

Victor D Vacquier

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.

146
papers

7,704
citations

43
h-index

83
g-index

147
ext. papers

8,211
ext. citations

7.7
avg, IF

5.87
L-index

#	Paper	IF	Citations
146	New techniques for creating parthenogenetic larvae of the sea urchin <i>Lytechinus pictus</i> for gene expression studies. <i>Developmental Dynamics</i> , 2021 , 250, 1828-1833	2.9	
145	My research career on (mainly) sea urchins. <i>Methods in Cell Biology</i> , 2019 , 151, 21-26	1.8	1
144	Sea urchin embryonic cilia. <i>Methods in Cell Biology</i> , 2019 , 150, 235-250	1.8	2
143	Soluble adenylyl cyclase of sea urchin spermatozoa. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 2621-8	6.9	19
142	The quest for the sea urchin egg receptor for sperm. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 425, 583-7	3.4	38
141	Laboratory on sea urchin fertilization. <i>Molecular Reproduction and Development</i> , 2011 , 78, 553-64	2.6	21
140	The molecular basis of sex: linking yeast to human. <i>Molecular Biology and Evolution</i> , 2011 , 28, 1963-6	8.3	38
139	Selection in the rapid evolution of gamete recognition proteins in marine invertebrates. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011 , 3, a002931	10.2	79
138	A single residue in a novel ADP-ribosyl cyclase controls production of the calcium-mobilizing messengers cyclic ADP-ribose and nicotinic acid adenine dinucleotide phosphate. <i>Journal of Biological Chemistry</i> , 2010 , 285, 19900-9	5.4	10
137	ZP domain proteins in the abalone egg coat include a paralog of VERL under positive selection that binds lysin and 18-kDa sperm proteins. <i>Molecular Biology and Evolution</i> , 2010 , 27, 193-203	8.3	48
136	Molecular characterization of a novel cell surface ADP-ribosyl cyclase from the sea urchin. <i>Cellular Signalling</i> , 2008 , 20, 2347-55	4.9	14
135	Bindin genes of the Pacific oyster <i>Crassostrea gigas</i> . <i>Gene</i> , 2008 , 423, 215-20	3.8	32
134	Oyster sperm bindin is a combinatorial fucose lectin with remarkable intra-species diversity. <i>International Journal of Developmental Biology</i> , 2008 , 52, 759-68	1.9	37
133	Adenylate kinase in sea urchin embryonic cilia. <i>Cytoskeleton</i> , 2007 , 64, 310-9		7
132	The 10 sea urchin receptor for egg jelly proteins (SpREJ) are members of the polycystic kidney disease-1 (PKD1) family. <i>BMC Genomics</i> , 2007 , 8, 235	4.5	27
131	A sea urchin sperm flagellar adenylate kinase with triplicated catalytic domains. <i>Journal of Biological Chemistry</i> , 2007 , 282, 2947-55	5.4	16
130	Recombinant sea urchin flagellar adenylate kinase. <i>Journal of Biochemistry</i> , 2007 , 142, 501-6	3.1	3

