23-32	1.6	14
105	Na ⁺ /Ca ²⁺ exchanger contributes to asterosap-induced elevation of intracellular Ca ²⁺ concentration in starfish spermatozoa. <i>Zygote</i> , 2006 , 14, 133-41	1.6	8
104	Acrosome reaction is subfamily specific in sea star fertilization. <i>Developmental Biology</i> , 2006 , 298, 597-604	1.6	12
103	Ca ²⁺ spikes in the flagellum control chemotactic behavior of sperm. <i>EMBO Journal</i> , 2005 , 24, 2741-52	1.3	151
102	Comparative study of eye defective worm <i>SnenashiSand</i> regenerating wild-type in planarian, <i>Dugesia ryukyuensis</i> . <i>Pigment Cell & Melanoma Research</i> , 2005 , 18, 86-91		7
101	Asterosap-induced elevation in intracellular pH is indispensable for ARIS-induced sustained increase in intracellular Ca ²⁺ and following acrosome reaction in starfish spermatozoa. <i>Zygote</i> , 2005 , 13, 63-71	1.6	10
100	Guanylyl cyclase and cGMP-specific phosphodiesterase participate in the acrosome reaction of starfish sperm. <i>Zygote</i> , 2004 , 12, 345-55	1.6	3
99	Biochemical characterization of inner sugar chains of acrosome reaction-inducing substance in jelly coat of starfish eggs. <i>Glycobiology</i> , 2003 , 13, 567-80	5.8	12
98	Transcriptional pattern of a novel gene, expressed specifically after the point-of-no-return during sexualization, in planaria. <i>Development Genes and Evolution</i> , 2003 , 212, 585-92	1.8	22
97	A sperm-activating peptide controls a cGMP-signaling pathway in starfish sperm. <i>Developmental Biology</i> , 2003 , 260, 314-24	3.1	76
96	Switch from Asexual to Sexual Reproduction in the Planarian <i>Dugesia ryukyuensis</i> . <i>Integrative and Comparative Biology</i> , 2003 , 43, 242-6	2.8	23
95	Switching from asexual to sexual reproduction in the planarian <i>Dugesia ryukyuensis</i> : change of the fissiparous capacity along with the sexualizing process. <i>Zoological Science</i> , 2002 , 19, 661-6	0.8	36
94	Signification of the sexualizing substance produced by the sexualized planarians. <i>Zoological Science</i> , 2002 , 19, 667-72	0.8	19
93	Characterization of the sperm receptor for acrosome reaction-inducing substance of the starfish, <i>Asterias amurensis</i> . <i>Zoological Science</i> , 2002 , 19, 435-42	0.8	10
92	Seasonal changes in the sexualization of the planarian <i>Dugesia ryukyuensis</i> . <i>Zoological Science</i> , 2002 , 19, 1267-78	0.8	14
91	Re-examination of sibling cross-sterility in the ascidian, <i>Ciona intestinalis</i> : genetic background of the self-sterility. <i>Zoological Science</i> , 2002 , 19, 527-38	0.8	20
90	Analysis of the Self-sterility in <i>Halocynthia roretzi</i> 2001 , 9-13		
89	A 130-kDa membrane protein of sperm flagella is the receptor for asterosaps, sperm-activating peptides of starfish <i>Asterias amurensis</i> . <i>Developmental Biology</i> , 2000 , 219, 154-62	3.1	40

88	Acrosome reaction in starfish: signal molecules in the jelly coat and their receptors. <i>Zygote</i> , 1999 , 8, S26-S27		
87	Species-specificity of the acrosome reaction in starfish. <i>Zygote</i> , 1999 , 8, S62-S62	1.6	1
86	Sulfated O-linked glycans of the vitelline coat as ligands in gamete interaction in the ascidian, <i>Halocynthia roretzi</i> . <i>Development Growth and Differentiation</i> , 1999 , 41, 357-64	3	14
85	Sequence analysis of cDNAs encoding precursors of starfish asterosaps. <i>Genesis</i> , 1999 , 25, 130-6		15
84	Switching from Asexual to Sexual Reproduction in the Planarian <i>Dugesia ryukyuensis</i> : Bioassay System and Basic Description of Sexualizing Process. <i>Zoological Science</i> , 1999 , 16, 291-298	0.8	41
