

Sergio Grinstein

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

371 papers	34,968 citations	96 h-index	175 g-index
546 ext. papers	39,153 ext. citations	9.2 avg, IF	7.42 L-index

#	Paper	IF	Citations
371	Sensors and regulators of intracellular pH. <i>Nature Reviews Molecular Cell Biology</i> , 2010 , 11, 50-61	48.7	1379
370	Robust single-particle tracking in live-cell time-lapse sequences. <i>Nature Methods</i> , 2008 , 5, 695-702	21.6	1188
369	Membrane phosphatidylserine regulates surface charge and protein localization. <i>Science</i> , 2008 , 319, 210-3	33.3	749
368	The Unc93b1 mutation 3d disrupts exogenous antigen presentation and signaling via Toll-like receptors 3, 7 and 9. <i>Nature Immunology</i> , 2006 , 7, 156-64	19.1	650
367	Antimicrobial mechanisms of phagocytes and bacterial evasion strategies. <i>Nature Reviews Microbiology</i> , 2009 , 7, 355-66	22.2	640
366	Mechanisms of regulation of the Na ⁺ /H ⁺ exchanger. <i>Journal of Membrane Biology</i> , 1986 , 90, 1-12	2.3	628
365	The distribution and function of phosphatidylserine in cellular membranes. <i>Annual Review of Biophysics</i> , 2010 , 39, 407-27	21.1	623
364	The cell biology of phagocytosis. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2012 , 7, 61-98	34	581
363	Amiloride inhibits macropinocytosis by lowering submembranous pH and preventing Rac1 and Cdc42 signaling. <i>Journal of Cell Biology</i> , 2010 , 188, 547-63	7.3	563
362	Phagosome maturation: aging gracefully. <i>Biochemical Journal</i> , 2002 , 366, 689-704	3.8	537
361	The beta2-adrenergic receptor interacts with the Na ⁺ /H ⁺ -exchanger regulatory factor to control Na ⁺ /H ⁺ exchange. <i>Nature</i> , 1998 , 392, 626-30	50.4	532
360	Diversity of the mammalian sodium/proton exchanger SLC9 gene family. <i>Pflugers Archiv European Journal of Physiology</i> , 2004 , 447, 549-65	4.6	506
359	Scavenger receptors in homeostasis and immunity. <i>Nature Reviews Immunology</i> , 2013 , 13, 621-34	36.5	504
358	Na ⁺ /H ⁺ exchangers of mammalian cells. <i>Journal of Biological Chemistry</i> , 1997 , 272, 22373-6	5.4	470
357	LAMP proteins are required for fusion of lysosomes with phagosomes. <i>EMBO Journal</i> , 2007 , 26, 313-24	13	454
356	Activation of antibacterial autophagy by NADPH oxidases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6226-31	11.5	449
355	Localized biphasic changes in phosphatidylinositol-4,5-bisphosphate at sites of phagocytosis. <i>Journal of Cell Biology</i> , 2000 , 151, 1353-68	7.3	440

354	Distinct roles of class I and class III phosphatidylinositol 3-kinases in phagosome formation and maturation. <i>Journal of Cell Biology</i> , 2001 , 155, 19-25	7.3	439
353	Phagocytosis and innate immunity. <i>Current Opinion in Immunology</i> , 2002 , 14, 136-45	7.8	427
352	In vivo requirement for Atg5 in antigen presentation by dendritic cells. <i>Immunity</i> , 2010 , 32, 227-39	32.3	372
351	Calreticulin is essential for integrin-mediated calcium signalling and cell adhesion. <i>Nature</i> , 1997 , 386, 843-7	50.4	344
350	Antigen receptor-induced activation and cytoskeletal rearrangement are impaired in Wiskott-Aldrich syndrome protein-deficient lymphocytes. <i>Journal of Experimental Medicine</i> , 1999 , 190, 1329-42	16.6	325
349	Phagosomes fuse with late endosomes and/or lysosomes by extension of membrane protrusions along microtubules: role of Rab7 and RILP. <i>Molecular and Cellular Biology</i> , 2003 , 23, 6494-506	4.8	323
348	Natural resistance to intracellular infections: natural resistance-associated macrophage protein 1 (Nramp1) functions as a pH-dependent manganese transporter at the phagosomal membrane. <i>Journal of Experimental Medicine</i> , 2000 , 192, 1237-48	16.6	322
347	The pH of the secretory pathway: measurement, determinants, and regulation. <i>Physiology</i> , 2004 , 19, 207-15	9.8	315
346	The Syk protein tyrosine kinase is essential for Fcγ receptor signaling in macrophages and neutrophils. <i>Molecular and Cellular Biology</i> , 1998 , 18, 4209-20	4.8	314
345	The position of lysosomes within the cell determines their luminal pH. <i>Journal of Cell Biology</i> , 2016 , 212, 677-92	7.3	301
344	Phagocytosis: receptors, signal integration, and the cytoskeleton. <i>Immunological Reviews</i> , 2014 , 262, 193-215	11.3	300
343	The iron transport protein NRAMP2 is an integral membrane glycoprotein that colocalizes with transferrin in recycling endosomes. <i>Journal of Experimental Medicine</i> , 1999 , 189, 831-41	16.6	267
342	Focal exocytosis of VAMP3-containing vesicles at sites of phagosome formation. <i>Journal of Cell Biology</i> , 2000 , 149, 697-706	7.3	266
341	Receptor activation alters inner surface potential during phagocytosis. <i>Science</i> , 2006 , 313, 347-51	33.3	256
340	Modulation of Rab5 and Rab7 recruitment to phagosomes by phosphatidylinositol 3-kinase. <i>Molecular and Cellular Biology</i> , 2003 , 23, 2501-14	4.8	254
339	Elimination of host cell PtdIns(4,5)P(2) by bacterial SigD promotes membrane fission during invasion by Salmonella. <i>Nature Cell Biology</i> , 2002 , 4, 766-73	23.4	246
338	Restricted accumulation of phosphatidylinositol 3-kinase products in a plasmalemmal subdomain during Fc γ receptor-mediated phagocytosis. <i>Journal of Cell Biology</i> , 2001 , 153, 1369-80	7.3	244
337	Phagocytosis by neutrophils. <i>Microbes and Infection</i> , 2003 , 5, 1299-306	9.3	239