129	Diversity of olfactomedin proteins in the sea urchin. <i>Genomics</i> , 2007 , 89, 721-30	4.3	11
128	Sp-tetraKCNG: A novel cyclic nucleotide gated K(+) channel. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 354, 668-75	3.4	48
127	Particulate and soluble adenylyl cyclases participate in the sperm acrosome reaction. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 358, 1128-35	3.4	43
126	Sequence, annotation and developmental expression of the sea urchin Ca(2+) -ATPase family. <i>Gene</i> , 2007 , 397, 67-75	3.8	12
125	Structural features and functional domains of amassin-1, a cell-binding olfactomedin protein. <i>Biochemistry and Cell Biology</i> , 2007 , 85, 552-62	3.6	10
124	Molecular characterization of a novel intracellular ADP-ribosyl cyclase. <i>PLoS ONE</i> , 2007 , 2, e797	3.7	26
123	Plasma membrane calcium ATPase is concentrated in the head of sea urchin spermatozoa. <i>Journal of Cellular Physiology</i> , 2006 , 207, 413-9	7	21
122	Proteins associated with soluble adenylyl cyclase in sea urchin sperm flagella. <i>Cytoskeleton</i> , 2006 , 63, 582-90		39
121	Cyclic GMP-specific phosphodiesterase-5 regulates motility of sea urchin spermatozoa. <i>Molecular Biology of the Cell</i> , 2006 , 17, 114-21	3.5	33
120	Flagelliasialin: a novel sulfated alpha2,9-linked polysialic acid glycoprotein of sea urchin sperm flagella. <i>Glycobiology</i> , 2006 , 16, 1229-41	5.8	42
119	The genome of the sea urchin <i>Strongylocentrotus purpuratus</i> . <i>Science</i> , 2006 , 314, 941-52	33.3	886
118	Evidence for a secretory pathway Ca ²⁺ -ATPase in sea urchin spermatozoa. <i>FEBS Letters</i> , 2006 , 580, 3900-4	3.4	21
117	Cloning of a sea urchin sarco/endoplasmic reticulum Ca ²⁺ ATPase. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 339, 443-9	3.4	14
116	A sodium bicarbonate transporter from sea urchin spermatozoa. <i>Gene</i> , 2006 , 375, 37-43	3.8	8
115	A functional genomic and proteomic perspective of sea urchin calcium signaling and egg activation. <i>Developmental Biology</i> , 2006 , 300, 416-33	3.1	51
114	Expression, purification, crystallization and preliminary X-ray analysis of the olfactomedin domain from the sea urchin cell-adhesion protein amassin. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006 , 62, 16-9		4
113	A new hyperpolarization-activated, cyclic nucleotide-gated channel from sea urchin sperm flagella. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 334, 96-101	3.4	33
112	A soluble adenylyl cyclase from sea urchin spermatozoa. <i>Gene</i> , 2005 , 353, 231-8	3.8	38

111	Tandem mass spectrometry identifies proteins phosphorylated by cyclic AMP-dependent protein kinase when sea urchin sperm undergo the acrosome reaction. <i>Developmental Biology</i> , 2005 , 285, 116-25 ^{3.1}	31	31
110	Positive selection in the carbohydrate recognition domains of sea urchin sperm receptor for egg jelly (suREJ) proteins. <i>Molecular Biology and Evolution</i> , 2005 , 22, 533-41	8.3	44
109	Isolation of sea urchin sperm plasma membranes. <i>Methods in Molecular Biology</i> , 2004 , 253, 141-50	1.4	4
108	Isolation of organelles and components from sea urchin eggs and embryos. <i>Methods in Cell Biology</i> , 2004 , 74, 491-522	1.8	11
107	Sea urchin gametes in the teaching laboratory: good experiments and good experiences. <i>Methods in Cell Biology</i> , 2004 , 74, 797-823	1.8	8
106	Ligands and receptors mediating signal transduction in sea urchin spermatozoa. <i>Reproduction</i> , 2004 , 127, 141-9	3.8	74
105	A third sea urchin sperm receptor for egg jelly module protein, suREJ2, concentrates in the plasma membrane over the sperm mitochondrion. <i>Development Growth and Differentiation</i> , 2004 , 46, 53-60	3	16
104	Polycystin-2 associates with the polycystin-1 homolog, suREJ3, and localizes to the acrosomal region of sea urchin spermatozoa. <i>Molecular Reproduction and Development</i> , 2004 , 67, 472-7	2.6	57
103	Sea urchin spermatozoa. <i>Methods in Cell Biology</i> , 2004 , 74, 523-44	1.8	21
102	A perforin-like protein from a marine mollusk. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 316, 468-75	3.4	44
101	Ion channel activity of membrane vesicles released from sea urchin sperm during the acrosome reaction. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 321, 88-93	3.4	5
100	Positive selection in the egg receptor for abalone sperm lysin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 4639-43	11.5	126
99	Store-operated calcium channels trigger exocytosis of the sea urchin sperm acrosomal vesicle. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 304, 285-92	3.4	38
98	Amassin, an olfactomedin protein, mediates the massive intercellular adhesion of sea urchin coelomocytes. <i>Journal of Cell Biology</i> , 2003 , 160, 597-604	7.3	65
97	An ATP-binding cassette transporter is a major glycoprotein of sea urchin sperm membranes. <i>Journal of Biological Chemistry</i> , 2002 , 277, 40729-34	5.4	14
96	Exploring the phylogenetic utility of ITS sequences for animals: a test case for abalone (<i>Haliotis</i>). <i>Journal of Molecular Evolution</i> , 2002 , 54, 246-57	3.1	147
95	The rapid evolution of reproductive proteins. <i>Nature Reviews Genetics</i> , 2002 , 3, 137-44	30.1	1012
94	suREJ3, a polycystin-1 protein, is cleaved at the GPS domain and localizes to the acrosomal region of sea urchin sperm. <i>Journal of Biological Chemistry</i> , 2002 , 277, 943-8	5.4	75