83	Neutral and acidic glycosphingolipids in glucocorticoid-induced cataract in chick lens. <i>Experimental Eye Research</i> , 1999 , 68, 229-36	3.7	8
82	Induction of germinal vesicle breakdown in a cell-free preparation from starfish oocytes. <i>Developmental Biology</i> , 1999 , 205, 217-23	3.1	11
81	Activation of the proteasomes of sand dollar eggs at fertilization depends on the intracellular pH rise. <i>Developmental Biology</i> , 1999 , 209, 52-9	3.1	11
80	G-protein betagamma subunit-dependent phosphorylation of 62-kDa protein in the early signaling pathway of starfish oocyte maturation induced by 1-methyladenine. <i>Developmental Biology</i> , 1999 , 209, 200-9	3.1	12
79	Characterization of the sulfated fucose-containing trisaccharides by fast atom bombardment tandem mass spectrometry in the study of the acrosome reaction-inducing substance of the starfish, <i>Asterias amurensis</i> . <i>Journal of Mass Spectrometry</i> , 1998 , 33, 35-44	2.2	5
78	Expression of sialylated Lewisx gangliosides in cultured lens epithelial cells from rhesus monkey. <i>Experimental Eye Research</i> , 1998 , 66, 765-73	3.7	7
77	Localization of LewisX, sialyl-LewisX and alpha-galactosyl epitopes on glycosphingolipids in lens tissues. <i>Glycobiology</i> , 1998 , 8, 95-105	5.8	14
76	Structure of the main saccharide chain in the acrosome reaction-inducing substance of the starfish, <i>Asterias amurensis</i> . <i>Journal of Biological Chemistry</i> , 1997 , 272, 10372-6	5.4	42
75	Association of the major ganglioside in sea urchin eggs with yolk lipoproteins. <i>Glycobiology</i> , 1997 , 7, 391-8	5.8	7
74	Developmental changes in carbohydrate antigens in embryonic rat lens. <i>Glycobiology</i> , 1997 , 7, 605-15	5.8	9
73	Detection of in vivo proteasome activity in a starfish oocyte using membrane-impermeant substrate. <i>Journal of Biochemistry</i> , 1997 , 122, 286-93	3.1	8
72	Identification and synthetic pathway of sialyl-Lewis(x)-containing neolacto-series gangliosides in lens tissues. 2. Enzymatic synthesis of sialyl-Lewis(x) gangliosides in monkey and rat lenses. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1996 , 1315, 29-36	6.9	1
71	G protein function in starfish oocyte maturation. <i>Invertebrate Reproduction and Development</i> , 1996 , 30, 117-122	0.7	2

70	Structure and function of asterosaps, sperm-activating peptides from the jelly coat of starfish eggs. <i>Zygote</i> , 1996 , 4, 237-45	1.6	79
69	Introduction to the symposium on oocyte maturation and fertilization. <i>Invertebrate Reproduction and Development</i> , 1996 , 30, 1-5	0.7	3
68	Hemocytes release phenoloxidase upon contact reaction, an allogeneic interaction, in the ascidian <i>Halocynthia roretzi</i> . <i>Cell Structure and Function</i> , 1995 , 20, 81-7	2.2	27
67	Cortical changes in starfish (<i>Asterina pectinifera</i>) oocytes during 1-methyladenine-induced maturation and fertilisation/activation. <i>Zygote</i> , 1995 , 3, 225-39	1.6	21
66	Localization of neutral and acidic glycosphingolipids in rat lens. <i>Glycobiology</i> , 1995 , 5, 187-94	5.8	12
65	Differential distribution of gangliosides in adult rat ovary during the oestrous cycle. <i>Glycobiology</i> , 1995 , 5, 299-309	5.8	16
64	A periodic network of G protein beta gamma subunit coexisting with cytokeratin filament in starfish oocytes. <i>Developmental Biology</i> , 1995 , 169, 415-20	3.1	18
63	Identification and synthetic pathway of sialyl-Lewisx-containing neolacto-series gangliosides in lens tissues. 1. Characterization of gangliosides in human senile cataractous lens. <i>Lipids and Lipid Metabolism</i> , 1995 , 1256, 166-74		5
