

# Luis S Mayorga

## List of Publications by Year in descending order

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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	Vesicle fusion following receptor-mediated endocytosis requires a protein active in Golgi transport. <i>Nature</i> , 1989, 339, 398-400.	27.8	254
2	Alterations in the protein composition of maturing phagosomes.. <i>Journal of Clinical Investigation</i> , 1992, 90, 1978-1983.	8.2	183
3	Intracellular Trafficking of <i>Brucella abortus</i> in J774 Macrophages. <i>Infection and Immunity</i> , 2000, 68, 4255-4263.	2.2	148
4	Regulatory role for GTP-binding proteins in endocytosis. <i>Science</i> , 1989, 244, 1475-1477.	12.6	143
5	Evidence of a role for heterotrimeric GTP-binding proteins in endosome fusion. <i>Science</i> , 1992, 255, 1695-1697.	12.6	141
6	Membrane trafficking along the phagocytic pathway. <i>Trends in Cell Biology</i> , 1995, 5, 100-104.	7.9	126
7	The Intraacrosomal Calcium Pool Plays a Direct Role in Acrosomal Exocytosis. <i>Journal of Biological Chemistry</i> , 2002, 277, 49326-49331.	3.4	117
8	On the killing of mycobacteria by macrophages. <i>Cellular Microbiology</i> , 2007, 10, 071106215315001-???	2.1	114
9	Inhibition of endosome fusion by phospholipase A2 (PLA2) inhibitors points to a role for PLA2 in endocytosis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 10255-10259.	7.1	112
10	Dynamics of SNARE Assembly and Disassembly during Sperm Acrosomal Exocytosis. <i>PLoS Biology</i> , 2005, 3, e323.	5.6	105
11	SNARE Complex Assembly Is Required for Human Sperm Acrosome Reaction. <i>Developmental Biology</i> , 2002, 243, 326-338.	2.0	99
12	Calcium-triggered acrosomal exocytosis in human spermatozoa requires the coordinated activation of Rab3A and N-ethylmaleimide-sensitive factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 9996-10001.	7.1	97
13	Rab3A Triggers the Acrosome Reaction in Permeabilized Human Spermatozoa1. <i>Biology of Reproduction</i> , 2000, 62, 1084-1089.	2.7	92
14	Acrosomal Swelling and Membrane Docking Are Required for Hybrid Vesicle Formation During the Human Sperm Acrosome Reaction1. <i>Biology of Reproduction</i> , 2009, 81, 396-405.	2.7	88
15	Acrosomal exocytosis, a special type of regulated secretion. <i>IUBMB Life</i> , 2007, 59, 286-292.	3.4	86
16	Epac Activates the Small G Proteins Rap1 and Rab3A to Achieve Exocytosis. <i>Journal of Biological Chemistry</i> , 2009, 284, 24825-24839.	3.4	84
17	Calcium-induced Acrosomal Exocytosis Requires cAMP Acting through a Protein Kinase A-independent, Epac-mediated Pathway. <i>Journal of Biological Chemistry</i> , 2006, 281, 8656-8666.	3.4	81
18	Rab22a affects the morphology and function of the endocytic pathway. <i>Journal of Cell Science</i> , 2001, 114, 4041-4049.	2.0	81

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19	Rab22a Regulates the Sorting of Transferrin to Recycling Endosomes. <i>Molecular and Cellular Biology</i> , 2006, 26, 2595-2614.	2.3	80
20	Synaptotagmin VI Participates in the Acrosome Reaction of Human Spermatozoa. <i>Developmental Biology</i> , 2001, 235, 521-529.	2.0	73
21	Complexin/Synaptotagmin Interplay Controls Acrosomal Exocytosis. <i>Journal of Biological Chemistry</i> , 2007, 282, 26335-26343.	3.4	67
