

Motonori Hoshi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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.	3.3	15
2	Existence of Two Sexual Races in the Planarian Species Switching between Asexual and Sexual Reproduction. <i>Zoological Science</i> , 2012, 29, 265.	0.7	12
3	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, 595-598.	2.1	33
4	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, 757-766.	2.0	7
5	Effects of 17 β -Estradiol and Bisphenol A on the Formation of Reproductive Organs in Planarians. <i>Biological Bulletin</i> , 2011, 220, 47-56.	1.8	10
6	Novel conserved structural domains of acrosome reaction-inducing substance are widespread in invertebrates. <i>Molecular Reproduction and Development</i> , 2011, 78, 57-66.	2.0	8
7	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.	2.0	19
8	Acrosome reaction-related steroidal saponin, Co-ARIS, from the starfish induces structural changes in microdomains. <i>Developmental Biology</i> , 2010, 347, 147-153.	2.0	18
9	Production of asexual and sexual offspring in the triploid sexual planarian <i>Dugesia ryukyuensis</i> . <i>Integrative Zoology</i> , 2009, 4, 265-271.	2.6	9
10	Production of diploid and triploid offspring by inbreeding of the triploid planarian <i>Dugesia ryukyuensis</i> . <i>Chromosoma</i> , 2008, 117, 289-296.	2.2	8
11	Neoblast-enriched fraction rescues eye formation in eye-defective planarian <i>Dugesia ryukyuensis</i> . <i>Development Growth and Differentiation</i> , 2008, 50, 689-696.	1.5	9
12	Egg and sperm recognition systems during fertilization. <i>Development Growth and Differentiation</i> , 2008, 50, S221-38.	1.5	66
13	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, 1130-1138.	0.7	2
14	Conserved sequences of sperm-activating peptide and its receptor throughout evolution, despite speciation in the sea star <i>Asterias amurens</i> and closely related species. <i>Zygote</i> , 2008, 16, 229-237.	1.1	9
15	Regulation of the starfish sperm acrosome reaction by cGMP, pH, cAMP and Ca ²⁺ . <i>International Journal of Developmental Biology</i> , 2008, 52, 523-526.	0.6	13
16	The <i>Dugesia ryukyuensis</i> Database as a Molecular Resource for Studying Switching of the Reproductive System. <i>Zoological Science</i> , 2007, 24, 31-37.	0.7	26
17	Cyclic AMP-dependent PKA phosphorylates starfish sperm proteins during acrosome reaction. <i>Open Life Sciences</i> , 2007, 2, 109-121.	1.4	0
18	Acrosome reaction is subfamily specific in sea star fertilization. <i>Developmental Biology</i> , 2006, 298, 597-604.	2.0	12

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19	Peptide-induced hyperactivation-like vigorous flagellar movement in starfish sperm. <i>Zygote</i> , 2006, 14, 23-32.	1.1	15
20	Na ⁺ /Ca ²⁺ exchanger contributes to asterosap-induced elevation of intracellular Ca ²⁺ concentration in starfish spermatozoa. <i>Zygote</i> , 2006, 14, 133-141.	1.1	9
21	Comparative study of eye defective worm <i>Planaria menashi</i> and regenerating wild-type in planarian, <i>Dugesia ryukyuensis</i> . <i>Pigment Cell & Melanoma Research</i> , 2005, 18, 86-91.	3.6	7
22	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.	1.1	11
23	Ca ²⁺ spikes in the flagellum control chemotactic behavior of sperm. <i>EMBO Journal</i> , 2005, 24, 2741-2752.	7.8	165
24	Guanylyl cyclase and cGMP-specific phosphodiesterase participate in the acrosome reaction of starfish sperm. <i>Zygote</i> , 2004, 12, 345-355.	1.1	5
25	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, 585-592.	0.9	27
26	A sperm-activating peptide controls a cGMP-signaling pathway in starfish sperm. <i>Developmental Biology</i> , 2003, 260, 314-324.	2.0	81