62	Age-related changes in ganglioside composition in human lens. <i>Experimental Eye Research</i> , 1995 , 60, 317-23	3.7	12
61	Characterization of neutral glycosphingolipids in rat lens. <i>Experimental Eye Research</i> , 1995 , 60, 193-8	3.7	11
60	Estimation by radiation inactivation of the minimum functional size of acrosome-reaction-inducing substance (ARIS) in the starfish, <i>Asterias amurensis</i> . <i>Zygote</i> , 1995 , 3, 351-5	1.6	5
59	Ultrastructural localization of acrosome reaction-inducing substance (ARIS) on sperm of the starfish <i>Asterias amurensis</i> . <i>Molecular Reproduction and Development</i> , 1995 , 41, 91-9	2.6	10
58	G-protein-mediated signal transduction for meiosis reinitiation in starfish oocyte. <i>Progress in Cell Cycle Research</i> , 1995 , 1, 255-63		7
57	Glycosphingolipids in cultured lens epithelial cells from dog and rhesus monkey. <i>Glycobiology</i> , 1994 , 4, 375-82	5.8	11
56	Synthesis of ganglioside M5 from sea urchin egg. <i>Tetrahedron Letters</i> , 1994 , 35, 2701-2704	2	19
55	Trypsin-like Hatching Enzyme of Mouse Blastocysts: Evidence for Its Participation in Hatching Process before Zona Shedding of Embryos ⁶ . <i>Development Growth and Differentiation</i> , 1994 , 36, 149-154 ³		9
54	Comparative study of glycosphingolipid composition in mammalian lenses. <i>Experimental Eye Research</i> , 1994 , 59, 653-63	3.7	19
53	Structural analysis of N-linked oligosaccharides of equine chorionic gonadotropin and lutropin beta-subunits. <i>Biochemistry</i> , 1994 , 33, 14039-48	3.2	20

52	Non-plasmalemmal localisation of the major ganglioside in sea urchin eggs. <i>Zygote</i> , 1993 , 1, 215-23	1.6	11
51	Specific binding of acrosome-reaction-inducing substance to the head of starfish spermatozoa. <i>Zygote</i> , 1993 , 1, 121-7	1.6	17
50	Effects of protease inhibitors on binding of sperm to the vitelline coat of ascidian eggs: implications for participation of a proteasome (multicatalytic proteinase complex). <i>The Journal of Experimental Zoology</i> , 1993 , 267, 86-91		26
49	Low-Na+Seawater Induces the Acrosome Reaction and Histone Degradation of Starfish Sperm in the Absence of Egg Jelly. <i>Development Growth and Differentiation</i> , 1993 , 35, 521-529	3	1
48	Pertussis toxin-sensitive G protein participating in starfish oocyte maturation induced by 1-methyladenine. <i>Invertebrate Reproduction and Development</i> , 1992 , 22, 1-9	0.7	8
47	A novel difucosylated neutral glycosphingolipid from the eggs of the sea urchin, <i>Hemicentrotus pulcherrimus</i> : I. Purification and structural determination of the glycolipid. <i>Journal of Biochemistry</i> , 1992 , 112, 281-5	3.1	8
46	A novel ceramide trihexoside from the eggs of the sea urchin, <i>Hemicentrotus pulcherrimus</i> . <i>Journal of Biochemistry</i> , 1992 , 111, 726-31	3.1	11
45	Properties of 1-methyladenine receptors in starfish oocyte membranes: involvement of pertussis toxin-sensitive GTP-binding protein in the receptor-mediated signal transduction. <i>Biochemical and Biophysical Research Communications</i> , 1992 , 186, 114-21	3.4	49
44	A novel saccharide structure, Xyl 1----3 Gal 1----(SO ₃ -)3,4 Fuc----, is present in acrosome reaction-inducing substance of the starfish, <i>Asterias amurensis</i> . <i>Biochemical and Biophysical Research Communications</i> , 1992 , 186, 405-10	3.4	13
43	Pretreatment effects of jelly components on the sperm acrosome reaction and histone degradation in the starfish, <i>Asterina pectinifera</i> . <i>Biochemical and Biophysical Research Communications</i> , 1992 , 187, 268-73	3.4	2
