

# Stanley Meizel

## List of Publications by Year in descending order

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77  
papers

5,134  
citations

81434

41  
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93651

72  
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77  
all docs

77  
docs citations

77  
times ranked

1516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Steroid induced exocytosis: The human sperm acrosome reaction. <i>Biochemical and Biophysical Research Communications</i> , 1989, 160, 828-833.	1.0	396
2	Induction of the acrosome reaction in human spermatozoa by a fraction of human follicular fluid. <i>Gamete Research</i> , 1986, 14, 107-121.	1.7	306
3	An influx of extracellular calcium is required for initiation of the human sperm acrosome reaction induced by human follicular fluid. <i>Gamete Research</i> , 1988, 20, 397-411.	1.7	214
4	Molecules that initiate or help stimulate the acrosome reaction by their interaction with the mammalian sperm surface. <i>American Journal of Anatomy</i> , 1985, 174, 285-302.	0.9	202
5	Human Sperm Plasma Membrane Progesterone Receptor(s) and the Acrosome Reaction1. <i>Biology of Reproduction</i> , 1996, 54, 993-1001.	1.2	176
6	THE IMPORTANCE OF HYDROLYTIC ENZYMES TO AN EXOCYTOTIC EVENT, THE MAMMALIAN SPERM ACROSOME REACTION. <i>Biological Reviews</i> , 1984, 59, 125-157.	4.7	164
7	In vitro studies of the golden hamster sperm acrosome reaction: Completion on the zona pellucida and induction by homologous soluble zonae pellucidae. <i>Developmental Biology</i> , 1986, 114, 119-131.	0.9	160
8	Ultrastructural studies of the early events of the human sperm acrosome reaction as initiated by human follicular fluid. <i>Gamete Research</i> , 1988, 20, 11-24.	1.7	154
9	Progesterone acts at the plasma membrane of human sperm. <i>Molecular and Cellular Endocrinology</i> , 1991, 77, R1-R5.	1.6	153
10	Evidence for the role of a trypsin-like enzyme in the hamster sperm acrosome reaction. <i>The Journal of Experimental Zoology</i> , 1976, 195, 137-144.	1.4	123
11	Further evidence in support of a role for hamster sperm hydrolytic enzymes in the acrosome reaction. <i>The Journal of Experimental Zoology</i> , 1979, 207, 173-186.	1.4	105
12	Progesterone Triggers a Wave of Increased Free Calcium during the Human Sperm Acrosome Reaction. <i>Developmental Biology</i> , 1997, 182, 67-75.	0.9	103
13	Proacrosin from Rabbit Epididymal Spermatozoa: Partial Purification and Initial Biochemical Characterization1. <i>Biology of Reproduction</i> , 1975, 13, 83-93.	1.2	101
14	Studies of phospholipase A2 related to the hamster sperm acrosome reaction. <i>The Journal of Experimental Zoology</i> , 1982, 221, 107-117.	1.4	95
15	Amino Acid Neurotransmitter Receptor/Chloride Channels of Mammalian Sperm and the Acrosome Reaction1. <i>Biology of Reproduction</i> , 1997, 56, 569-574.	1.2	93
16	Human sperm acrosome reaction-initiating activity associated with the human cumulus oophorus and mural granulosa cells. <i>The Journal of Experimental Zoology</i> , 1988, 246, 71-80.	1.4	90
17	Taurine maintains and stimulates motility of hamster sperm during capacitation in vitro. <i>The Journal of Experimental Zoology</i> , 1979, 210, 123-128.	1.4	86
18	Zona Pellucida-Induced Acrosome Reaction in Boar Sperm1. <i>Biology of Reproduction</i> , 1989, 40, 525-530.	1.2	85

