

Laurinda A Jaffe

List of Publications by Year in descending order

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67
papers

5,757
citations

76326

40
h-index

106344

65
g-index

74
all docs

74
docs citations

74
times ranked

2301
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast block to polyspermy in sea urchin eggs is electrically mediated. <i>Nature</i> , 1976, 261, 68-71.	27.8	451
2	Cyclic GMP from the surrounding somatic cells regulates cyclic AMP and meiosis in the mouse oocyte. <i>Development (Cambridge)</i> , 2009, 136, 1869-1878.	2.5	432
3	Egg Activation at Fertilization: Where It All Begins. <i>Developmental Biology</i> , 2002, 245, 237-254.	2.0	342
4	The G _s -Linked Receptor GPR3 Maintains Meiotic Arrest in Mammalian Oocytes. <i>Science</i> , 2004, 306, 1947-1950.	12.6	298
5	Meiotic Arrest in the Mouse Follicle Maintained by a G _s Protein in the Oocyte. <i>Science</i> , 2002, 297, 1343-1345.	12.6	221
6	Luteinizing hormone causes MAP kinase-dependent phosphorylation and closure of connexin 43 gap junctions in mouse ovarian follicles: one of two paths to meiotic resumption. <i>Development (Cambridge)</i> , 2008, 135, 3229-3238.	2.5	215
7	Fertilization increases the polyphosphoinositide content of sea urchin eggs. <i>Nature</i> , 1984, 310, 414-415.	27.8	213
8	Regulation of Mammalian Oocyte Meiosis by Intercellular Communication Within the Ovarian Follicle. <i>Annual Review of Physiology</i> , 2017, 79, 237-260.	13.1	172
9	Reorganization of the Endoplasmic Reticulum during Meiotic Maturation of the Mouse Oocyte. <i>Developmental Biology</i> , 1995, 170, 607-615.	2.0	170
10	Development of calcium release mechanisms during starfish oocyte maturation. <i>Developmental Biology</i> , 1990, 140, 300-306.	2.0	138
11	SH2 Domain-Mediated Activation of Phospholipase C β Is Not Required to Initiate Ca ²⁺ Release at Fertilization of Mouse Eggs. <i>Developmental Biology</i> , 1998, 203, 221-232.	2.0	136
12	Calcium Release at Fertilization in Starfish Eggs Is Mediated by Phospholipase C β . <i>Journal of Cell Biology</i> , 1997, 138, 1303-1311.	5.2	134
13	Intercellular signaling via cyclic GMP diffusion through gap junctions restarts meiosis in mouse ovarian follicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5527-5532.	7.1	134
14	Luteinizing hormone reduces the activity of the NPR2 guanylyl cyclase in mouse ovarian follicles, contributing to the cyclic GMP decrease that promotes resumption of meiosis in oocytes. <i>Developmental Biology</i> , 2012, 366, 308-316.	2.0	128
15	Absence of an electrical polyspermy block in the mouse. <i>Developmental Biology</i> , 1983, 96, 317-323.	2.0	116
16	Calcium Release at Fertilization of <i>Xenopus</i> Eggs Requires Type I IP ₃ Receptors, but Not SH2 Domain-Mediated Activation of PLC β or Gq-Mediated Activation of PLC δ . <i>Developmental Biology</i> , 1999, 214, 399-411.	2.0	111
17	Identification of PLC β -Dependent and -Independent Events during Fertilization of Sea Urchin Eggs. <i>Developmental Biology</i> , 1999, 206, 232-247.	2.0	110
18	Structural Change of the Endoplasmic Reticulum during Fertilization: Evidence for Loss of Membrane Continuity Using the Green Fluorescent Protein. <i>Developmental Biology</i> , 1996, 179, 320-328.	2.0	103

