

Roberto Jorge Botelho

List of Publications by Year in descending order

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62
papers

4,508
citations

126708

33
h-index

143772

57
g-index

72
all docs

72
docs citations

72
times ranked

4927
citing authors

#	ARTICLE	IF	CITATIONS
1	Phagosome maturation: aging gracefully. <i>Biochemical Journal</i> , 2002, 366, 689-704.	1.7	610
2	Localized Biphasic Changes in Phosphatidylinositol-4,5-Bisphosphate at Sites of Phagocytosis. <i>Journal of Cell Biology</i> , 2000, 151, 1353-1368.	2.3	489
3	Distinct roles of class I and class III phosphatidylinositol 3-kinases in phagosome formation and maturation. <i>Journal of Cell Biology</i> , 2001, 155, 19-26.	2.3	474
4	Phosphatidylinositol-4,5-bisphosphate hydrolysis directs actin remodeling during phagocytosis. <i>Journal of Cell Biology</i> , 2005, 169, 139-149.	2.3	227
5	Assembly of a Fab1 Phosphoinositide Kinase Signaling Complex Requires the Fig4 Phosphoinositide Phosphatase. <i>Molecular Biology of the Cell</i> , 2008, 19, 4273-4286.	0.9	120
6	Phosphatidylinositol 3,5-bisphosphate: No Longer the Poor PIP ₂ . <i>Traffic</i> , 2012, 13, 1-8.	1.3	120
7	Rab7 and Arl8 GTPases are Necessary for Lysosome Tubulation in Macrophages. <i>Traffic</i> , 2012, 13, 1667-1679.	1.3	118
8	Phagosome Maturation: A Few Bugs in the System. <i>Journal of Membrane Biology</i> , 2003, 193, 137-152.	1.0	115
9	Atg18 Regulates Organelle Morphology and Fab1 Kinase Activity Independent of Its Membrane Recruitment by Phosphatidylinositol 3,5-Bisphosphate. <i>Molecular Biology of the Cell</i> , 2007, 18, 4232-4244.	0.9	112
10	The Lysosome Signaling Platform: Adapting With the Times. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 113.	1.8	111
11	Phagosomal Maturation, Acidification, and Inhibition of Bacterial Growth in Nonphagocytic Cells Transfected with Fc γ RIIA Receptors. <i>Journal of Biological Chemistry</i> , 1999, 274, 28436-28444.	1.6	107
12	Critical role for scaffolding adapter Gab2 in Fc γ R-mediated phagocytosis. <i>Journal of Cell Biology</i> , 2003, 161, 1151-1161.	2.3	107
13	PIKfyve Inhibition Interferes with Phagosome and Endosome Maturation in Macrophages. <i>Traffic</i> , 2014, 15, 1143-1163.	1.3	98
14	Phagocytosis Enhances Lysosomal and Bactericidal Properties by Activating the Transcription Factor TFEB. <i>Current Biology</i> , 2016, 26, 1955-1964.	1.8	97
15	mTOR controls lysosome tubulation and antigen presentation in macrophages and dendritic cells. <i>Molecular Biology of the Cell</i> , 2016, 27, 321-333.	0.9	96
16	The Fab1 phosphatidylinositol kinase pathway in the regulation of vacuole morphology. <i>Current Opinion in Cell Biology</i> , 2005, 17, 402-408.	2.6	89
17	An electrostatic switch displaces phosphatidylinositol phosphate kinases from the membrane during phagocytosis. <i>Journal of Cell Biology</i> , 2009, 187, 701-714.	2.3	86
18	Lysosome enlargement during inhibition of the lipid kinase PIKfyve proceeds through lysosome coalescence. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	86