- 336 Quantitative and dynamic assessment of the contribution of the ER to phagosome formation. *Cell*, **2005**, 123, 157-70 56.2 230
- 335 Phosphatidylinositol polyphosphate binding to the mammalian septin H5 is modulated by GTP. *Current Biology*, **1999**, 9, 1458-67 6.3 225
- 334 High-resolution mapping reveals topologically distinct cellular pools of phosphatidylserine. *Journal of Cell Biology*, **2011**, 194, 257-75 7.3 214
- 333 Animal plasma membrane energization by proton-motive V-ATPases. *BioEssays*, **1999**, 21, 637-48 4.1 203
- 332 A cation counterflux supports lysosomal acidification. *Journal of Cell Biology*, **2010**, 189, 1171-86 7.3 197
- 331 Phosphatidylinositol-4,5-bisphosphate hydrolysis directs actin remodeling during phagocytosis. *Journal of Cell Biology*, **2005**, 169, 139-49 7.3 197
- 330 How nascent phagosomes mature to become phagolysosomes. *Trends in Immunology*, **2012**, 33, 397-405 14.4 195
- 329 Role of phospholipids in endocytosis, phagocytosis, and macropinocytosis. *Physiological Reviews*, **2013**, 93, 69-106 47.9 186
- 328 Host resistance to intracellular infection: mutation of natural resistance-associated macrophage protein 1 (Nrap1) impairs phagosomal acidification. *Journal of Experimental Medicine*, **1998**, 188, 351-64 16.6 180
- 327 Structure of LIMP-2 provides functional insights with implications for SR-BI and CD36. *Nature*, **2013**, 504, 172-6 50.4 177
- 326 Cytoskeletal control of CD36 diffusion promotes its receptor and signaling function. *Cell*, **2011**, 146, 593-606 56.2 176
- 325 Unconventional roles of the NADPH oxidase: signaling, ion homeostasis, and cell death. *Sciencels STKE: Signal Transduction Knowledge Environment*, **2007**, 2007, pe11 176
- 324 Caffeine and halothane sensitivity of intracellular Ca²⁺ release is altered by 15 calcium release channel (ryanodine receptor) mutations associated with malignant hyperthermia and/or central core disease. *Journal of Biological Chemistry*, **1997**, 272, 26332-9 5.4 175
- 323 Intracellular pH regulation by Na⁽⁺⁾/H⁽⁺⁾ exchange requires phosphatidylinositol 4,5-bisphosphate. *Journal of Cell Biology*, **2000**, 150, 213-24 7.3 175
- 322 The epithelial sodium-hydrogen antiporter Na⁺/H⁺ exchanger 3 accumulates and is functional in recycling endosomes. *Journal of Biological Chemistry*, **1998**, 273, 2035-43 5.4 171
- 321 Mechanism of acidification of the trans-Golgi network (TGN). In situ measurements of pH using retrieval of TGN38 and furin from the cell surface. *Journal of Biological Chemistry*, **1998**, 273, 2044-51 5.4 159
- 320 Regulation of endocytosis via the oxygen-sensing pathway. *Nature Medicine*, **2009**, 15, 319-24 50.5 158
- 319 SopB promotes phosphatidylinositol 3-phosphate formation on Salmonella vacuoles by recruiting Rab5 and Vps34. *Journal of Cell Biology*, **2008**, 182, 741-52 7.3 157