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19	Comparison of the ability of progesterone and heat solubilized porcine zona pellucida to initiate the porcine sperm acrosome reaction in vitro. <i>Molecular Reproduction and Development</i> , 1994, 39, 433-438.	1.0	85
20	Progesterone-Mediated Calcium Influx and Acrosome Reaction of Human Spermatozoa: Pharmacological Investigation of T-Type Calcium Channels <sup>1</sup> . <i>Biology of Reproduction</i> , 1999, 60, 102-109.	1.2	83
21	The sperm, a neuron with a tail: $\alpha$ -neuronal $\alpha$ ™ receptors in mammalian sperm. <i>Biological Reviews</i> , 2004, 79, 713-732.	4.7	83
22	Initiation of the human sperm acrosome reaction by thapsigargin. <i>The Journal of Experimental Zoology</i> , 1993, 267, 350-355.	1.4	81
23	Biochemical Studies of Proacrosin and Acrosin from Hamster Cauda Epididymal Spermatozoa <sup>1</sup> . <i>Biology of Reproduction</i> , 1976, 14, 444-450.	1.2	78
24	Identification of the Bovine Follicular Fluid Protein Involved in the in vitro Induction of the Hamster Sperm Acrosome Reaction. <i>Biology of Reproduction</i> , 1977, 17, 34-41.	1.2	75
25	Nicotinic Acetylcholine Receptor Subunits and Associated Proteins in Human Sperm. <i>Journal of Biological Chemistry</i> , 2005, 280, 25928-25935.	1.6	71
26	Changes in motility that accompany the acrosome reaction in hyperactivated hamster spermatozoa. <i>Gamete Research</i> , 1984, 10, 253-265.	1.7	66
27	Mice Deficient in CHRNA7, a Subunit of the Nicotinic Acetylcholine Receptor, Produce Sperm with Impaired Motility <sup>1</sup> . <i>Biology of Reproduction</i> , 2005, 73, 807-814.	1.2	66
28	Glycosaminoglycans stimulate the acrosome reaction of previously capacitated hamster sperm. <i>The Journal of Experimental Zoology</i> , 1986, 237, 137-139.	1.4	64
29	Regulation of intracellular pH in capacitated human spermatozoa by a Na <sup>+</sup> /H <sup>+</sup> exchanger. <i>Molecular Reproduction and Development</i> , 1999, 52, 189-195.	1.0	63
30	A Role for the Human Sperm Glycine Receptor/Cl <sup>-</sup> Channel in the Acrosome Reaction Initiated by Recombinant ZP3 <sup>1</sup> . <i>Biology of Reproduction</i> , 2002, 66, 91-97.	1.2	59
31	Correlation of increased intraacrosomal pH with the hamster sperm acrosome reaction. <i>The Journal of Experimental Zoology</i> , 1983, 227, 97-107.	1.4	57
32	Phospholipid Methylation Increases During Capacitation of Golden Hamster Sperm in Vitro. <i>Biology of Reproduction</i> , 1983, 28, 1043-1051.	1.2	56
33	Stimulation of an exocytotic event, the hamster sperm acrosome reaction, by cis -unsaturated fatty acids. <i>FEBS Letters</i> , 1983, 161, 315-318.	1.3	55
34	Studies of Porcine and Human Sperm Suggesting a Role for a Sperm Glycine Receptor/Cl Channel in the Zona Pellucida-Initiated Acrosome Reaction <sup>1</sup> . <i>Biology of Reproduction</i> , 1995, 53, 676-683.	1.2	49
35	Biochemical Studies of the in vitro Acrosome Reaction Inducing Activity of Bovine Serum Albumin. <i>Differentiation</i> , 1977, 9, 59-66.	1.0	48
36	Further Evidence Suggesting the Hormonal Stimulation of Hamster Sperm Acrosome Reactions by Catecholamines in vitro. <i>Biology of Reproduction</i> , 1980, 22, 211-216.	1.2	47