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19	The Phosphoinositide-Gated Lysosomal Ca ²⁺ Channel, TRPML1, Is Required for Phagosome Maturation. <i>Traffic</i> , 2015, 16, 1010-1026.	1.3	85
20	Phagocytosis. <i>Current Biology</i> , 2011, 21, R533-R538.	1.8	67
21	Lysosome Fission: Planning for an Exit. <i>Trends in Cell Biology</i> , 2019, 29, 635-646.	3.6	66
22	Iron overload inhibits late stage autophagic flux leading to insulin resistance. <i>EMBO Reports</i> , 2019, 20, e47911.	2.0	61
23	Lysosome remodelling and adaptation during phagocyte activation. <i>Cellular Microbiology</i> , 2018, 20, e12824.	1.1	56
24	Role of COPI in Phagosome Maturation. <i>Journal of Biological Chemistry</i> , 2000, 275, 15717-15727.	1.6	52
25	The acyltransferase LYCAT controls specific phosphoinositides and related membrane traffic. <i>Molecular Biology of the Cell</i> , 2017, 28, 161-172.	0.9	52
26	Phosphoinositide Diversity, Distribution, and Effector Function: Stepping Out of the Box. <i>BioEssays</i> , 2017, 39, 1700121.	1.2	50
27	Enhanced translation expands the endo-lysosome size and promotes antigen presentation during phagocyte activation. <i>PLoS Biology</i> , 2019, 17, e3000535.	2.6	49
28	Fc γ R-Mediated Phagocytosis Stimulates Localized Pinocytosis in Human Neutrophils. <i>Journal of Immunology</i> , 2002, 169, 4423-4429.	0.4	47
29	The Fab1/PIKfyve Phosphoinositide Phosphate Kinase Is Not Necessary to Maintain the pH of Lysosomes and of the Yeast Vacuole. <i>Journal of Biological Chemistry</i> , 2015, 290, 9919-9928.	1.6	46
30	Phagocytosis: Hungry, Hungry Cells. <i>Methods in Molecular Biology</i> , 2017, 1519, 1-16.	0.4	42
31	Phagosome resolution regenerates lysosomes and maintains the degradative capacity in phagocytes. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	40
32	Phosphoinositide Involvement in Phagocytosis and Phagosome Maturation. <i>Current Topics in Microbiology and Immunology</i> , 2004, 282, 1-30.	0.7	40
33	Selective regulation of clathrin-mediated epidermal growth factor receptor signaling and endocytosis by phospholipase C and calcium. <i>Molecular Biology of the Cell</i> , 2017, 28, 2802-2818.	0.9	39
34	pH of endophagosomes controls association of their membranes with Vps34 and PtdIns(3)P levels. <i>Journal of Cell Biology</i> , 2018, 217, 329-346.	2.3	39
35	Felic (CIP4b), a novel binding partner with the Src kinase Lyn and Cdc42, localizes to the phagocytic cup. <i>Blood</i> , 2003, 101, 2804-2809.	0.6	38
36	Accumulation of Diacylglycerol in the Chlamydia Inclusion Vacuole. <i>Journal of Biological Chemistry</i> , 2005, 280, 25210-25215.	1.6	38