93	A flagellar K(+)-dependent Na(+)/Ca(2+) exchanger keeps Ca(2+) low in sea urchin spermatozoa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 6743-8	11.5	81
92	Egg sialoglycans increase intracellular pH and potentiate the acrosome reaction of sea urchin sperm. <i>Journal of Biological Chemistry</i> , 2002 , 277, 8041-7	5.4	41
91	Reproductive Protein Evolution. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2002 , 33, 161-179		155
90	High molecular mass egg fucose sulfate polymer is required for opening both Ca ²⁺ channels involved in triggering the sea urchin sperm acrosome reaction. <i>Journal of Biological Chemistry</i> , 2002 , 277, 1182-9	5.4	38
89	Egg fucose sulfate polymer, sialoglycan, and speract all trigger the sea urchin sperm acrosome reaction. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 296, 833-9	3.4	28
88	Structural requirements for species-specific induction of the sperm acrosome reaction by sea urchin egg sulfated fucan. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 298, 403-7	3.4	35
87	Full-length sequence of VERL, the egg vitelline envelope receptor for abalone sperm lysin. <i>Gene</i> , 2002 , 288, 111-7	3.8	61
86	Polymorphism in abalone fertilization proteins is consistent with the neutral evolution of the egg β receptor for lysin (VERL) and positive darwinian selection of sperm lysin. <i>Molecular Biology and Evolution</i> , 2001 , 18, 376-83	8.3	80
85	Glycobiology of sperm-egg interactions in deuterostomes. <i>Glycobiology</i> , 2001 , 11, 37R-43R	5.8	81
84	Abalone lysin: the dissolving and evolving sperm protein. <i>BioEssays</i> , 2001 , 23, 95-103	4.1	44
83	The crystal structure of a fusagenic sperm protein reveals extreme surface properties. <i>Biochemistry</i> , 2001 , 40, 5407-13	3.2	19
82	Abalone lysin: the dissolving and evolving sperm protein 2001 , 23, 95		18
81	1.35 and 2.07 Å resolution structures of the red abalone sperm lysin monomer and dimer reveal features involved in receptor binding. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000 , 56, 34-41		16
80	Co-localization of receptor and transducer proteins in the glycosphingolipid-enriched, low density, detergent-insoluble membrane fraction of sea urchin sperm. <i>Glycoconjugate Journal</i> , 2000 , 17, 205-14	3	41
79	Maximum-likelihood analysis of molecular adaptation in abalone sperm lysin reveals variable selective pressures among lineages and sites. <i>Molecular Biology and Evolution</i> , 2000 , 17, 1446-55	8.3	203
78	Positive selection and propeptide repeats promote rapid interspecific divergence of a gastropod sperm protein. <i>Molecular Biology and Evolution</i> , 2000 , 17, 458-66	8.3	57
77	The high resolution crystal structure of green abalone sperm lysin: implications for species-specific binding of the egg receptor. <i>Journal of Molecular Biology</i> , 2000 , 296, 1225-34	6.5	22
76	suREJ proteins: new signalling molecules in sea urchin spermatozoa. <i>Zygote</i> , 1999 , 8, S28-S30	1.6	13