27	Switch from Asexual to Sexual Reproduction in the Planarian <i>Dugesia ryukyuensis</i> . <i>Integrative and Comparative Biology</i> , 2003, 43, 242-246.	2.0	27
28	Biochemical characterization of inner sugar chains of acrosome reaction-inducing substance in jelly coat of starfish eggs. <i>Glycobiology</i> , 2003, 13, 567-580.	2.5	15
29	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, 661-666.	0.7	41
30	Signification of the Sexualizing Substance Produced by the Sexualized Planarians. <i>Zoological Science</i> , 2002, 19, 667-672.	0.7	21
31	Characterization of the Sperm Receptor for Acrosome Reaction-Inducing Substance of the Starfish, <i>Asterias Amurensis</i> . <i>Zoological Science</i> , 2002, 19, 435-442.	0.7	11
32	Seasonal Changes in the Sexualization of the Planarian <i>Dugesia ryukyuensis</i> . <i>Zoological Science</i> , 2002, 19, 1267-1278.	0.7	17
33	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, 527-538.	0.7	23
34	Analysis of the Self-sterility in <i>Halocynthia roretzi</i> . , 2001, , 9-13.		0
35	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, 154-162.	2.0	43
36	Acrosome reaction in starfish: signal molecules in the jelly coat and their receptors. <i>Zygote</i> , 1999, 8, S26-S27.	1.1	1

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37	Species-specificity of the acrosome reaction in starfish. <i>Zygote</i> , 1999, 8, S62-S62.	1.1	2
38	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, 357-364.	1.5	16
39	Sequence analysis of cDNAs encoding precursors of starfish asterosaps. , 1999, 25, 130-136.		17
40	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.	0.7	45
41	Neutral and Acidic Glycosphingolipids in Glucocorticoid-induced Cataract in Chick Lens. <i>Experimental Eye Research</i> , 1999, 68, 229-236.	2.6	10
42	Induction of Germinal Vesicle Breakdown in a Cell-Free Preparation from Starfish Oocytes. <i>Developmental Biology</i> , 1999, 205, 217-223.	2.0	11
43	Activation of the Proteasomes of Sand Dollar Eggs at Fertilization Depends on the Intracellular pH Rise. <i>Developmental Biology</i> , 1999, 209, 52-59.	2.0	12
44	G-Protein $\beta\gamma$ 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, 200-209.	2.0	12
45	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> . , 1998, 33, 35-44.		6
46	Expression of Sialylated LewisxGangliosides in Cultured Lens Epithelial Cells from Rhesus Monkey. <i>Experimental Eye Research</i> , 1998, 66, 765-773.	2.6	9
47	Localization of Lewisx, sialyl-Lewisx and β -galactosyl epitopes on glycosphingolipids in lens tissues. <i>Glycobiology</i> , 1998, 8, 95-105.	2.5	14
48	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, 10372-10376.	3.4	51
49	Association of the major ganglioside in sea urchin eggs with yolk lipoproteins. <i>Glycobiology</i> , 1997, 7, 391-398.	2.5	7
50	Developmental changes in carbohydrate antigens in embryonic rat lens. <i>Glycobiology</i> , 1997, 7, 605-615.	2.5	9
51	Detection of In Vivo Proteasome Activity in a Starfish Oocyte Using Membrane-Impermeant Substrate. <i>Journal of Biochemistry</i> , 1997, 122, 286-293.	1.7	10
52	Identification and synthetic pathway of sialyl-Lewisx-containing neolacto-series gangliosides in lens tissues. 2. Enzymatic synthesis of sialyl-Lewisx gangliosides in monkey and rat lenses. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1996, 1315, 29-36.	3.8	1
53	G protein function in starfish oocyte maturation. <i>Invertebrate Reproduction and Development</i> , 1996, 30, 117-122.	0.8	5
54	Structure and function of asterosaps, sperm-activating peptides from the jelly coat of starfish eggs. <i>Zygote</i> , 1996, 4, 237-245.	1.1	84