22	GTP gamma S stimulation of endosome fusion suggests a role for a GTP-binding protein in the priming of vesicles before fusion.. <i>Molecular Biology of the Cell</i> , 1989, 1, 113-124.	6.5	65
23	Rab27 and Rab3 sequentially regulate human sperm dense-core granule exocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2057-66.	7.1	64
24	Î±-SNAP and NSF are required in a priming step during the human sperm acrosome reaction. <i>Molecular Human Reproduction</i> , 2005, 11, 43-51.	2.8	63
25	Rab22a controls MHC intracellular trafficking and antigen cross-presentation by dendritic cells. <i>EMBO Reports</i> , 2016, 17, 1753-1765.	4.5	61
26	Characterization of Rab5:Q79L-Stimulated Endosome Fusion. <i>Archives of Biochemistry and Biophysics</i> , 1996, 326, 64-72.	3.0	59
27	Requirement of protein tyrosine kinase and phosphatase activities for human sperm exocytosis. <i>Developmental Biology</i> , 2004, 265, 399-415.	2.0	59
28	Cholesterol content regulates acrosomal exocytosis by enhancing Rab3A plasma membrane association. <i>Developmental Biology</i> , 2005, 285, 393-408.	2.0	57
29	Membrane-permeant Rab3A triggers acrosomal exocytosis in living human sperm. <i>FASEB Journal</i> , 2007, 21, 4121-4130.	0.5	48
30	PTP1B Dephosphorylates N-Ethylmaleimide-sensitive Factor and Elicits SNARE Complex Disassembly during Human Sperm Exocytosis. <i>Journal of Biological Chemistry</i> , 2009, 284, 10491-10503.	3.4	46
31	RIM, Munc13, and Rab3A interplay in acrosomal exocytosis. <i>Experimental Cell Research</i> , 2012, 318, 478-488.	2.6	43
32	Role of human Hv1 channels in sperm capacitation and white blood cell respiratory burst established by a designed peptide inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11847-E11856.	7.1	43
33	In Vitro Reconstitution of Phagosome-Endosome Fusion: Evidence for Regulation by Heterotrimeric Gtpases. <i>Archives of Biochemistry and Biophysics</i> , 1995, 317, 337-342.	3.0	38
34	Diacylglycerol stimulates acrosomal exocytosis by feeding into a PKC- and PLD1-dependent positive loop that continuously supplies phosphatidylinositol 4,5-bisphosphate. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012, 1821, 1186-1199.	2.4	38
35	Î±-SNAP Prevents Docking of the Acrosome during Sperm Exocytosis because It Sequesters Monomeric Syntaxin. <i>PLoS ONE</i> , 2011, 6, e21925.	2.5	37
36	Calcineurin-mediated Dephosphorylation of Synaptotagmin VI Is Necessary for Acrosomal Exocytosis. <i>Journal of Biological Chemistry</i> , 2010, 285, 26269-26278.	3.4	36

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37	The Origin of Some Acid Hydrolases of the Fluid of the Rat Cauda Epididymidis. <i>Journal of Andrology</i> , 1985, 6, 243-245.	2.0	34
38	Recording and sorting live human sperm undergoing acrosome reaction. <i>Fertility and Sterility</i> , 2012, 97, 1309-1315.	1.0	34
39	The interfacial electrostatic potential modulates the insertion of cell-penetrating peptides into lipid bilayers. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5180-5189.	2.8	33
40	Kinetics of human sperm acrosomal exocytosis. <i>Molecular Human Reproduction</i> , 2015, 21, 244-254.	2.8	32
41	Rab3A and calmodulin regulate acrosomal exocytosis by mechanisms that do not require a direct interaction. <i>FEBS Letters</i> , 2002, 525, 126-130.	2.8	31
42	ADP Ribosylation Factor 6 (ARF6) Promotes Acrosomal Exocytosis by Modulating Lipid Turnover and Rab3A Activation. <i>Journal of Biological Chemistry</i> , 2015, 290, 9823-9841.	3.4	31