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37	Trypsin inhibitors prevent the progesterone-initiated increase in intracellular calcium required for the human sperm acrosome reaction. <i>The Journal of Experimental Zoology</i> , 1991, 258, 384-393.	1.4	47
38	Evidence suggesting a role for cyclic nucleotides in acrosome reactions of hamster sperm in vitro. <i>The Journal of Experimental Zoology</i> , 1980, 211, 153-157.	1.4	46
39	Partial characterization of a fraction from human follicular fluid that initiates the human sperm acrosome reaction in vitro. <i>Gamete Research</i> , 1988, 20, 25-42.	1.7	46
40	Evidence for the involvement of a sperm trypsinlike enzyme in the membrane events of the hamster sperm acrosome reaction. <i>The Journal of Experimental Zoology</i> , 1984, 232, 117-128.	1.4	44
41	A Nicotinic Acetylcholine Receptor Is Involved in the Acrosome Reaction of Human Sperm Initiated by Recombinant Human ZP31. <i>Biology of Reproduction</i> , 2002, 67, 782-788.	1.2	44
42	Serotonin or its agonist 5-methoxytryptamine can stimulate hamster sperm acrosome reactions in a more direct manner than catecholamines. <i>The Journal of Experimental Zoology</i> , 1983, 226, 171-174.	1.4	42
43	Adrenergic Stimulation of Fertilizing Ability in Hamster Spermatozoa. <i>Biology of Reproduction</i> , 1979, 20, 925-929.	1.2	41
44	Stimulation of hamster sperm capacitation and acrosome reaction in vitro by glucose and lactate and inhibition by the glycolytic inhibitor $\beta$ -chlorohydrin. <i>Gamete Research</i> , 1981, 4, 515-523.	1.7	40
45	Progesterone initiation of the human sperm acrosome reaction: the obligatory increase in intracellular calcium is independent of the chloride requirement. <i>Molecular and Cellular Endocrinology</i> , 1994, 101, 221-225.	1.6	40
46	Procedures for obtaining high percentages of viable in vitro capacitated hamster sperm. <i>Gamete Research</i> , 1979, 2, 207-211.	1.7	39
47	Recognition of a human sperm surface protein involved in the progesterone-initiated acrosome reaction by antisera against an endomembrane progesterone binding protein from porcine liver. <i>Molecular and Cellular Endocrinology</i> , 1999, 158, 187-193.	1.6	38
48	Biochemical Studies of Metalloendoprotease Activity in the Spermatozoa of Three Mammalian Species. <i>Journal of Andrology</i> , 1987, 8, 14-24.	2.0	37
49	Inhibition of hamster sperm Na <sup>+</sup> , K <sup>+</sup> -ATPase activity by taurine and hypotaurine. <i>Life Sciences</i> , 1985, 36, 271-275.	2.0	36
50	Importance of sodium ion to the progesterone-initiated acrosome reaction in human sperm. <i>Molecular Reproduction and Development</i> , 1996, 45, 513-520.	1.0	35
51	Purification of Rabbit Testis Proacrosin and Studies of Its Active Form. <i>Biology of Reproduction</i> , 1975, 12, 232-238.	1.2	34
52	Effects of polyamine biosynthesis inhibitors on the progesterone-initiated increase in intracellular free Ca <sup>2+</sup> and acrosome reactions in human sperm. <i>Molecular Reproduction and Development</i> , 1993, 34, 457-465.	1.0	33
53	The Effect of Inhibitors of Trypsin and Phospholipase A <sub>2</sub> on the Penetration of Zona Pellucida-free Hamster Eggs by Acrosome-reacted Hamster Sperm. <i>Journal of Andrology</i> , 1982, 3, 388-395.	2.0	31
54	The effects of products and inhibitors of arachidonic acid metabolism on the hamster sperm acrosome reaction. <i>The Journal of Experimental Zoology</i> , 1984, 231, 283-288.	1.4	31