75	Lipid raft on gametic cells as a functional domain for sperm-egg interaction coupled with signal transduction. <i>Zygote</i> , 1999 , 8, S63-S63	1.6	3
74	Acrosomal Proteins of Abalone Spermatozoa. <i>Advances in Developmental Biochemistry</i> , 1999 , 49-81		9
73	Interspecies chimeric sperm lysins identify regions mediating species-specific recognition of the abalone egg vitelline envelope. <i>Developmental Biology</i> , 1999 , 214, 151-9	3.1	47
72	Concerted evolution in an egg receptor for a rapidly evolving abalone sperm protein. <i>Science</i> , 1998 , 281, 710-2	33.3	151
71	Increased association of synaptosome-associated protein of 25 kDa with syntaxin and vesicle-associated membrane protein following acrosomal exocytosis of sea urchin sperm. <i>Journal of Biological Chemistry</i> , 1998 , 273, 24355-9	5.4	42
70	The fucose sulfate polymer of egg jelly binds to sperm REJ and is the inducer of the sea urchin sperm acrosome reaction. <i>Developmental Biology</i> , 1997 , 192, 125-35	3.1	138
69	Positive Darwinian selection on two homologous fertilization proteins: what is the selective pressure driving their divergence?. <i>Journal of Molecular Evolution</i> , 1997 , 44 Suppl 1, S15-22	3.1	93
68	What have we learned about sea urchin sperm bindin?. <i>Development Growth and Differentiation</i> , 1995 , 37, 1-10	3	98
67	Liposome fusion induced by a Mr 18,000 protein localized to the acrosomal region of acrosome-reacted abalone spermatozoa. <i>Biochemistry</i> , 1995 , 34, 14202-8	3.2	36
66	Structural features of the abalone egg extracellular matrix and its role in gamete interaction during fertilization. <i>Molecular Reproduction and Development</i> , 1995 , 41, 493-502	2.6	24
65	A unique expression pattern for a sperm membrane protein during sea urchin spermatogenesis. <i>Zygote</i> , 1994 , 2, 159-65	1.6	1
64	N-Linked Oligosaccharides of Sea Urchin Egg Jelly Induce the Sperm Acrosome Reaction. <i>Development Growth and Differentiation</i> , 1994 , 36, 551-556	3	11
63	The species-specificity and structure of abalone sperm lysin. <i>Seminars in Developmental Biology</i> , 1994 , 5, 209-215		20
62	The isolation of acrosome-reaction-inducing glycoproteins from sea urchin egg jelly. <i>Developmental Biology</i> , 1994 , 162, 304-12	3.1	46
61	Abalone sperm lysin: unusual mode of evolution of a gamete recognition protein. <i>Zygote</i> , 1993 , 1, 181-96.6		72
60	Anion channels in the sea urchin sperm plasma membrane. <i>Molecular Reproduction and Development</i> , 1993 , 36, 174-82	2.6	26
59	Reusable cDNA libraries coupled to magnetic beads. <i>Analytical Biochemistry</i> , 1992 , 206, 206-7	3.1	16
58	In vitro phosphorylation of sea urchin sperm adenylate cyclase by cyclic adenosine monophosphate-dependent protein kinase. <i>Molecular Reproduction and Development</i> , 1991 , 28, 150-7	2.6	10