43	Sphingosine 1-Phosphate and Sphingosine Kinase Are Involved in a Novel Signaling Pathway Leading to Acrosomal Exocytosis. <i>Journal of Biological Chemistry</i> , 2010, 285, 16302-16314.	3.4	28
44	Protein kinase C-mediated phosphorylation of the two polybasic regions of synaptotagmin VI regulates their function in acrosomal exocytosis. <i>Developmental Biology</i> , 2005, 285, 422-435.	2.0	27
45	Overexpression of Rab22a hampers the transport between endosomes and the Golgi apparatus. <i>Experimental Cell Research</i> , 2005, 304, 339-353.	2.6	25
46	Acrosomal Swelling is Triggered by cAMP Downstream of the Opening of Store-Operated Calcium Channels During Acrosomal Exocytosis in Human Sperm1. <i>Biology of Reproduction</i> , 2016, 94, 57.	2.7	25
47	Direct activation of the proton channel by albumin leads to human sperm capacitation and sustained release of inflammatory mediators by neutrophils. <i>Nature Communications</i> , 2021, 12, 3855.	12.8	25
48	Sperm from Hyh Mice Carrying a Point Mutation in $\hat{I}\pm$ SNAP Have a Defect in Acrosome Reaction. <i>PLoS ONE</i> , 2009, 4, e4963.	2.5	24
49	GTP-bound Rab3A exhibits consecutive positive and negative roles during human sperm dense-core granule exocytosis. <i>Journal of Molecular Cell Biology</i> , 2014, 6, 286-298.	3.3	22
50	The Molecules of Sperm Exocytosis. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2016, 220, 71-92.	1.6	21
51	Acrosome content release in streptolysin O permeabilized mouse spermatozoa. <i>Andrologia</i> , 1996, 28, 21-26.	2.1	20
52	Munc18-1 Controls SNARE Protein Complex Assembly during Human Sperm Acrosomal Exocytosis. <i>Journal of Biological Chemistry</i> , 2012, 287, 43825-43839.	3.4	20
53	Effect of androgens on the activity of acid hydrolases in rat epididymis. <i>Journal of Developmental and Physical Disabilities</i> , 1982, 5, 345-352.	3.6	18
54	[5] Reconstitution of endosome fusion: Identification of factors necessary for fusion competency. <i>Methods in Enzymology</i> , 1992, 219, 32-44.	1.0	17

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55	Rab3A, a possible marker of cortical granules, participates in cortical granule exocytosis in mouse eggs. <i>Experimental Cell Research</i> , 2016, 347, 42-51.	2.6	16
56	Phosphomannosyl receptors on the surface of spermatozoa from the cauda epididymis of the rat. <i>Journal of Developmental and Physical Disabilities</i> , 1995, 18, 113-119.	3.6	15
57	Acid hydrolases in the epididymis of normal, castrated, vasectomized, cryptorchid and cryptepididymal rats. <i>Journal of Developmental and Physical Disabilities</i> , 1981, 4, 208-219.	3.6	14
58	Modelling phagosomal lipid networks that regulate actin assembly. <i>BMC Systems Biology</i> , 2008, 2, 107.	3.0	14
59	Perfringolysin O as a useful tool to study human sperm physiology. <i>Fertility and Sterility</i> , 2013, 99, 99-106.e2.	1.0	14
60	ESCRT (Endosomal Sorting Complex Required for Transport) Machinery Is Essential for Acrosomal Exocytosis in Human Sperm1. <i>Biology of Reproduction</i> , 2015, 93, 124.	2.7	14
61	A modelling study highlights the power of detecting and isolating asymptomatic or very mildly affected individuals for COVID-19 epidemic management. <i>BMC Public Health</i> , 2020, 20, 1809.	2.9	14
62	Rab22a: A novel regulator of immune functions. <i>Molecular Immunology</i> , 2019, 113, 87-92.	2.2	13