42	Egg jelly components responsible for histone degradation and acrosome reaction in the starfish, <i>Asterina pectinifera</i> . <i>Biochemical and Biophysical Research Communications</i> , 1992 , 187, 274-8	3.4	8
41	Participation of 650-kDa protease (20 S proteasome) in starfish oocyte maturation. <i>Developmental Biology</i> , 1992 , 150, 414-8	3.1	27
40	A novel difucosylated neutral glycosphingolipid from the eggs of the sea urchin, <i>Hemicentrotus pulcherrimus</i> : II. Structural determination by two-dimensional NMR. <i>Journal of Biochemistry</i> , 1992 , 112, 286-9	3.1	7
39	Treatment of Starfish Sperm with Egg Jelly Induces the Degradation of Histones. <i>Development Growth and Differentiation</i> , 1992 , 34, 99-106	3	9
38	Inhibition of Mouse Blastocyst Hatching by Subsite-Specific Trypsin Inhibitors, Peptidyl Argininals1. <i>Development Growth and Differentiation</i> , 1992 , 34, 357-362	3	2
37	The primary structure of the alpha subunit of a starfish guanosine-nucleotide-binding regulatory protein involved in 1-methyladenine-induced oocyte maturation. <i>FEBS Journal</i> , 1992 , 207, 833-8		41
36	Purification and characterization of a vitelline coat lysin from <i>Ciona intestinalis</i> spermatozoa. <i>Molecular Reproduction and Development</i> , 1992 , 32, 383-8	2.6	15
35	Purification and characterization of a GTP-binding protein serving as pertussis toxin substrate in starfish oocytes. <i>Archives of Biochemistry and Biophysics</i> , 1991 , 290, 411-7	4.1	28

34	Gangliosides from the eggs of the sea urchin, <i>Anthocidaris crassispina</i> . <i>Journal of Biochemistry</i> , 1990 , 108, 185-92	3.1	53
33	Glucosylceramide having a novel tri-unsaturated long-chain base from the spermatozoa of the starfish, <i>Asterias amurensis</i> . <i>Journal of Biochemistry</i> , 1990 , 107, 578-86	3.1	39
32	Immunocytochemical study of the distribution of a ganglioside in sea urchin eggs. <i>Journal of Biochemistry</i> , 1990 , 108, 193-9	3.1	15
31	Chymotrypsin-like enzymes are involved in sperm penetration through the vitelline coat of <i>Ciona intestinalis</i> egg. <i>Molecular Reproduction and Development</i> , 1990 , 26, 319-23	2.6	23
30	Trypsin-like hatching protease from mouse embryos: evidence for the presence in culture medium and its enzymatic properties. <i>The Journal of Experimental Zoology</i> , 1990 , 254, 83-7		67
29	Ceramide dihexosides from the spermatozoa of the starfish, <i>Asterias amurensis</i> , consist of gentiobiosyl- cellobiosyl-, and lactosylceramide. <i>Journal of Biochemistry</i> , 1990 , 108, 531-6	3.1	15
28	Three Phases of Cortical Maturation during Meiosis Reinitiation in Starfish Oocytes. <i>Development Growth and Differentiation</i> , 1989 , 31, 447-451	3	16
27	Activation of Starfish Oocytes Modifies their Hormone Dependent Period for 1-Methyladenine in Meiosis Reinitiation. <i>Development Growth and Differentiation</i> , 1989 , 31, 453-458	3	4
26	Pertussis toxin inhibits 1-methyladenine-induced maturation in starfish oocytes. <i>Developmental Biology</i> , 1989 , 133, 605-8	3.1	69
25	Inhibition of starfish oocyte maturation by leupeptin analogs, potent trypsin inhibitors. <i>Developmental Biology</i> , 1989 , 133, 609-12	3.1	23
24	Physiological inducers of the acrosome reaction. <i>Cell Differentiation and Development</i> , 1988 , 25 Suppl, 19-24		16
23	Melibiosylceramide as the sole ceramide dihexoside from the eggs of the sea urchin, <i>Anthocidaris crassispina</i> . <i>Journal of Biochemistry</i> , 1988 , 104, 755-60	3.1	15
22	Structure of acrosome reaction-inducing steroidal saponins from the egg jelly of the starfish, <i>Asterias amurensis</i> . <i>Chemical and Pharmaceutical Bulletin</i> , 1987 , 35, 1829-1832	1.9	13