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55	Introduction to the symposium on oocyte maturation and fertilization. <i>Invertebrate Reproduction and Development</i> , 1996, 30, 1-5.	0.8	4
56	Estimation by radiation inactivation of the minimum functional size of acrosome-reaction-including substance (ARIS) in the starfish, <i>Asterias amurensis</i> . <i>Zygote</i> , 1995, 3, 351-355.	1.1	5
57	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, 91-99.	2.0	11
58	Hemocytes Release Phenoloxidase upon Contact Reaction, an Allogeneic Interaction, in the Ascidian <i>Halocynthia roretzi</i> . <i>Cell Structure and Function</i> , 1995, 20, 81-87.	1.1	33
59	Cortical changes in starfish (<i>Asterina pectinifera</i>) oocytes during 1-methyladenine-induced maturation and fertilisation/activation. <i>Zygote</i> , 1995, 3, 225-239.	1.1	24
60	Localization of neutral and acidic glycosphingolipids in rat lens. <i>Glycobiology</i> , 1995, 5, 187-194.	2.5	13
61	Differential distribution of gangliosides in adult rat ovary during the oestrous cycle. <i>Glycobiology</i> , 1995, 5, 299-309.	2.5	21
62	A Periodic Network of G Protein β Subunit Coexisting with Cytokeratin Filament in Starfish Oocytes. <i>Developmental Biology</i> , 1995, 169, 415-420.	2.0	20
63	Identification and synthetic pathway of sialyl-Lewis ^x -containing neolacto-series gangliosides in lens tissues. I. Characterization of gangliosides in human senile cataractous lens. <i>Lipids and Lipid Metabolism</i> , 1995, 1256, 166-174.	2.6	7
64	Age-related changes in ganglioside composition in human lens. <i>Experimental Eye Research</i> , 1995, 60, 317-323.	2.6	14
65	Characterization of neutral glycosphingolipids in rat lens. <i>Experimental Eye Research</i> , 1995, 60, 193-198.	2.6	11
66	G-protein-mediated signal transduction for meiosis reinitiation in starfish oocyte. , 1995, 1, 255-263.		7
67	Glycosphingolipids in cultured lens epithelial cells from dog and rhesus monkey. <i>Glycobiology</i> , 1994, 4, 375-382.	2.5	13
68	Synthesis of ganglioside M5 from sea urchin egg. <i>Tetrahedron Letters</i> , 1994, 35, 2701-2704.	1.4	23
69	Trypsin-like Hatching Enzyme of Mouse Blastocysts: Evidence for Its Participation in Hatching Process before Zona Shedding of Embryos. (embryo/hatching enzyme/protease/trypsin/strypsin). <i>Development Growth and Differentiation</i> , 1994, 36, 149-154.	1.5	14
70	Comparative Study of Glycosphingolipid Composition in Mammalian Lenses. <i>Experimental Eye Research</i> , 1994, 59, 653-664.	2.6	20
71	Structural Analysis of N-Linked Oligosaccharides of Equine Chorionic Gonadotropin and Lutropin .beta.-Subunits. <i>Biochemistry</i> , 1994, 33, 14039-14048.	2.5	25
72	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.	1.4	29

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73	Low-Na+Seawater Induces the Acrosome Reaction and Histone Degradation of Starfish Sperm in the Absence of Egg Jelly. (starfish/sperm/histone degradation/acrosome reaction/low-Na+ seawater). Development Growth and Differentiation, 1993, 35, 521-529.	1.5	1
74	Non-plasmalemmal localisation of the major ganglioside in sea urchin eggs. Zygote, 1993, 1, 215-223.	1.1	12
75	Specific binding of acrosome-reaction-inducing substance to the head of starfish spermatozoa. Zygote, 1993, 1, 121-127.	1.1	17
76	Pertussis toxin-sensitive G protein participating in starfish oocyte maturation induced by 1-methyladenine. Invertebrate Reproduction and Development, 1992, 22, 1-9.	0.8	10
77	A Novel Difucosylated Neutral Glycosphingolipid from the Eggs of the Sea Urchin, Hemicentrotus pulcherrimus: I. Purification and Structural Determination of the Glycolipid1. Journal of Biochemistry, 1992, 112, 281-285.	1.7	9