57	The amino terminal sequence of sea urchin sperm histone H1 and its phosphorylation by egg cytosol. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1989 , 92, 381-4		4
56	Egg jelly induces the phosphorylation of histone H3 in spermatozoa of the sea urchin <i>Arbacia punctulata</i> . <i>Developmental Biology</i> , 1989 , 133, 111-8	3.1	11
55	Phorbol Myristate Acetate Induces the Phosphorylation of Plasma Membrane-Associated Proteins in Sea Urchin Eggs. <i>Development Growth and Differentiation</i> , 1988 , 30, 49-59	3	8
54	Monoclonal antibodies induce the translocation, patching, and shedding of surface antigens of sea urchin spermatozoa. <i>Experimental Cell Research</i> , 1988 , 175, 37-51	4.2	16
53	Extraction of phosphorylated sperm specific histone H1 from sea urchin eggs: analysis of phosphopeptide maps. <i>Biochemical and Biophysical Research Communications</i> , 1988 , 151, 1200-4	3.4	7
52	Changing localizations of site-specific surface antigens during sea urchin spermiogenesis. <i>Experimental Cell Research</i> , 1987 , 173, 606-16	4.2	10
51	Dispersal of sperm surface antigens in the plasma membranes of polyspermically fertilized sea urchin eggs. <i>Experimental Cell Research</i> , 1987 , 173, 628-32	4.2	10
50	Handling, labeling, and fractionating sea urchin spermatozoa. <i>Methods in Cell Biology</i> , 1986 , 27, 15-40	1.8	34
49	Stoichiometry of phosphate loss from sea urchin sperm guanylate cyclase during fertilization. <i>Biochemical and Biophysical Research Communications</i> , 1986 , 137, 1148-52	3.4	26
48	Phosphorylation of sperm histone H1 is induced by the egg jelly layer in the sea urchin <i>Strongylocentrotus purpuratus</i> . <i>Developmental Biology</i> , 1986 , 116, 203-12	3.1	25
47	Fusion of liposomes induced by a cationic protein from the acrosome granule of abalone spermatozoa. <i>Biochemistry</i> , 1986 , 25, 543-9	3.2	47
46	Activation of sea urchin spermatozoa during fertilization. <i>Trends in Biochemical Sciences</i> , 1986 , 11, 77-81	10.3	35
45	Activation of sea urchin gametes. <i>Annual Review of Cell Biology</i> , 1986 , 2, 1-26		93
44	Dephosphorylation of sea urchin sperm guanylate cyclase during fertilization. <i>Advances in Experimental Medicine and Biology</i> , 1986 , 207, 359-82	3.6	11
43	Monoclonal antibody to a membrane glycoprotein inhibits the acrosome reaction and associated Ca ²⁺ and H ⁺ fluxes of sea urchin sperm. <i>Cell</i> , 1985 , 40, 697-703	56.2	97
42	Inhibition of sea urchin sperm acrosome reaction by antibodies directed against two sperm membrane proteins. Characterization and mechanism of action. <i>Experimental Cell Research</i> , 1984 , 155, 467-76	4.2	24
41	Rapid immunoassays for the acrosome reaction of sea urchin sperm utilizing antibody to bindin. <i>Experimental Cell Research</i> , 1984 , 153, 281-6	4.2	7
40	Isolation and characterization of a plasma membrane fraction from sea urchin sperm exhibiting species specific recognition of the egg surface. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1984 , 778, 25-37	3.8	33

39	Purification of sea urchin sperm bindin by DEAE-cellulose chromatography. <i>Analytical Biochemistry</i> , 1983 , 129, 497-501	3.1	17
38	The increased phosphorylation of ribosomal protein S6 in <i>Arbacia punctulata</i> is not a universal event in the activation of sea urchin eggs. <i>Developmental Biology</i> , 1983 , 95, 360-71	3.1	32
37	Calcium-mediated release of glucanase activity from cortical granules of sea urchin eggs. <i>Developmental Biology</i> , 1983 , 100, 267-74	3.1	39
36	Methylxanthines stimulate calcium transport and inhibit cyclic nucleotide phosphodiesterases in abalone sperm. <i>Developmental Biology</i> , 1983 , 99, 115-20	3.1	14
35	Regulation of abalone sperm cyclic AMP concentrations and the acrosome reaction by calcium and methylxanthines. <i>Developmental Biology</i> , 1983 , 98, 28-36	3.1	15
34	Monoclonal antibodies to the sea urchin egg vitelline layer inhibit fertilization by blocking sperm adhesion. <i>Experimental Cell Research</i> , 1983 , 147, 75-84	4.2	15
33	Transport of methionine in sea-urchin sperm by a neutral amino-acid carrier. <i>FEBS Journal</i> , 1983 , 133, 341-7		4
32	A protein from abalone sperm dissolves the egg vitelline layer by a nonenzymatic mechanism. <i>Developmental Biology</i> , 1982 , 92, 227-39	3.1	121
31	The apical lamina of the sea urchin embryo: major glycoproteins associated with the hyaline layer. <i>Developmental Biology</i> , 1982 , 89, 168-78	3.1	64
30	Sperm-egg binding events during sea urchin fertilization. <i>Annals of the New York Academy of Sciences</i> , 1982 , 383, 405-25	6.5	8
29	Dynamic changes of the egg cortex. <i>Developmental Biology</i> , 1981 , 84, 1-26	3.1	179
28	Gamete Interaction in the Sea Urchin A Model for Understanding the Molecular Details of Animal Fertilization 1981 , 199-232		4
27	Sperm-specific surface antigenicity common to seven animal phyla. <i>Nature</i> , 1980 , 288, 397-9	50.4	13
26	Antibody to a sperm surface glycoprotein inhibits the egg jelly-induced acrosome reaction of sea urchin sperm. <i>Developmental Biology</i> , 1980 , 79, 325-33	3.1	37
25	Radioiodination and characterization of the plasma membrane of sea urchin sperm. <i>Developmental Biology</i> , 1980 , 76, 15-25	3.1	26
24	Morphology of abalone spermatozoa before and after the acrosome reaction. <i>Journal of Ultrastructure Research</i> , 1980 , 72, 39-46		53
23	The cytolytic isolation of the cortex of the sea urchin egg. <i>Developmental Biology</i> , 1980 , 77, 178-90	3.1	37
22	The Adhesion of Sperm to Sea Urchin Eggs 1980 , 151-168		4