63	MARCKS Protein Is Phosphorylated and Regulates Calcium Mobilization during Human Acrosomal Exocytosis. <i>PLoS ONE</i> , 2013, 8, e64551.	2.5	13
64	Î2-Galactosidase from rat epididymal fluid is bound by a recognition site attached to membranes of the epididymis different from the phosphomannosyl receptor. <i>Biochemical and Biophysical Research Communications</i> , 1987, 143, 799-807.	2.1	12
65	The Synaptotagmin-1 C2B Domain Is a Key Regulator in the Stabilization of the Fusion Pore. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 7840-7851.	5.3	12
66	Reagents that activate GTP-binding proteins trigger the acrosome reaction in human spermatozoa. <i>Journal of Developmental and Physical Disabilities</i> , 1995, 18, 203-207.	3.6	11
67	Recruitment of coat-protein-complex proteins on to phagosomal membranes is regulated by a brefeldin A-sensitive ADP-ribosylation factor. <i>Biochemical Journal</i> , 2001, 355, 409.	3.7	11
68	Inhibition of endocytic transport by aluminum fluoride implicates GTPases as regulators of endocytosis. <i>Molecular Membrane Biology</i> , 1994, 11, 93-100.	2.0	10
69	Molecular Thermodynamics for Cell Biology as Taught with Boxes. <i>CBE Life Sciences Education</i> , 2012, 11, 31-38.	2.3	10
70	Polymorphism of the FABP2 gene: a population frequency analysis and an association study with cardiovascular risk markers in Argentina. <i>BMC Medical Genetics</i> , 2007, 8, 39.	2.1	9
71	Affinity sites for Î2-glucuronidase on the surface of human spermatozoa. <i>Andrologia</i> , 1996, 28, 327-333.	2.1	9
72	Differential requirement of Rab22a for the recruitment of ER-derived proteins to phagosomes and endosomes in dendritic cells. <i>Small GTPases</i> , 2020, 11, 1-9.	1.6	9

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73	Agents and networks to model the dynamic interactions of intracellular transport. <i>Cellular Logistics</i> , 2017, 7, e1392401.	0.9	9
74	Acrosome reaction stimulated by the GTP non-hydrolyzable analogue GTP $\gamma$ S is blocked by phospholipase A2inhibitors in human spermatozoa. <i>Journal of Developmental and Physical Disabilities</i> , 1996, 19, 248-252.	3.6	8
75	Surface charge density and fatty acids enhance the membrane permeation rate of CPP $\alpha$ cargo complexes. <i>Soft Matter</i> , 2020, 16, 9890-9898.	2.7	8
76	Asymmetric Cancer Hallmarks in Breast Tumors on Different Sides of the Body. <i>PLoS ONE</i> , 2016, 11, e0157416.	2.5	8
77	Inhibition of Early Endosome Fusion by Trypanosom cruzi-Infected Macrophage Cytosol. <i>Journal of Eukaryotic Microbiology</i> , 1997, 44, 497-502.	1.7	7
78	Small GTPases in Acrosomal Exocytosis. <i>Methods in Molecular Biology</i> , 2015, 1298, 141-160.	0.9	7
79	Reconstruction of endosomal organization and function by a combination of ODE and agent-based modeling strategies. <i>Biology Direct</i> , 2018, 13, 25.	4.6	7
80	Efficient Cholesterol Transport in Dendritic Cells Defines Optimal Exogenous Antigen Presentation and Toxoplasma gondii Proliferation. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 837574.	3.7	7
81	The development of lysosomal apparatus. II. Incorporation, subcellular distribution, and intraparticulate hydrolysis of 131 I-albumin by liver of mice at perinatal stages. <i>Journal of Cellular Physiology</i> , 1981, 109, 281-287.	4.1	6