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55	Release of hyaluronidase and $\hat{I}^2$ -N-acetylhexosaminidase during in vitro incubation of hamster sperm. <i>The Journal of Experimental Zoology</i> , 1985, 234, 63-74.	1.4	31
56	The Zona Pellucida-Initiated Acrosome Reaction: Defect Due to Mutations in the Sperm Glycine Receptor/ $\text{Cl}^-$ Channel. <i>Developmental Biology</i> , 2000, 227, 211-218.	0.9	31
57	Evidence Suggesting That the Mouse Sperm Acrosome Reaction Initiated by the Zona Pellucida Involves an $\hat{I}^7$ Nicotinic Acetylcholine Receptor1. <i>Biology of Reproduction</i> , 2003, 68, 1348-1353.	1.2	29
58	Evidence suggesting a role for sperm metalloendoprotease activity in penetration of zona-free hamster eggs by human sperm. <i>The Journal of Experimental Zoology</i> , 1988, 248, 213-221.	1.4	28
59	Hamster sperm $\text{Na}^+$ , $\text{K}^+$ -adenosine triphosphatase: increased activity during capacitation in vitro and its relationship to cyclic nucleotides. <i>Biology of Reproduction</i> , 1984, 30, 573-584.	1.2	27
60	Importance of mammalian sperm metalloendoprotease activity during the acrosome reaction to subsequent sperm-egg fusion: Inhibitor studies with human sperm and zona-free hamster eggs. <i>Molecular Reproduction and Development</i> , 1992, 31, 122-130.	1.0	27
61	The molecular transformation of rabbit testis proacrosin into acrosin. <i>Archives of Biochemistry and Biophysics</i> , 1975, 168, 720-721.	1.4	26
62	Hydrolysis of the hen egg vitelline membrane by cock sperm acrosin and other enzymes. <i>The Journal of Experimental Zoology</i> , 1975, 194, 429-437.	1.4	26
63	Immunochemical Identification of the Glycine Receptor/ $\text{Cl}^-$ Channel in Porcine Sperm. <i>Biochemical and Biophysical Research Communications</i> , 1996, 223, 675-678.	1.0	24
64	Hamster sperm glycine receptor: Evidence for its presence and involvement in the acrosome reaction. <i>Molecular Reproduction and Development</i> , 2001, 58, 205-215.	1.0	23
65	Studies of sperm from mutant mice suggesting that two neurotransmitter receptors are important to the zona pellucida-initiated acrosome reaction. <i>Molecular Reproduction and Development</i> , 2005, 72, 250-258.	1.0	23
66	Further studies of an inactive form of a trypsin-like enzyme in rabbit testes. <i>Biochemical and Biophysical Research Communications</i> , 1973, 53, 1145-1150.	1.0	22
67	Preliminary characterization of a $\text{Mg}^{2+}$ -ATPase in hamster sperm head membranes. <i>Biochemical and Biophysical Research Communications</i> , 1982, 104, 1060-1065.	1.0	21
68	Inhibition of the hamster sperm acrosome reaction by transmethylating inhibitors. <i>The Journal of Experimental Zoology</i> , 1981, 217, 443-446.	1.4	18
69	Conversion of rabbit testis proacrosin to acrosin. <i>FEBS Letters</i> , 1975, 54, 269-273.	1.3	15
70	Identification of agrinSN isoform and muscle-specific receptor tyrosine kinase in sperm. <i>Biochemical and Biophysical Research Communications</i> , 2006, 342, 522-528.	1.0	12
71	Initial evidence for the modification of hamster sperm $\text{Na}^+$ , $\text{K}^+$ -ATPase activity by cyclic nucleotide-mediated processes. <i>Biochemical and Biophysical Research Communications</i> , 1983, 112, 132-138.	1.0	10
72	Detection of glycine receptor/ $\text{Cl}^-$ channel beta subunit transcripts in mouse testis. <i>Zygote</i> , 2002, 10, 105-108.	0.5	10

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73	X-ray stereomicroscopy: high resolution 3D imaging of human spermatozoa in aqueous suspension with natural contrast. <i>Journal of Microscopy</i> , 1992, 166, Rp5-6.	0.8	9
74	Identification and spatial distribution of glycine receptor subunits in human sperm. <i>Reproduction</i> , 2008, 136, 387-390.	1.1	9
75	Multiple molecular forms of avian acrosin: Differences in their kinetic properties. <i>FEBS Letters</i> , 1975, 56, 115-119.	1.3	8
76	Rabbit testis proacrosin: Immunological similarities between testis, sperm proacrosins and the initially formed testis acrosin. <i>Gamete Research</i> , 1980, 3, 241-246.	1.7	5
77	Biochemical characterization of an avian spermatozoan acrosin and comparison of its properties to those of bovine trypsin and mammalian acrosins. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1976, 54, 213-218.	0.2	4