

Luigia Santella

List of Publications by Year in descending order

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87
papers

3,371
citations

126907

33
h-index

155660

55
g-index

90
all docs

90
docs citations

90
times ranked

2145
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation, Control, and Processing of Cellular Calcium Signals. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2001, 36, 107-260.	5.2	459
2	Calcium signaling in the cell nucleus. <i>FASEB Journal</i> , 1997, 11, 1091-1109.	0.5	202
3	The Role of Calcium in the Cell Cycle: Facts and Hypotheses. <i>Biochemical and Biophysical Research Communications</i> , 1998, 244, 317-324.	2.1	166
4	Nicotinic Acid Adenine Dinucleotide Phosphate-induced Ca ²⁺ Release. <i>Journal of Biological Chemistry</i> , 2000, 275, 8301-8306.	3.4	101
5	Calcium and fertilization: the beginning of life. <i>Trends in Biochemical Sciences</i> , 2004, 29, 400-408.	7.5	99
6	Intercellular communication in the early human embryo. <i>Molecular Reproduction and Development</i> , 1991, 29, 22-28.	2.0	97
7	Effects of 1-methyladenine on nuclear Ca ²⁺ transients and meiosis resumption in starfish oocytes are mimicked by the nuclear injection of inositol 1,4,5-trisphosphate and cADP-ribose. <i>Cell Calcium</i> , 1997, 22, 11-20.	2.4	91
8	NAADP+initiates the Ca ²⁺ response during fertilization of starfish oocytes. <i>FASEB Journal</i> , 2001, 15, 2257-2267.	0.5	87
9	Is the human oocyte plasma membrane polarized?. <i>Human Reproduction</i> , 1992, 7, 999-1003.	0.9	81
10	Alteration of the Cortical Actin Cytoskeleton Deregulates Ca ²⁺ Signaling, Monospermic Fertilization, and Sperm Entry. <i>PLoS ONE</i> , 2008, 3, e3588.	2.5	76
11	Calcium, protease action, and the regulation of the cell cycle. <i>Cell Calcium</i> , 1998, 23, 123-130.	2.4	74
12	Reinitiation of Meiosis in Starfish Oocytes Requires an Increase in Nuclear Ca ²⁺ . <i>Biochemical and Biophysical Research Communications</i> , 1994, 203, 674-680.	2.1	66
13	NAADP activates a Ca ²⁺ current that is dependent on F-actin cytoskeleton. <i>FASEB Journal</i> , 2003, 17, 1-20.	0.5	62
14	Fertilization in echinoderms. <i>Biochemical and Biophysical Research Communications</i> , 2012, 425, 588-594.	2.1	61
15	The cell cycle: a new entry in the field of Ca ²⁺ signaling. <i>Cellular and Molecular Life Sciences</i> , 2005, 62, 2405-2413.	5.4	54
16	Subitaneous and diapause eggs in Mediterranean populations of <i>Pontella mediterranea</i> (Copepoda: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	9.5	53
17	Cortical Granule Translocation during Maturation of Starfish Oocytes Requires Cytoskeletal Rearrangement Triggered by InsP3-Mediated Ca ²⁺ Release. <i>Experimental Cell Research</i> , 1999, 248, 567-574.	2.6	52
18	NAADP triggers the fertilization potential in starfish oocytes. <i>Cell Calcium</i> , 2004, 36, 515-524.	2.4	52

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19	Diapause embryos in the neustonic copepod <i>Anomalocera patersoni</i> . <i>Marine Biology</i> , 1991, 108, 387-394.	1.5	50
20	Activation of oocytes by latrunculin A. <i>FASEB Journal</i> , 2002, 16, 1050-1056.	0.5	48
21	Actin cytoskeleton modulates calcium signaling during maturation of starfish oocytes. <i>Developmental Biology</i> , 2008, 320, 426-435.	2.0	48
22	Calcium and actin in the saga of awakening oocytes. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 104-113.	2.1	48
23	Rapid important paper. <i>Neurochemistry International</i> , 1986, 8, 435-442.	3.8	47
24	Modulation of calcium signalling by the actin-binding protein cofilin. <i>Biochemical and Biophysical Research Communications</i> , 2006, 348, 109-114.	2.1	45
25	Tight junctions and cavitation in the human pre-embryo. <i>Molecular Reproduction and Development</i> , 1992, 32, 81-87.	2.0	44
26	The M-phase-promoting Factor Modulates the Sensitivity of the Ca ²⁺ Stores to Inositol 1,4,5-Trisphosphate via the Actin Cytoskeleton. <i>Journal of Biological Chemistry</i> , 2003, 278, 42505-42514.	3.4	44
27	NAADP and InsP3 play distinct roles at fertilization in starfish oocytes. <i>Developmental Biology</i> , 2006, 294, 24-38.	2.0	44
28	Separate Activation of the Cytoplasmic and Nuclear Calcium Pools in Maturing Starfish Oocytes. <i>Biochemical and Biophysical Research Communications</i> , 1998, 252, 1-4.	2.1	43
29	Effects of Ionomycin on Egg Activation and Early Development in Starfish. <i>PLoS ONE</i> , 2012, 7, e39231.	2.5	43
30	Early events of fertilization in sea urchin eggs are sensitive to actin-binding organic molecules. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 1166-1174.	2.1	43
31	The Biphasic Increase of PIP2 in the Fertilized Eggs of Starfish: New Roles in Actin Polymerization and Ca ²⁺ Signaling. <i>PLoS ONE</i> , 2010, 5, e14100.	2.5	41
32	Assisted yes, but where do we draw the line?. <i>Reproductive BioMedicine Online</i> , 2015, 31, 476-478.	2.4	40
33	The Cell Nucleus: An Eldorado to Future Calcium Research?. <i>Journal of Membrane Biology</i> , 1996, 153, 83-92.	2.1	37
34	Ca ²⁺ Response to cADPr during Maturation and Fertilization of Starfish Oocytes. <i>Biochemical and Biophysical Research Communications</i> , 2002, 290, 1015-1021.	2.1	37
35	Pharmacological characterization of NAADP-induced Ca ²⁺ signals in starfish oocytes. <i>Biochemical and Biophysical Research Communications</i> , 2006, 348, 329-336.	2.1	31
36	Roles of the actin-binding proteins in intracellular Ca ²⁺ signalling. <i>Acta Physiologica</i> , 2009, 195, 61-70.	3.8	28