82	Two populations of acid hydrolase-containing particles in rat epididymis. <i>Journal of Cellular Physiology</i> , 1983, 117, 135-139.	4.1	6
83	Chapter 10 Reconstitution of Intracellular Vesicle Fusion in a Cell-Free System after Receptor-Mediated Endocytosis. <i>Methods in Cell Biology</i> , 1989, 31, 179-196.	1.1	6
84	Epididymal acid hydrolases in the annual reproductive cycle of two lizards. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1995, 112, 321-325.	0.6	6
85	A Factor with a Zinc- and Phorbol Ester-Binding Domain Is Necessary for Endosome Fusion. <i>Experimental Cell Research</i> , 1997, 235, 28-34.	2.6	6
86	Development of a Premature Stop Codon-detection method based on a bacterial two-hybrid system. <i>BMC Biotechnology</i> , 2006, 6, 38.	3.3	6
87	Intratumor heterogeneity index of breast carcinomas based on DNA methylation profiles. <i>BMC Cancer</i> , 2019, 19, 328.	2.6	6
88	Epac activation induces an extracellular Ca <sup>2+</sup> independent Ca <sup>2+</sup> wave that triggers acrosome reaction in human spermatozoa. <i>Andrology</i> , 2021, 9, 1227-1241.	3.5	6
89	Modeling Fusion/Fission-Dependent Intracellular Transport of Fluid Phase Markers. <i>Traffic</i> , 2010, 11, 1001-1015.	2.7	5
90	Brucella alters endocytic pathway in J774 macrophages. <i>Virulence</i> , 2010, 1, 376-385.	4.4	5

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91	Enhanced Expansion and Reduced Kiss-and-Run Events in Fusion Pores Steered by Synaptotagmin-1 C2B Domains. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 4544-4554.	5.3	5
92	Optimization of culture conditions for toxin production of type G Clostridium botulinum. <i>Zentralblatt Fur Bakteriologie: International Journal of Medical Microbiology</i> , 1992, 277, 161-169.	0.5	4
93	A TEM-traceable physiologically functional gold nanoprobe that permeates non-endocytic cells. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 8075-8086.	6.7	4
94	A phorbol ester-binding protein is required downstream of Rab5 in endosome fusion. <i>FEBS Letters</i> , 1998, 441, 373-378.	2.8	3
95	Effect of pH and ATP on the equilibrium density of lysosomes. <i>Journal of Cellular Physiology</i> , 1993, 156, 303-310.	4.1	2
96	A PCR-mutagenesis strategy for rapid detection of mutations in codon 634 of the retproto-oncogene related to MEN 2A.. <i>BMC Medical Genetics</i> , 2002, 3, 4.	2.1	2
97	In vitro depolymerization dynamics of brain endogenous microtubules. <i>Journal of Cellular Biochemistry</i> , 1990, 43, 281-291.	2.6	1
98	Enterotoxin Production in Two-Culture Media by Yersinia enterocolitica Isolated from Sausages, Porcine Ceca and Tongues in San Luis, Argentina. <i>Journal of Food Protection</i> , 1991, 54, 47-49.	1.7	1
99	[16]In vitro studies of endocytic vesicle fusion. <i>Methods in Enzymology</i> , 1993, 221, 207-222.	1.0	1
100	From cartoons to quantitative models in Golgi transport. <i>Biology of the Cell</i> , 2021, 113, 146-164.	2.0	1
101	Rapid in Vivo Assay Method for Type G Botulinal Toxin. <i>Zentralblatt Fur Bakteriologie, Mikrobiologie, Und Hygiene Series A, Medical Microbiology, Infectious Diseases, Virology, Parasitology</i> , 1987, 264, 78-83.	0.5	0
102	More on sperm acrosomal exocytosis. <i>BioEssays</i> , 2005, 27, 232-232.	2.5	0
103	Identification of Proteins Involved in Endosome Fusion: Implications for Toxin Activity. , 1993, , 179-190.		0