78	A Novel Ceramide Trihexoside from the Eggs of the Sea Urchin, Hemicentrotus pulcherrimus1. Journal of Biochemistry, 1992, 111, 726-731.	1.7	11
79	Properties of 1-methyladenine receptors in starfish oocyte membranes: Involvement of pertussis toxin-sensitive GTP-binding protein in the receptor-mediated signal transduction. Biochemical and Biophysical Research Communications, 1992, 186, 114-121.	2.1	51
80	A novel saccharide structure, Xyl 1 α '3 Gal 1 α ' (SO $3\hat{a}$ ~)3, 4 Fuc \hat{a} '', is present in acrosome reaction-inducing substance of the starfish, Asterias amurensis. Biochemical and Biophysical Research Communications, 1992, 186, 405-410.	2.1	14
81	Pretreatment effects of jelly components on the sperm acrosome reaction and histone degradation in the starfish, Asterina pectinifera. Biochemical and Biophysical Research Communications, 1992, 187, 268-273.	2.1	2
82	Egg jelly components responsible for histone degradation and acrosome reaction in the starfish, Asterina pectinifera. Biochemical and Biophysical Research Communications, 1992, 187, 274-278.	2.1	10
83	Participation of 650-kDa protease (20 S proteasome) in starfish oocyte maturation. Developmental Biology, 1992, 150, 414-418.	2.0	28
84	A Novel Difucosylated Neutral Glycosphingolipid from the Eggs of the Sea Urchin, Hemicentrotus pulcherrimus: II. Structural Determination by Two-Dimensional NMR1. Journal of Biochemistry, 1992, 112, 286-289.	1.7	11
85	Treatment of Starfish Sperm with Egg Jelly Induces the Degradation of Histones. (sperm/egg) Tj ETQq1 1 0.784314 rgBT /Overlock 10 34, 99-106.	1.5	10
86	Inhibition of Mouse Blastocyst Hatching by Subsite-Specific Trypsin Inhibitors, Peptidyl Argininals1. Development Growth and Differentiation, 1992, 34, 357-362.	1.5	3
87	The primary structure of the alpha subunit of a starfish guanosine-nucleotide-binding regulatory protein involved in 1-methyladenine-induced oocyte maturation. FEBS Journal, 1992, 207, 833-838.	0.2	47
88	Purification and characterization of a vitelline coat lysin from Ciona intestinalis spermatozoa. Molecular Reproduction and Development, 1992, 32, 383-388.	2.0	17
89	Purification and characterization of a GTP-binding protein serving as pertussis toxin substrate in starfish oocytes. Archives of Biochemistry and Biophysics, 1991, 290, 411-417.	3.0	28
90	Gangliosides from the Eggs of the Sea Urchin, Anthocidaris crassispina1. Journal of Biochemistry, 1990, 108, 185-192.	1.7	61

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91	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, 578-586.	1.7	42
92	Immunocytochemical Study of the Distribution of a Ganglioside in Sea Urchin Eggs. <i>Journal of Biochemistry</i> , 1990, 108, 193-199.	1.7	16
93	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, 319-323.	2.0	26
94	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, 83-87.	1.4	79
95	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, 531-536.	1.7	15
96	Three Phases of Cortical Maturation during Meiosis Reinitiation in Starfish Oocytes. (starfish) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547</i> 447-451.	1.5	17
97	Activation of Starfish Oocytes Modifies their Hormone Dependent Period for 1-Methyladenine in Meiosis Reinitiation. (starfish oocyte/maturation/hormone dependent period/fertilization/A23187). <i>Development Growth and Differentiation</i> , 1989, 31, 453-458.	1.5	4
98	Pertussis toxin inhibits 1-methyladenine-induced maturation in starfish oocytes. <i>Developmental Biology</i> , 1989, 133, 605-608.	2.0	72
99	Inhibition of starfish oocyte maturation by leupeptin analogs, potent trypsin inhibitors. <i>Developmental Biology</i> , 1989, 133, 609-612.	2.0	26
