

Roberto Jorge Botelho

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

4,508
citations

126907

33
h-index

144013

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. | 3.7 | 610 |
| 2 | Localized Biphasic Changes in Phosphatidylinositol-4,5-Bisphosphate at Sites of Phagocytosis. <i>Journal of Cell Biology</i> , 2000, 151, 1353-1368. | 5.2 | 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. | 5.2 | 474 |
| 4 | Phosphatidylinositol-4,5-bisphosphate hydrolysis directs actin remodeling during phagocytosis. <i>Journal of Cell Biology</i> , 2005, 169, 139-149. | 5.2 | 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. | 2.1 | 120 |
| 6 | Phosphatidylinositol 3,5-Bisphosphate: No Longer the Poor PIP ₂ . <i>Traffic</i> , 2012, 13, 1-8. | 2.7 | 120 |
| 7 | Rab7 and Arl8 GTPases are Necessary for Lysosome Tubulation in Macrophages. <i>Traffic</i> , 2012, 13, 1667-1679. | 2.7 | 118 |
| 8 | Phagosome Maturation: A Few Bugs in the System. <i>Journal of Membrane Biology</i> , 2003, 193, 137-152. | 2.1 | 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. | 2.1 | 112 |
| 10 | The Lysosome Signaling Platform: Adapting With the Times. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 113. | 3.7 | 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. | 3.4 | 107 |
| 12 | Critical role for scaffolding adapter Gab2 in Fc γ R-mediated phagocytosis. <i>Journal of Cell Biology</i> , 2003, 161, 1151-1161. | 5.2 | 107 |
| 13 | PIKfyve Inhibition Interferes with Phagosome and Endosome Maturation in Macrophages. <i>Traffic</i> , 2014, 15, 1143-1163. | 2.7 | 98 |
| 14 | Phagocytosis Enhances Lysosomal and Bactericidal Properties by Activating the Transcription Factor TFEB. <i>Current Biology</i> , 2016, 26, 1955-1964. | 3.9 | 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. | 2.1 | 96 |
| 16 | The Fab1 phosphatidylinositol kinase pathway in the regulation of vacuole morphology. <i>Current Opinion in Cell Biology</i> , 2005, 17, 402-408. | 5.4 | 89 |
| 17 | An electrostatic switch displaces phosphatidylinositol phosphate kinases from the membrane during phagocytosis. <i>Journal of Cell Biology</i> , 2009, 187, 701-714. | 5.2 | 86 |
| 18 | Lysosome enlargement during inhibition of the lipid kinase PIKfyve proceeds through lysosome coalescence. <i>Journal of Cell Science</i> , 2018, 131, . | 2.0 | 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. | 2.7 | 85 |
| 20 | Phagocytosis. <i>Current Biology</i> , 2011, 21, R533-R538. | 3.9 | 67 |
| 21 | Lysosome Fission: Planning for an Exit. <i>Trends in Cell Biology</i> , 2019, 29, 635-646. | 7.9 | 66 |
| 22 | Iron overload inhibits late stage autophagic flux leading to insulin resistance. <i>EMBO Reports</i> , 2019, 20, e47911. | 4.5 | 61 |
| 23 | Lysosome remodelling and adaptation during phagocyte activation. <i>Cellular Microbiology</i> , 2018, 20, e12824. | 2.1 | 56 |
| 24 | Role of COPI in Phagosome Maturation. <i>Journal of Biological Chemistry</i> , 2000, 275, 15717-15727. | 3.4 | 52 |
| 25 | The acyltransferase LYCAT controls specific phosphoinositides and related membrane traffic. <i>Molecular Biology of the Cell</i> , 2017, 28, 161-172. | 2.1 | 52 |
| 26 | Phosphoinositide Diversity, Distribution, and Effector Function: Stepping Out of the Box. <i>BioEssays</i> , 2017, 39, 1700121. | 2.5 | 50 |
| 27 | Enhanced translation expands the endo-lysosome size and promotes antigen presentation during phagocyte activation. <i>PLoS Biology</i> , 2019, 17, e3000535. | 5.6 | 49 |