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37	Actin, more than just a housekeeping protein at the scene of fertilization. <i>Science China Life Sciences</i> , 2011, 54, 733-743.	4.9	28
38	Breakdown of Cytoskeletal Proteins during Meiosis of Starfish Oocytes and Proteolysis Induced by Calpain. <i>Experimental Cell Research</i> , 2000, 259, 117-126.	2.6	27
39	The role of the actin cytoskeleton in calcium signaling in starfish oocytes. <i>International Journal of Developmental Biology</i> , 2008, 52, 571-584.	0.6	26
40	Maturation and fertilization of echinoderm eggs: Role of actin cytoskeleton dynamics. <i>Biochemical and Biophysical Research Communications</i> , 2018, 506, 361-371.	2.1	26
41	Cellular and molecular aspects of oocyte maturation and fertilization: a perspective from the actin cytoskeleton. <i>Zoological Letters</i> , 2020, 6, 5.	1.3	26
42	Role of the actin cytoskeleton in store-mediated calcium entry in glioma C6 cells. <i>Biochemical and Biophysical Research Communications</i> , 2002, 296, 484-491.	2.1	25
43	NAADP: A New Second Messenger Comes of Age. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2005, 5, 70-72.	3.4	24
44	New insights into negative effects of lithium on sea urchin <i>Paracentrotus lividus</i> embryos. <i>Scientific Reports</i> , 2016, 6, 32157.	3.3	23
45	Respiratory metabolism during embryonic subitaneous and diapause development in <i>Pontella mediterranea</i> (Crustacea, Copepoda). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1996, 166, 157-163.	1.5	22
46	Activated M-phase-promoting factor (MPF) is exported from the nucleus of starfish oocytes to increase the sensitivity of the Ins(1,4,5)P3 receptors. <i>Biochemical Society Transactions</i> , 2003, 31, 79-82.	3.4	22
47	Voltage clamp of the nuclear envelope. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1994, 255, 119-124.	2.6	20
48	Association of Calmodulin with Nuclear Structures in Starfish Oocytes and Its Role in the Resumption of Meiosis. <i>FEBS Journal</i> , 1997, 246, 602-610.	0.2	20
49	Guanine Nucleotides in the Meiotic Maturation of Starfish Oocytes: Regulation of the Actin Cytoskeleton and of Ca ²⁺ Signaling. <i>PLoS ONE</i> , 2009, 4, e6296.	2.5	20
50	Disassembly of Subplasmalemmal Actin Filaments Induces Cytosolic Ca ²⁺ Increases in <i>Astropecten aranciacus</i> Eggs. <i>Cellular Physiology and Biochemistry</i> , 2018, 48, 2011-2034.	1.6	19
51	Sodium-mediated fast electrical depolarization does not prevent polyspermic fertilization in <i>Paracentrotus lividus</i> eggs. <i>Zygote</i> , 2019, 27, 241-249.	1.1	19
52	Effects of Salinity and pH of Seawater on the Reproduction of the Sea Urchin <i>Paracentrotus lividus</i> . <i>Biological Bulletin</i> , 2020, 239, 13-23.	1.8	19
53	Electrical coupling of blastomeres in early embryos of ascidians and sea urchins. <i>Experimental Cell Research</i> , 1982, 140, 457-461.	2.6	18
54	Novel Ca ²⁺ increases in the maturing oocytes of starfish during the germinal vesicle breakdown. <i>Cell Calcium</i> , 2015, 58, 500-510.	2.4	18

