Luis S Mayorga

List of Publications by Year
in descending order

103 papers	3,963 citations	109321 35 h-index	128289 60 g-index
109 all docs	109 docs citations	109 times ranked	2905 citing authors

#	Article	IF	Citations
1	Efficient Cholesterol Transport in Dendritic Cells Defines Optimal Exogenous Antigen Presentation and Toxoplasma gondii Proliferation. Frontiers in Cell and Developmental Biology, 2022, 10, 837574.	3.7	7
2	Enhanced Expansion and Reduced Kiss-and-Run Events in Fusion Pores Steered by Synaptotagmin-1 C2B Domains. Journal of Chemical Theory and Computation, 2022, 18, 4544-4554.	5.3	5
3	From cartoons to quantitative models in Golgi transport. Biology of the Cell, 2021, 113, 146-164.	2.0	1
4	Epac activation induces an extracellular Ca 2+ â€independent Ca 2+ wave that triggers acrosome reaction in human spermatozoa. Andrology, 2021, 9, 1227-1241.	3.5	6
5	Direct activation of the proton channel by albumin leads to human sperm capacitation and sustained release of inflammatory mediators by neutrophils. Nature Communications, 2021, 12, 3855.	12.8	25
6	Differential requirement of Rab22a for the recruitment of ER-derived proteins to phagosomes and endosomes in dendritic cells. Small GTPases, 2020, 11, 1-9.	1.6	9
7	Surface charge density and fatty acids enhance the membrane permeation rate of CPPâ€"cargo complexes. Soft Matter, 2020, 16, 9890-9898.	2.7	8
8	The Synaptotagmin-1 C2B Domain Is a Key Regulator in the Stabilization of the Fusion Pore. Journal of Chemical Theory and Computation, 2020, 16, 7840-7851.	5.3	12
9	A modelling study highlights the power of detecting and isolating asymptomatic or very mildly affected individuals for COVID-19 epidemic management. BMC Public Health, 2020, 20, 1809.	2.9	14
10	Intratumor heterogeneity index of breast carcinomas based on DNA methylation profiles. BMC Cancer, 2019, 19, 328.	2.6	6
11	Rab22a: A novel regulator of immune functions. Molecular Immunology, 2019, 113, 87-92.	2.2	13
12	The interfacial electrostatic potential modulates the insertion of cell-penetrating peptides into lipid bilayers. Physical Chemistry Chemical Physics, 2018, 20, 5180-5189.	2.8	33
13	Reconstruction of endosomal organization and function by a combination of ODE and agent-based modeling strategies. Biology Direct, 2018, 13, 25.	4.6	7
14	Role of human Hv1 channels in sperm capacitation and white blood cell respiratory burst established by a designed peptide inhibitor. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11847-E11856.	7.1	43
15	A TEM-traceable physiologically functional gold nanoprobe that permeates non-endocytic cells. International Journal of Nanomedicine, 2018, Volume 13, 8075-8086.	6.7	4
16	Agents and networks to model the dynamic interactions of intracellular transport. Cellular Logistics, 2017, 7, e1392401.	0.9	9
17	The Molecules of Sperm Exocytosis. Advances in Anatomy, Embryology and Cell Biology, 2016, 220, 71-92.	1.6	21
18	Rab3A, a possible marker of cortical granules, participates in cortical granule exocytosis in mouse eggs. Experimental Cell Research, 2016, 347, 42-51.	2.6	16