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19	Dephosphorylation and inactivation of NPR2 guanylyl cyclase in granulosa cells contributes to the LH-induced decrease in cGMP that causes resumption of meiosis in rat oocytes. <i>Development (Cambridge)</i> , 2014, 141, 3594-3604.	2.5	92
20	Evidence for Both Tyrosine Kinase and G-Protein-Coupled Pathways Leading to Starfish Egg Activation. <i>Developmental Biology</i> , 1994, 162, 590-599.	2.0	91
21	The time course of cortical vesicle fusion in sea urchin eggs observed as membrane capacitance changes. <i>Developmental Biology</i> , 1978, 67, 243-248.	2.0	90
22	Regulation of meiotic prophase arrest in mouse oocytes by GPR3, a constitutive activator of the Gs G protein. <i>Journal of Cell Biology</i> , 2005, 171, 255-265.	5.2	89
23	Epidermal growth factor receptor kinase activity is required for gap junction closure and for part of the decrease in ovarian follicle cGMP in response to LH. <i>Reproduction</i> , 2010, 140, 655-662.	2.6	89
24	Structural changes in the endoplasmic reticulum of starfish oocytes during meiotic maturation and fertilization. <i>Developmental Biology</i> , 1994, 164, 579-587.	2.0	86
25	Membrane potential of the unfertilized sea urchin egg. <i>Developmental Biology</i> , 1978, 62, 215-228.	2.0	84
26	Requirement of a Src Family Kinase for Initiating Calcium Release at Fertilization in Starfish Eggs. <i>Journal of Biological Chemistry</i> , 1999, 274, 29318-29322.	3.4	84
27	Maintenance of meiotic prophase arrest in vertebrate oocytes by a G s protein-mediated pathway. <i>Developmental Biology</i> , 2004, 267, 1-13.	2.0	81
28	Evidence for the involvement of a pertussis toxin-insensitive G-protein in egg activation of the frog, <i>Xenopus laevis</i> . <i>Developmental Biology</i> , 1991, 143, 218-229.	2.0	80
29	Studies of the voltage-dependent polyspermy block using cross-species fertilization of amphibians. <i>Developmental Biology</i> , 1983, 98, 319-326.	2.0	77
30	Quantitative Microinjection of Oocytes, Eggs, and Embryos. <i>Methods in Cell Biology</i> , 2004, 74, 219-242.	1.1	77
31	Ca ²⁺ signalling during fertilization of echinoderm eggs. <i>Seminars in Cell and Developmental Biology</i> , 2001, 12, 45-51.	5.0	75
32	Pertussis toxin inhibits 1-methyladenine-induced maturation in starfish oocytes. <i>Developmental Biology</i> , 1989, 133, 605-608.	2.0	72
33	A cholera toxin-sensitive G-protein stimulates exocytosis in sea urchin eggs. <i>Developmental Biology</i> , 1987, 120, 577-583.	2.0	69
34	Evidence That Fertilization Activates Starfish Eggs by Sequential Activation of a Src-like Kinase and Phospholipase C β . <i>Journal of Biological Chemistry</i> , 2000, 275, 16788-16794.	3.4	68
35	Evidence That Phospholipase C from the Sperm Is Not Responsible for Initiating Ca ²⁺ Release at Fertilization in Mouse Eggs. <i>Developmental Biology</i> , 2001, 236, 492-501.	2.0	54
36	Structural Changes of the Endoplasmic Reticulum of Sea Urchin Eggs during Fertilization. <i>Developmental Biology</i> , 1993, 156, 566-573.	2.0	49