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55	Altered actin cytoskeleton in ageing eggs of starfish affects fertilization process. <i>Experimental Cell Research</i> , 2019, 381, 179-190.	2.6	18
56	Ca ²⁺ signalling and membrane current activated by cADPr in starfish oocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 2003, 446, 541-552.	2.8	17
57	Contributions of subolemmal acidic vesicles and microvilli to the intracellular Ca ²⁺ increase in the sea urchin eggs at fertilization. <i>International Journal of Biological Sciences</i> , 2019, 15, 757-775.	6.4	17
58	Antibody against the actin-binding protein depactin attenuates Ca ²⁺ signaling in starfish eggs. <i>Biochemical and Biophysical Research Communications</i> , 2013, 441, 301-307.	2.1	16
59	The actin cytoskeleton in meiotic maturation and fertilization of starfish eggs. <i>Biochemical and Biophysical Research Communications</i> , 2009, 384, 141-143.	2.1	15
60	Studies on the differentiation of egg envelopes. <i>Developmental Biology</i> , 1983, 99, 473-481.	2.0	13
61	Fertilization envelope in diapause eggs of <i>Pontella mediterranea</i> (crustacea, copepoda). <i>Molecular Reproduction and Development</i> , 1992, 33, 463-469.	2.0	13
62	Fertilization of sea urchin eggs in space and subsequent development under normal conditions. <i>Advances in Space Research</i> , 1994, 14, 197-208.	2.6	13
63	Calcium regulation and calcium function in the nucleus of starfish oocytes. <i>Invertebrate Reproduction and Development</i> , 1996, 30, 7-15.	0.8	9
64	De novo assembly of a transcriptome from the eggs and early embryos of <i>Astropecten aranciacus</i> . <i>PLoS ONE</i> , 2017, 12, e0184090.	2.5	9
65	Fertilization in Starfish and Sea Urchin: Roles of Actin. <i>Results and Problems in Cell Differentiation</i> , 2018, 65, 33-47.	0.7	9
66	Mechanisms of Calcium Elevation in the Micromeres of Sea Urchin Embryos. <i>Biology of the Cell</i> , 2004, 96, 153-167.	2.0	8
67	Nicotine Induces Polyspermy in Sea Urchin Eggs through a Non-Cholinergic Pathway Modulating Actin Dynamics. <i>Cells</i> , 2020, 9, 63.	4.1	8
68	Fertilization and development of <i>Arbacia lixula</i> eggs are affected by osmolality conditions. <i>BioSystems</i> , 2021, 206, 104448.	2.0	8
69	The Differentiation of the Vitelline Envelope of <i>Xenopus Oocytes</i> *. (<i>xenopus/oocyte/vitelline</i>) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i> 189-200.	1.5	7
70	Ca ²⁺ influx-linked protein kinase C activity regulates the β -catenin localization, micromere induction signalling and the oral-aboral axis formation in early sea urchin embryos. <i>Zygote</i> , 2015, 23, 426-446.	1.1	7
71	Oxygen supersaturation mitigates the impact of the regime of contaminated sediment reworking on sea urchin fertilization process. <i>Marine Environmental Research</i> , 2020, 158, 104951.	2.5	7
72	Effects of Dithiothreitol on Fertilization and Early Development in Sea Urchin. <i>Cells</i> , 2021, 10, 3573.	4.1	7

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73	Regulation of the Actin Cytoskeleton-Linked Ca ²⁺ Signaling by Intracellular pH in Fertilized Eggs of Sea Urchin. <i>Cells</i> , 2022, 11, 1496.	4.1	6
74	Partially Fertilized Sea Urchin Eggs: An Electrophysiological and Morphological Study.. (Sea urchin) <i>Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50</i>	1.5	5
75	Actin Cytoskeleton and Fertilization in Starfish Eggs. , 2014, , 141-155.		5
76	Polyspermy-preventing mechanisms in sea urchin eggs: New developments for an old problem. <i>Biochemical and Biophysical Research Communications</i> , 2019, 520, 695-698.	2.1	4
77	Cold shock induces actin reorganization and polyspermy in sea urchin eggs. <i>The Journal of Experimental Zoology</i> , 1989, 252, 183-189.	1.4	3
78	Calcium and fertilization. <i>New Comprehensive Biochemistry</i> , 2007, , 425-443.	0.1	3
79	Ca ²⁺ -dependent phosphatidylserine synthesis in immature and mature starfish oocytes.. <i>Acta Biochimica Polonica</i> , 2003, 50, 377-387.	0.5	2
80	Calcium and fertilization: the beginning of life. <i>Trends in Biochemical Sciences</i> , 2004, 29, 571.	7.5	0
81	INTRODUCTION. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 1133-1134.	2.1	0
82	Calcium Intracellular Calcium Waves. , 2021, , 669-677.		0
83	Editorial: Waves in fertilization, cell division and embryogenesis. <i>BioSystems</i> , 2021, 210, 104560.	2.0	0
84	Calcium and Calcium-Linked Second Messengers are Main Actors in the Maturation and Fertilization of Starfish Oocytes. , 2002, , 381-396.		0
85	Calcium Signaling: Cell Cycle. , 2004, , 246-249.		0
86	Calcium Calcium Signaling by Cyclic ADP-Ribose and NAADP. , 2013, , 609-614.		0
87	Ligand-Activated Ca ²⁺ Channels in the Nuclear Envelope of Starfish Oocytes. , 1998, , 227-230.		0