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19	Rab22a controls <scp>MHC</scp> â€ intracellular trafficking and antigen crossâ€presentation by dendritic cells. EMBO Reports, 2016, 17, 1753-1765.	4.5	61
20	Acrosomal Swelling is Triggered by cAMP Downstream of the Opening of Store-Operated Calcium Channels During Acrosomal Exocytosis in Human Sperm1. Biology of Reproduction, 2016, 94, 57.	2.7	25
21	Asymmetric Cancer Hallmarks in Breast Tumors on Different Sides of the Body. PLoS ONE, 2016, 11, e0157416.	2.5	8
22	ADP Ribosylation Factor 6 (ARF6) Promotes Acrosomal Exocytosis by Modulating Lipid Turnover and Rab3A Activation. Journal of Biological Chemistry, 2015, 290, 9823-9841.	3.4	31
23	Small GTPases in Acrosomal Exocytosis. Methods in Molecular Biology, 2015, 1298, 141-160.	0.9	7
24	ESCRT (Endosomal Sorting Complex Required for Transport) Machinery Is Essential for Acrosomal Exocytosis in Human Sperm1. Biology of Reproduction, 2015, 93, 124.	2.7	14
25	Kinetics of human sperm acrosomal exocytosis. Molecular Human Reproduction, 2015, 21, 244-254.	2.8	32
26	GTP-bound Rab3A exhibits consecutive positive and negative roles during human sperm dense-core granule exocytosis. Journal of Molecular Cell Biology, 2014, 6, 286-298.	3.3	22
27	Perfringolysin O as a useful tool to study human sperm physiology. Fertility and Sterility, 2013, 99, 99-106.e2.	1.0	14
28	MARCKS Protein Is Phosphorylated and Regulates Calcium Mobilization during Human Acrosomal Exocytosis. PLoS ONE, 2013, 8, e64551.	2.5	13
29	Munc18-1 Controls SNARE Protein Complex Assembly during Human Sperm Acrosomal Exocytosis. Journal of Biological Chemistry, 2012, 287, 43825-43839.	3.4	20
30	Rab27 and Rab3 sequentially regulate human sperm dense-core granule exocytosis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2057-66.	7.1	64
31	Molecular Thermodynamics for Cell Biology as Taught with Boxes. CBE Life Sciences Education, 2012, 11, 31-38.	2.3	10
32	Diacylglycerol stimulates acrosomal exocytosis by feeding into a PKC- and PLD1-dependent positive loop that continuously supplies phosphatidylinositol 4,5-bisphosphate. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 1186-1199.	2.4	38
33	Recording and sorting live human sperm undergoing acrosome reaction. Fertility and Sterility, 2012, 97, 1309-1315.	1.0	34
34	RIM, Munc13, and Rab3A interplay in acrosomal exocytosis. Experimental Cell Research, 2012, 318, 478-488.	2.6	43
35	Î±-SNAP Prevents Docking of the Acrosome during Sperm Exocytosis because It Sequesters Monomeric Syntaxin. PLoS ONE, 2011, 6, e21925.	2.5	37
36	Modeling Fusion/Fission-Dependent Intracellular Transport of Fluid Phase Markers. Traffic, 2010, 11, 1001-1015.	2.7	5

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37	Calcineurin-mediated Dephosphorylation of Synaptotagmin VI Is Necessary for Acrosomal Exocytosis. Journal of Biological Chemistry, 2010, 285, 26269-26278.	3.4	36
38	Sphingosine 1-Phosphate and Sphingosine Kinase Are Involved in a Novel Signaling Pathway Leading to Acrosomal Exocytosis. Journal of Biological Chemistry, 2010, 285, 16302-16314.	3.4	28
39	Brucella alters endocytic pathway in J774 macrophages. Virulence, 2010, 1, 376-385.	4.4	5
40	PTP1B Dephosphorylates N-Ethylmaleimide-sensitive Factor and Elicits SNARE Complex Disassembly during Human Sperm Exocytosis. Journal of Biological Chemistry, 2009, 284, 10491-10503.	3.4	46
41	Epac Activates the Small G Proteins Rap1 and Rab3A to Achieve Exocytosis. Journal of Biological Chemistry, 2009, 284, 24825-24839.	3.4	84
42	Acrosomal Swelling and Membrane Docking Are Required for Hybrid Vesicle Formation During the Human Sperm Acrosome Reaction1. Biology of Reproduction, 2009, 81, 396-405.	2.7	88
43	Sperm from Hyh Mice Carrying a Point Mutation in Î±SNAP Have a Defect in Acrosome Reaction. PLoS ONE, 2009, 4, e4963.	2.5	24
44	Modelling phagosomal lipid networks that regulate actin assembly. BMC Systems Biology, 2008, 2, 107.	3.0	14
45	Membraneâ€permeant Rab3A triggers acrosomal exocytosis in living human sperm. FASEB Journal, 2007, 21, 4121-4130.	0.5	48
46	Complexin/Synaptotagmin Interplay Controls Acrosomal Exocytosis. Journal of Biological Chemistry, 2007, 282, 26335-26343.	3.4	67
47	Polymorphism of the FABP2 gene: a population frequency analysis and an association study with cardiovascular risk markers in Argentina. BMC Medical Genetics, 2007, 8, 39.	2.1	9
48	On the killing of mycobacteria by macrophages. Cellular Microbiology, 2007, 10, 071106215315001-???.	2.1	114
49	Acrosomal exocytosis, a special type of regulated secretion. IUBMB Life, 2007, 59, 286-292.	3.4	86
50	Development of a Premature Stop Codon-detection method based on a bacterial two-hybrid system. BMC Biotechnology, 2006, 6, 38.	3.3	6
51	Rab22a Regulates the Sorting of Transferrin to Recycling Endosomes. Molecular and Cellular Biology, 2006, 26, 2595-2614.	2.3	80
52	Calcium-induced Acrosomal Exocytosis Requires cAMP Acting through a Protein Kinase A-independent, Epac-mediated Pathway. Journal of Biological Chemistry, 2006, 281, 8656-8666.	3.4	81
53	More on sperm acrosomal exocytosis. BioEssays, 2005, 27, 232-232.	2.5	0
54	Î±-SNAP and NSF are required in a priming step during the human sperm acrosome reaction. Molecular Human Reproduction, 2005, 11, 43-51.	2.8	63