100	Physiological inducers of the acrosome reaction. <i>Cell Differentiation and Development</i> , 1988, 25, 19-24.	0.4	17
101	Melibiosylceramide as the Sole Ceramide Dihexoside from the Eggs of the Sea Urchin, <i>Anthocidaris crassispina</i> . <i>Journal of Biochemistry</i> , 1988, 104, 755-760.	1.7	15
102	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.	1.3	18
103	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, 105-112.	3.0	28
104	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.	1.5	20
105	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.	1.5	27
106	Induction of the Acrosome Reaction in Starfish. (acrosome reaction/starfish sperm/egg) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,142 Td (je</i> 1.5 42	1.5	42
107	Acrosome Reaction-Inducing Substance Purified from the Egg Jelly Inhibits the Jelly-Induced Acrosome Reaction in Starfish: An Apparent Contradiction. (acrosome reaction/starfish sperm/egg) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50,9</i> 1.5 28	1.5	28
108	Intracellular pH Changes of Starfish Sperm Upon the Acrosome Reaction. (acrosome) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (reacti</i> Differentiation, 1986, 28, 359-368.	1.5	28

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109	Maitotoxin, A Presumed Calcium Channel Activator, Induces the Acrosome Reaction in Mussel Spermatozoa. (maitotoxin/acrosome reaction/calcium channel activator/calcium channel) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50		
110	Mass Isolation of Germinal Vesicles from Starfish Oocytes*. (germinal) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (vesicle/nucleus/oc 277-282.	1.5	4
111	Anion Channel Blockers Inhibit the Acrosome Reaction of Echinoderm Sperm. (anion channel) Tj ETQq1 1 0.784314 rgBT /Overlock 10 1985, 27, 461-468.	1.5	7
112	Lysins. , 1985, , 431-462.		35
113	Evidence for acrosin-like enzyme in sperm extract and its involvement in fertilization of the ascidian, Halocynthia roretzi. Gamete Research, 1982, 5, 291-301.	1.7	70
114	Participation of sperm proteinases in fertilization of the solitary ascidian, Halocynthia roretzi. Cell Differentiation, 1982, 11, 261-262.	0.4	1
115	Evidence for participation of sperm proteinases in fertilization of the solitary ascidian, Halocynthia roretzi: Effects of protease inhibitors. Developmental Biology, 1981, 86, 117-121.	2.0	94
116	Biochemical Studies on the Acrosome Reaction of the Starfish, Asterias Amurensis I. Factors Participating in the Acrosome Reaction. Development Growth and Differentiation, 1981, 23, 73-80.	1.5	48
117	Biochemical Studies on the Acrosome Reaction of the Starfish, Asterias Amurensis II. Purification and Characterization of Acrosome Reaction-Inducing Substance. Development Growth and Differentiation, 1981, 23, 81-88.	1.5	41
118	Arylsulfatase of sea urchin sperm. Developmental Biology, 1980, 74, 343-350.	2.0	39
119	Characterization and partial purification of arylsulfatase from the seminal plasma of the sea urchin, Strongylocentrotus intermedius. Archives of Biochemistry and Biophysics, 1980, 201, 216-223.	3.0	19
120	Biochemical studies of the hatching process in sea urchin embryos. I. Effects of protease inhibitors. The Journal of Experimental Zoology, 1979, 209, 129-134.	1.4	11
121	Purification and Characterization of Hatching Enzyme of Strongylocentrotus intermedius. FEBS Journal, 1979, 100, 257-265.	0.2	31
122	Effects of hydrolase inhibitors on fertilization of sea urchins: I. Protease inhibitors. Gamete Research, 1979, 2, 107-119.	1.7	34
123	Arylsulfatase of sea urchin sperm Distribution of arylsulfatase in the gonads and gametes of echinoderms. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1979, 64, 293-296.	0.2	1