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37	Dephosphorylation of juxtamembrane serines and threonines of the NPR2 guanylyl cyclase is required for rapid resumption of oocyte meiosis in response to luteinizing hormone. <i>Developmental Biology</i> , 2016, 409, 194-201.	2.0	49
38	Function of a sea urchin egg Src family kinase in initiating Ca ²⁺ release at fertilization. <i>Developmental Biology</i> , 2003, 256, 367-378.	2.0	47
39	ELECTRICAL POLYSPERMY BLOCK IN SEA URCHINS: NICOTINE AND LOW SODIUM EXPERIMENTS I. <i>Development Growth and Differentiation</i> , 1980, 22, 503-507.	1.5	44
40	Evidence that the voltage-dependent component in the fertilization process is contributed by the sperm. <i>Developmental Biology</i> , 1989, 134, 446-451.	2.0	43
41	Luteinizing Hormone Causes Phosphorylation and Activation of the cGMP Phosphodiesterase PDE5 in Rat Ovarian Follicles, Contributing, Together with PDE1 Activity, to the Resumption of Meiosis I. <i>Biology of Reproduction</i> , 2016, 94, 110.	2.7	39
42	A Gs-linked receptor maintains meiotic arrest in mouse oocytes, but luteinizing hormone does not cause meiotic resumption by terminating receptor-Gs signaling. <i>Developmental Biology</i> , 2007, 310, 240-249.	2.0	38
43	Meiotic resumption in response to luteinizing hormone is independent of a Gi family G protein or calcium in the mouse oocyte. <i>Developmental Biology</i> , 2006, 299, 345-355.	2.0	37
44	Voltage sensitive phosphoinositide phosphatases of <i>Xenopus</i> : Their tissue distribution and voltage dependence. <i>Journal of Cellular Physiology</i> , 2011, 226, 2740-2746.	4.1	37
45	Proteases Stimulate Fertilization-like Responses in Starfish Eggs. <i>Developmental Biology</i> , 1995, 170, 690-700.	2.0	31
46	Chapter 7 Imaging Endoplasmic Reticulum in Living Sea Urchin Eggs. <i>Methods in Cell Biology</i> , 1993, 38, 211-220.	1.1	29
47	A Receptor Linked to a Gi-Family G-Protein Functions in Initiating Oocyte Maturation in Starfish but Not Frogs. <i>Developmental Biology</i> , 2003, 253, 139-149.	2.0	29
48	Dephosphorylation of the NPR2 guanylyl cyclase contributes to inhibition of bone growth by fibroblast growth factor. <i>ELife</i> , 2017, 6, .	6.0	27
49	Localization of electrical excitability in the early embryo of <i>Dentalium</i> . <i>Developmental Biology</i> , 1981, 83, 370-373.	2.0	25
50	A calcium-activated sodium conductance contributes to the fertilization potential in the egg of the nemertean worm <i>Cerebratulus lacteus</i> . <i>Developmental Biology</i> , 1986, 117, 184-193.	2.0	25
51	Multiple cAMP Phosphodiesterases Act Together to Prevent Premature Oocyte Meiosis and Ovulation. <i>Endocrinology</i> , 2018, 159, 2142-2152.	2.8	23
52	Dephosphorylation is the mechanism of fibroblast growth factor inhibition of guanylyl cyclase-B. <i>Cellular Signalling</i> , 2017, 40, 222-229.	3.6	21
53	Microinjection of Follicle-Enclosed Mouse Oocytes. <i>Methods in Molecular Biology</i> , 2009, 518, 157-173.	0.9	21
54	Luteinizing hormone signaling phosphorylates and activates the cyclic GMP phosphodiesterase PDE5 in mouse ovarian follicles, contributing an additional component to the hormonally induced decrease in cyclic GMP that reinitiates meiosis. <i>Developmental Biology</i> , 2018, 435, 6-14.	2.0	20

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55	Cellular Heterogeneity of the Luteinizing Hormone Receptor and Its Significance for Cyclic GMP Signaling in Mouse Preovulatory Follicles. <i>Endocrinology</i> , 2020, 161, .	2.8	20
56	Electrical Properties of Vertebrate Oocyte Membranes. <i>Biology of Reproduction</i> , 1984, 30, 50-54.	2.7	17
57	Follicle-stimulating hormone and luteinizing hormone increase Ca ²⁺ in the granulosa cells of mouse ovarian follicles. <i>Biology of Reproduction</i> , 2019, 101, 433-444.	2.7	14
58	Increased Expression of β -Family G-proteins during Oocyte Maturation and Early Development of <i>Xenopus laevis</i> . <i>Developmental Biology</i> , 1996, 177, 300-308.	2.0	13
59	Labeling of Cell Membranes and Compartments for Live Cell Fluorescence Microscopy. <i>Methods in Cell Biology</i> , 2004, 74, 469-489.	1.1	13
60	The fast block to polyspermy: New insight into a century-old problem. <i>Journal of General Physiology</i> , 2018, 150, 1233-1234.	1.9	12
61	Phosphatase inhibition by LB-100 enhances BMN-111 stimulation of bone growth. <i>JCI Insight</i> , 2021, 6, .	5.0	9
62	Kisspeptin-54 injection induces a physiological luteinizing hormone surge and ovulation in mice. <i>Biology of Reproduction</i> , 2021, 104, 1181-1183.	2.7	7
63	The role of Src family kinases in starfish egg fertilisation. <i>Zygote</i> , 1999, 8, S16-S17.	1.1	6
64	Cyclic AMP links luteinizing hormone signaling to dephosphorylation and inactivation of the NPR2 guanylyl cyclase in ovarian follicles. <i>Biology of Reproduction</i> , 2021, 104, 939-941.	2.7	5
65	Preparing for Fertilization: Intercellular Signals for Oocyte Maturation. <i>Diversity and Commonality in Animals</i> , 2018, , 535-548.	0.7	1
66	Dephosphorylation of juxtamembrane serines and threonines of the NPR2 guanylyl cyclase regulates oocyte meiotic resumption. <i>BMC Pharmacology & Toxicology</i> , 2015, 16, .	2.4	0
67	Shedding light on spawning in jellyfish. <i>ELife</i> , 2018, 7, .	6.0	0