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55	Dynamics of SNARE Assembly and Disassembly during Sperm Acrosomal Exocytosis. PLoS Biology, 2005, 3, e323.	5.6	105
56	Overexpression of Rab22a hampers the transport between endosomes and the Golgi apparatus. Experimental Cell Research, 2005, 304, 339-353.	2.6	25
57	Cholesterol content regulates acrosomal exocytosis by enhancing Rab3A plasma membrane association. Developmental Biology, 2005, 285, 393-408.	2.0	57
58	Protein kinase C-mediated phosphorylation of the two polybasic regions of synaptotagmin VI regulates their function in acrosomal exocytosis. Developmental Biology, 2005, 285, 422-435.	2.0	27
59	Requirement of protein tyrosine kinase and phosphatase activities for human sperm exocytosis. Developmental Biology, 2004, 265, 399-415.	2.0	59
60	The Intraacrosomal Calcium Pool Plays a Direct Role in Acrosomal Exocytosis. Journal of Biological Chemistry, 2002, 277, 49326-49331.	3.4	117
61	SNARE Complex Assembly Is Required for Human Sperm Acrosome Reaction. Developmental Biology, 2002, 243, 326-338.	2.0	99
62	Rab3A and calmodulin regulate acrosomal exocytosis by mechanisms that do not require a direct interaction. FEBS Letters, 2002, 525, 126-130.	2.8	31
63	A PCR-mutagenesis strategy for rapid detection of mutations in codon 634 of the retproto-oncogene related to MEN 2A.. BMC Medical Genetics, 2002, 3, 4.	2.1	2
64	Synaptotagmin VI Participates in the Acrosome Reaction of Human Spermatozoa. Developmental Biology, 2001, 235, 521-529.	2.0	73
65	Recruitment of coat-protein-complex proteins on to phagosomal membranes is regulated by a brefeldin A-sensitive ADP-ribosylation factor. Biochemical Journal, 2001, 355, 409.	3.7	11
66	Rab22a affects the morphology and function of the endocytic pathway. Journal of Cell Science, 2001, 114, 4041-4049.	2.0	81
67	Calcium-triggered acrosomal exocytosis in human spermatozoa requires the coordinated activation of Rab3A and N-ethylmaleimide-sensitive factor. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9996-10001.	7.1	97
68	Rab3A Triggers the Acrosome Reaction in Permeabilized Human Spermatozoa1. Biology of Reproduction, 2000, 62, 1084-1089.	2.7	92
69	Intracellular Trafficking of Brucella abortus in J774 Macrophages. Infection and Immunity, 2000, 68, 4255-4263.	2.2	148
70	A phorbol ester-binding protein is required downstream of Rab5 in endosome fusion. FEBS Letters, 1998, 441, 373-378.	2.8	3
71	A Factor with a Zinc- and Phorbol Ester-Binding Domain Is Necessary for Endosome Fusion. Experimental Cell Research, 1997, 235, 28-34.	2.6	6
72	Inhibition of Early Endosome Fusion by Trypansom cruzi-Infected Macrophage Cytosol. Journal of Eukaryotic Microbiology, 1997, 44, 497-502.	1.7	7