| 28 | Fc γ R-Mediated Phagocytosis Stimulates Localized Pinocytosis in Human Neutrophils. <i>Journal of Immunology</i> , 2002, 169, 4423-4429. | 0.8 | 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. | 3.4 | 46 |
| 30 | Phagocytosis: Hungry, Hungry Cells. <i>Methods in Molecular Biology</i> , 2017, 1519, 1-16. | 0.9 | 42 |
| 31 | Phagosome resolution regenerates lysosomes and maintains the degradative capacity in phagocytes. <i>Journal of Cell Biology</i> , 2021, 220, . | 5.2 | 40 |
| 32 | Phosphoinositide Involvement in Phagocytosis and Phagosome Maturation. <i>Current Topics in Microbiology and Immunology</i> , 2004, 282, 1-30. | 1.1 | 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. | 2.1 | 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. | 5.2 | 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. | 1.4 | 38 |
| 36 | Accumulation of Diacylglycerol in the Chlamydia Inclusion Vacuole. <i>Journal of Biological Chemistry</i> , 2005, 280, 25210-25215. | 3.4 | 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. | 3.4 | 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. | 0.8 | 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. | 2.7 | 30 |
| 40 | Changing phosphoinositides on the fly: how trafficking vesicles avoid an identity crisis. <i>BioEssays</i> , 2009, 31, 1127-1136. | 2.5 | 28 |
| 41 | Phagocytosis: what's on the menu?. <i>Biochemistry and Cell Biology</i> , 2019, 97, 21-29. | 2.0 | 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. | 3.4 | 24 |
| 43 | Phagosome maturation in macrophages: Eat, digest, adapt, and repeat. <i>Advances in Biological Regulation</i> , 2021, 82, 100832. | 2.3 | 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. | 3.4 | 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, . | 5.2 | 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. | 2.7 | 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, , . | 0.3 | 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. | 3.3 | 10 |
| 50 | Lysophosphatidic acid represses autophagy in prostate carcinoma cells. <i>Biochemistry and Cell Biology</i> , 2019, 97, 387-396. | 2.0 | 9 |
| 51 | Reactive oxygen species prevent lysosome coalescence during PIKfyve inhibition. <i>PLoS ONE</i> , 2021, 16, e0259313. | 2.5 | 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. | 2.5 | 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. | 2.5 | 3 |
| 54 | Quantifying Phagocytosis by Immunofluorescence and Microscopy. <i>Methods in Molecular Biology</i> , 2017, 1519, 43-53. | 0.9 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 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. | 3.3 | 2 |
| 56 | Quantitative Immunofluorescence to Study Phagosome Maturation. <i>Methods in Molecular Biology</i> , 2017, 1519, 113-123. | 0.9 | 1 |
| 57 | Detection of Plasma Membrane Phosphoinositide Dynamics Using Genetically Encoded Fluorescent Protein Probes. <i>Methods in Molecular Biology</i> , 2021, 2251, 73-89. | 0.9 | 1 |
| 58 | The lipid acyltransferase LYCAT controls phosphatidylinositol 3,4,5-trisphosphate (PIP3) signaling. <i>FASEB Journal</i> , 2019, 33, 489.1. | 0.5 | 1 |
| 59 | BioEssays in phosphoinositides: A special collection. <i>BioEssays</i> , 2014, 36, 123-124. | 2.5 | 0 |
| 60 | An electrostatic switch displaces phosphatidylinositol phosphate kinases from the membrane during phagocytosis. <i>Journal of General Physiology</i> , 2010, 135, i1-i1. | 1.9 | 0 |
| 61 | Vac14 multimerization is required for Fab1 complex assembly and function. <i>FASEB Journal</i> , 2013, 27, 1019.5. | 0.5 | 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. | 3.4 | 0 |