21	Structures of the sugar chains of a major glycoprotein present in the egg jelly coat of a starfish, <i>Asterias amurensis</i> . <i>Archives of Biochemistry and Biophysics</i> , 1987 , 252, 105-12	4.1	24
20	Purification of Co-ARIS, a Cofactor for Acrosome Reaction-Inducing Substance, from the Egg Jelly of Starfish. <i>Development Growth and Differentiation</i> , 1987 , 29, 161-169	3	18
19	Correlation Between the Molecular Structure and the Biological Activity of Co-ARIS, a Cofactor for Acrosome Reaction-Inducing Substance. <i>Development Growth and Differentiation</i> , 1987 , 29, 171-176	3	22
18	Induction of the Acrosome Reaction in Starfish. <i>Development Growth and Differentiation</i> , 1986 , 28, 339-348		40
17	Acrosome Reaction-Inducing Substance Purified from the Egg Jelly Inhibits the Jelly-Induced Acrosome Reaction in Starfish: An Apparent Contradiction. <i>Development Growth and Differentiation</i> , 1986 , 28, 349-357	3	22

16	Intracellular pH Changes of Starfish Sperm Upon the Acrosome Reaction. <i>Development Growth and Differentiation</i> , 1986 , 28, 359-368	3	25
15	Maitotoxin, A Presumed Calcium Channel Activator, Induces the Acrosome Reaction in Mussel Spermatozoa. <i>Development Growth and Differentiation</i> , 1986 , 28, 443-448	3	6
14	Mass Isolation of Germinal Vesicles from Starfish Oocytes*. <i>Development Growth and Differentiation</i> , 1985 , 27, 277-282	3	4
13	Anion Channel Blockers Inhibit the Acrosome Reaction of Echinoderm Sperm. <i>Development Growth and Differentiation</i> , 1985 , 27, 461-468	3	7
12	Lysins 1985 , 431-462		35
11	Evidence for acrosin-like enzyme in sperm extract and its involvement in fertilization of the ascidian, halocynthia roretzi. <i>Gamete Research</i> , 1982 , 5, 291-301		65
10	Participation of sperm proteinases in fertilization of the solitary ascidian, Halocynthia roretzi. <i>Cell Differentiation</i> , 1982 , 11, 261-262		1
9	Evidence for participation of sperm proteinases in fertilization of the solitary ascidian, Halocynthia roretzi: effects of protease inhibitors. <i>Developmental Biology</i> , 1981 , 86, 117-21	3.1	88
8	Biochemical Studies on the Acrosome Reaction of the Starfish, Asterias Amurensis I. Factors Participating in the Acrosome Reaction. <i>Development Growth and Differentiation</i> , 1981 , 23, 73-80	3	41
7	Biochemical Studies on the Acrosome Reaction of the Starfish, Asterias Amurensis II. Purification and Characterization of Acrosome Reaction-Inducing Substance. <i>Development Growth and Differentiation</i> , 1981 , 23, 81-88	3	36
6	Arylsulfatase of sea urchin sperm. 2. Arylsulfatase as a lysin of sea urchins. <i>Developmental Biology</i> , 1980 , 74, 343-50	3.1	32
5	Characterization and partial purification of arylsulfatase from the seminal plasma of the sea urchin, Strongylocentrotus intermedius. <i>Archives of Biochemistry and Biophysics</i> , 1980 , 201, 216-23	4.1	16
4	Purification and characterization of hatching enzyme of Strongylocentrotus intermedius. <i>FEBS Journal</i> , 1979 , 100, 257-65		29
3	Effects of hydrolase inhibitors on fertilization of sea urchins: I. Protease inhibitors. <i>Gamete Research</i> , 1979 , 2, 107-119		32
2	Arylsulfatase of sea urchin sperm--distribution of arylsulfatase in the gonads and gametes of echinoderms. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1979 , 64, 293-6		1
1	Biochemical studies of the hatching process in sea urchin embryos. I. Effects of protease inhibitors. <i>The Journal of Experimental Zoology</i> , 1979 , 209, 129-134		11