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37	Localized Diacylglycerol-dependent Stimulation of Ras and Rap1 during Phagocytosis. <i>Journal of Biological Chemistry</i> , 2009, 284, 28522-28532.	1.6	34
38	The Lipid Kinase PIKfyve Coordinates the Neutrophil Immune Response through the Activation of the Rac GTPase. <i>Journal of Immunology</i> , 2017, 199, 2096-2105.	0.4	31
39	Biogenesis of lysosome-related organelles complex-1 (BORC) regulates late endosomal/lysosomal size through PIKfyve-dependent phosphatidylinositol(3,5)-bisphosphate. <i>Traffic</i> , 2019, 20, 674-696.	1.3	30
40	Changing phosphoinositides on the fly: how trafficking vesicles avoid an identity crisis. <i>BioEssays</i> , 2009, 31, 1127-1136.	1.2	28
41	Phagocytosis: what's on the menu?. <i>Biochemistry and Cell Biology</i> , 2019, 97, 21-29.	0.9	28
42	Vac14 Protein Multimerization Is a Prerequisite Step for Fab1 Protein Complex Assembly and Function. <i>Journal of Biological Chemistry</i> , 2013, 288, 9363-9372.	1.6	24
43	Phagosome maturation in macrophages: Eat, digest, adapt, and repeat. <i>Advances in Biological Regulation</i> , 2021, 82, 100832.	1.4	24
44	Indirect Role for COPI in the Completion of Fc γ 3 Receptor-mediated Phagocytosis. <i>Journal of Biological Chemistry</i> , 2001, 276, 18200-18208.	1.6	22
45	The genomic structure of SYCP3, a meiosis-specific gene encoding a protein of the chromosome core. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2001, 1518, 294-299.	2.4	21
46	Fyn and TOM1L1 are recruited to clathrin-coated pits and regulate Akt signaling. <i>Journal of Cell Biology</i> , 2022, 221, .	2.3	17
47	The big and intricate dreams of little organelles: Embracing complexity in the study of membrane traffic. <i>Traffic</i> , 2017, 18, 567-579.	1.3	11
48	Radiolabeling and Quantification of Cellular Levels of Phosphoinositides by High Performance Liquid Chromatography-coupled Flow Scintillation. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	10
49	Multiscale interactome analysis coupled with off-target drug predictions reveals drug repurposing candidates for human coronavirus disease. <i>Scientific Reports</i> , 2021, 11, 23315.	1.6	10
50	Lysophosphatidic acid represses autophagy in prostate carcinoma cells. <i>Biochemistry and Cell Biology</i> , 2019, 97, 387-396.	0.9	9
51	Reactive oxygen species prevent lysosome coalescence during PIKfyve inhibition. <i>PLoS ONE</i> , 2021, 16, e0259313.	1.1	9
52	The PH domain from the <i>Toxoplasma gondii</i> PH-containing protein-1 (TgPH1) serves as an ectopic reporter of phosphatidylinositol 3-phosphate in mammalian cells. <i>PLoS ONE</i> , 2018, 13, e0198454.	1.1	4
53	Aluminum hydroxide adjuvant diverts the uptake and trafficking of genetically detoxified pertussis toxin to lysosomes in macrophages. <i>Molecular Microbiology</i> , 2022, 117, 1173-1195.	1.2	3
54	Quantifying Phagocytosis by Immunofluorescence and Microscopy. <i>Methods in Molecular Biology</i> , 2017, 1519, 43-53.	0.4	2

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55	Aggregation and Size Attributes Analysis of Unadsorbed and Adjuvant-adsorbed Antigens using a Multispectral Imaging Flow Cytometer Platform. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 672-679.	1.6	2
56	Quantitative Immunofluorescence to Study Phagosome Maturation. <i>Methods in Molecular Biology</i> , 2017, 1519, 113-123.	0.4	1
57	Detection of Plasma Membrane Phosphoinositide Dynamics Using Genetically Encoded Fluorescent Protein Probes. <i>Methods in Molecular Biology</i> , 2021, 2251, 73-89.	0.4	1
58	The lipid acyltransferase LYCAT controls phosphatidylinositol 3,4,5-trisphosphate (PIP3) signaling. <i>FASEB Journal</i> , 2019, 33, 489.1.	0.2	1
59	BioEssays in phosphoinositides: A special collection. <i>BioEssays</i> , 2014, 36, 123-124.	1.2	0
60	An electrostatic switch displaces phosphatidylinositol phosphate kinases from the membrane during phagocytosis. <i>Journal of General Physiology</i> , 2010, 135, i1-i1.	0.9	0
61	Vac14 multimerization is required for Fab1 complex assembly and function. <i>FASEB Journal</i> , 2013, 27, 1019.5.	0.2	0
62	Inhibition of lipid kinase PIKfyve reveals a role for phosphatase Inpp4b in the regulation of PI(3)P-mediated lysosome dynamics through VPS34 activity. <i>Journal of Biological Chemistry</i> , 2022, 298, 102187.	1.6	0