21	THE EFFECT OF SOLUBLE EGG JELLY ON THE FERTILIZABILITY OF ACID-DEJELLIED SEA URCHIN EGGS*. <i>Development Growth and Differentiation</i> , 1979 , 21, 47-60	3	23
20	THE FERTILIZING CAPACITY OF SEA URCHIN SPERM RAPIDLY DECREASES AFTER INDUCTION OF THE ACROSOME REACTION*. <i>Development Growth and Differentiation</i> , 1979 , 21, 61-69	3	41
19	Immunoperoxidase localization of bindin during the adhesion of sperm to sea urchin eggs. <i>Current Topics in Developmental Biology</i> , 1979 , 13 Pt 1, 31-44	5.3	77
18	The Interactions of Sea Urchin Gametes During Fertilization. <i>American Zoologist</i> , 1979 , 19, 839-849		15
17	NH4Cl and other weak bases in the activation of sea urchin eggs (reply). <i>Nature</i> , 1978 , 274, 190-190	50.4	
16	Isolation of sperm bindin from the oyster (<i>Crassostrea gigas</i>). <i>Gamete Research</i> , 1978 , 1, 89-99		37
15	MACROMOLECULES MEDIATING SPERM-EGG RECOGNITION AND ADHESION DURING SEA URCHIN FERTILIZATION 1978 , 379-389		1
14	Characterization and comparison of "bindin" isolated from sperm of two species of sea urchins. <i>Biochemical and Biophysical Research Communications</i> , 1977 , 79, 159-65	3.4	25
13	Species specific agglutination of eggs by bindin isolated from sea urchin sperm. <i>Nature</i> , 1977 , 267, 836-850.4	50.4	122
12	The rise and fall of intracellular pH of sea urchin eggs after fertilisation. <i>Nature</i> , 1977 , 269, 590-2	50.4	57
11	Isolated cortical granules: a model system for studying membrane fusion and calcium-mediated exocytosis. <i>Journal of Supramolecular Structure</i> , 1976 , 5, 27-35		30
10	The isolation of intact cortical granules from sea urchin eggs: calcium ions trigger granule discharge. <i>Developmental Biology</i> , 1975 , 43, 62-74	3.1	324
9	DNA synthesis in unfertilized sea urchin eggs can be turned on and turned off by the addition and removal of procaine hydrochloride. <i>Developmental Biology</i> , 1975 , 47, 12-31	3.1	54
8	Further studies on the glucose inhibition of beta-1,3-glucanohydrolase increase during gut differentiation of sand dollar larvae. <i>Developmental Biology</i> , 1974 , 36, 1-7	3.1	5
7	Sea urchin eggs release protease activity at fertilization. <i>Nature</i> , 1972 , 237, 34-6	50.4	111
6	Protease activity establishes the block against polyspermy in sea urchin eggs. <i>Nature</i> , 1972 , 240, 352-3	50.4	110
5	The appearance of -amylase activity during gut differentiation in sand dollar plutei. <i>Developmental Biology</i> , 1971 , 26, 393-9	3.1	14
4	The appearance of -1,3-glucanohydrolase activity during the differentiation of the gut of sand dollar plutei. <i>Developmental Biology</i> , 1971 , 26, 1-10	3.1	30

3	The effects of glucose and lithium chloride on the appearance of -1,3-glucanohydrolase activity in sand dollar plutei. <i>Developmental Biology</i> , 1971 , 26, 11-6	3.1	10
2	Chromosomal abnormalities resulting from ethidium bromide treatment. <i>Nature</i> , 1969 , 222, 193-5	50.4	35
1	Biochemical Consequences of Ethidium Bromide Treatment of Sea Urchin Embryos. <i>Nature</i> , 1969 , 224, 706-707	50.4	3