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73	Characterization of Rab5:Q79L-Stimulated Endosome Fusion. Archives of Biochemistry and Biophysics, 1996, 326, 64-72.	3.0	59
74	Acrosome reaction stimulated by the GTP non-hydrolizable analogue GTPÎ³S is blocked by phospholipase A2inhibitors in human spermatozoa. Journal of Developmental and Physical Disabilities, 1996, 19, 248-252.	3.6	8
75	Acrosome content release in streptolysin O permeabilized mouse spermatozoa. Andrologia, 1996, 28, 21-26.	2.1	20
76	Affinity sites for Î²-glucuronidase on the surface of human spermatozoa. Andrologia, 1996, 28, 327-333.	2.1	9
77	Membrane trafficking along the phagocytic pathway. Trends in Cell Biology, 1995, 5, 100-104.	7.9	126
78	Phosphomannosyl receptors on the surface of spermatozoa from the cauda epididymis of the rat. Journal of Developmental and Physical Disabilities, 1995, 18, 113-119.	3.6	15
79	Reagents that activate GTP-binding proteins trigger the acrosome reaction in human spermatozoa. Journal of Developmental and Physical Disabilities, 1995, 18, 203-207.	3.6	11
80	Epididymal acid hydrolases in the annual reproductive cycle of two lizards. Comparative Biochemistry and Physiology A, Comparative Physiology, 1995, 112, 321-325.	0.6	6
81	In Vitro Reconstitution of Phagosome-Endosome Fusion: Evidence for Regulation by Heterotrimeric Gtpases. Archives of Biochemistry and Biophysics, 1995, 317, 337-342.	3.0	38
82	Inhibition of endocytic transport by aluminum fluoride implicates GTPases as regulators of endocytosis. Molecular Membrane Biology, 1994, 11, 93-100.	2.0	10
83	Effect of pH and ATP on the equilibrium density of lysosomes. Journal of Cellular Physiology, 1993, 156, 303-310.	4.1	2
84	[16]In vitro studies of endocytic vesicle fusion. Methods in Enzymology, 1993, 221, 207-222.	1.0	1
85	Inhibition of endosome fusion by phospholipase A2 (PLA2) inhibitors points to a role for PLA2 in endocytosis.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 10255-10259.	7.1	112
86	Identification of Proteins Involved in Endosome Fusion: Implications for Toxin Activity. , 1993, , 179-190.		0
87	Evidence of a role for heterotrimeric GTP-binding proteins in endosome fusion. Science, 1992, 255, 1695-1697.	12.6	141
88	[5] Reconstitution of endosome fusion: Identification of factors necessary for fusion competency. Methods in Enzymology, 1992, 219, 32-44.	1.0	17
89	Optimization of culture conditions for toxin production of type G Clostridium botulinum. Zentralblatt Fur Bakteriologie: International Journal of Medical Microbiology, 1992, 277, 161-169.	0.5	4
90	Alterations in the protein composition of maturing phagosomes.. Journal of Clinical Investigation, 1992, 90, 1978-1983.	8.2	183

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91	Enterotoxin Production in Two-Culture Media by Yersinia enterocolitica Isolated from Sausages, Porcine Ceca and Tongues in San Luis, Argentina. Journal of Food Protection, 1991, 54, 47-49.	1.7	1
92	In vitro depolymerization dynamics of brain endogenous microtubules. Journal of Cellular Biochemistry, 1990, 43, 281-291.	2.6	1
93	GTP gamma S stimulation of endosome fusion suggests a role for a GTP-binding protein in the priming of vesicles before fusion.. Molecular Biology of the Cell, 1989, 1, 113-124.	6.5	65
94	Regulatory role for GTP-binding proteins in endocytosis. Science, 1989, 244, 1475-1477.	12.6	143
95	Vesicle fusion following receptor-mediated endocytosis requires a protein active in Golgi transport. Nature, 1989, 339, 398-400.	27.8	254
96	Chapter 10 Reconstitution of Intracellular Vesicle Fusion in a Cell-Free System after Receptor-Mediated Endocytosis. Methods in Cell Biology, 1989, 31, 179-196.	1.1	6
97	Î²-Galactosidase from rat epididymal fluid is bound by a recognition site attached to membranes of the epididymis different from the phosphomannosyl receptor. Biochemical and Biophysical Research Communications, 1987, 143, 799-807.	2.1	12
98	Rapid in Vivo Assay Method for Type G Botulinal Toxin. Zentralblatt Fur Bakteriologie, Mikrobiologie, Und Hygiene Series A, Medical Microbiology, Infectious Diseases, Virology, Parasitology, 1987, 264, 78-83.	0.5	0
99	The Origin of Some Acid Hydrolases of the Fluid of the Rat Cauda Epididymidis. Journal of Andrology, 1985, 6, 243-245.	2.0	34
100	Two populations of acid hydrolase-containing particles in rat epididymis. Journal of Cellular Physiology, 1983, 117, 135-139.	4.1	6
101	Effect of androgens on the activity of acid hydrolases in rat epididymis. Journal of Developmental and Physical Disabilities, 1982, 5, 345-352.	3.6	18
102	Acid hydrolases in the epididymis of normal, castrated, vasectomized, cryptorchid and cryptepididymal rats. Journal of Developmental and Physical Disabilities, 1981, 4, 208-219.	3.6	14
103	The development of lysosomal apparatus. II. Incorporation, subcellular distribution, and intraparticulate hydrolysis of 131 I-albumin by liver of mice at perinatal stages. Journal of Cellular Physiology, 1981, 109, 281-287.	4.1	6