3 ¹⁸	Rho is required for the initiation of calcium signaling and phagocytosis by Fcγ receptors in macrophages. <i>Journal of Experimental Medicine</i> , 1997 , 186, 955-66	16.6	155
3 ¹⁷	Transmembrane ion fluxes during activation of human T lymphocytes: role of Ca ²⁺ , Na ⁺ /H ⁺ exchange and phospholipid turnover. <i>Immunological Reviews</i> , 1987 , 95, 59-87	11.3	153
3 ¹⁶	Lysosomal calcium homeostasis defects, not proton pump defects, cause endo-lysosomal dysfunction in PSEN-deficient cells. <i>Journal of Cell Biology</i> , 2012 , 198, 23-35	7.3	151
3 ¹⁵	Role of intracellular pH in proliferation, transformation, and apoptosis. <i>Journal of Bioenergetics and Biomembranes</i> , 1997 , 29, 393-9	3.7	150
3 ¹⁴	The life cycle of phagosomes: formation, maturation, and resolution. <i>Immunological Reviews</i> , 2016 , 273, 156-79	11.3	148
3 ¹³	The vacuolar-type H ⁺ -ATPase at a glance - more than a proton pump. <i>Journal of Cell Science</i> , 2014 , 127, 4987-93	5.3	148
3 ¹²	Chemotactic peptide N-formyl-met-leu-phe activation of p38 mitogen-activated protein kinase (MAPK) and MAPK-activated protein kinase-2 in human neutrophils. <i>Journal of Biological Chemistry</i> , 1997 , 272, 937-44	5.4	145
3 ¹¹	Phosphatidylserine is polarized and required for proper Cdc42 localization and for development of cell polarity. <i>Nature Cell Biology</i> , 2011 , 13, 1424-30	23.4	137
3 ¹⁰	Endosomal recycling of the Na ⁺ /H ⁺ exchanger NHE3 isoform is regulated by the phosphatidylinositol 3-kinase pathway. <i>Journal of Biological Chemistry</i> , 1998 , 273, 20828-36	5.4	136
3 ⁰⁹	Interleukin-2 induces proliferation of T lymphocyte mutants lacking protein kinase C. <i>Cell</i> , 1988 , 55, 91-100	10.2	136
3 ⁰⁸	Barriers to the free diffusion of proteins and lipids in the plasma membrane. <i>Journal of Cell Biology</i> , 2015 , 208, 259-71	7.3	135
3 ⁰⁷	Salmonella impairs RILP recruitment to Rab7 during maturation of invasion vacuoles. <i>Molecular Biology of the Cell</i> , 2004 , 15, 3146-54	3.5	134
3 ⁰⁶	Determinants of the phagosomal pH in neutrophils. <i>Journal of Biological Chemistry</i> , 2002 , 277, 6059-66	5.4	134
3 ⁰⁵	Lipid signaling and the modulation of surface charge during phagocytosis. <i>Immunological Reviews</i> , 2007 , 219, 17-36	11.3	132
3 ⁰⁴	A network of Rab GTPases controls phagosome maturation and is modulated by Salmonella enterica serovar Typhimurium. <i>Journal of Cell Biology</i> , 2007 , 176, 263-8	7.3	130
3 ⁰³	Regulation of phagosomal acidification. Differential targeting of Na ⁺ /H ⁺ exchangers, Na ⁺ /K ⁺ -ATPases, and vacuolar-type H ⁺ -atpases. <i>Journal of Biological Chemistry</i> , 1997 , 272, 29810-20	5.4	128
3 ⁰²	Identification of sites required for down-regulation of Na ⁺ /H ⁺ exchanger NHE3 activity by cAMP-dependent protein kinase. phosphorylation-dependent and -independent mechanisms. <i>Journal of Biological Chemistry</i> , 1997 , 272, 28672-9	5.4	127
3 ⁰¹	The ESAT-6/CFP-10 secretion system of Mycobacterium marinum modulates phagosome maturation. <i>Cellular Microbiology</i> , 2006 , 8, 1417-29	3.9	125

300	Interleukin-1 beta induction of c-fos and collagenase expression in articular chondrocytes: involvement of reactive oxygen species. <i>Journal of Cellular Biochemistry</i> , 1998 , 69, 19-29	4.7	123
299	The phosphoinositide-binding protein p40phox activates the NADPH oxidase during FcγRIIIA receptor-induced phagocytosis. <i>Journal of Experimental Medicine</i> , 2006 , 203, 1915-25	16.6	123
298	Induction of tyrosine phosphorylation and Na ⁺ /H ⁺ exchanger activation during shrinkage of human neutrophils. <i>Journal of Biological Chemistry</i> , 1997 , 272, 17303-11	5.4	122
297	The phosphoinositide phosphatase SopB manipulates membrane surface charge and trafficking of the Salmonella-containing vacuole. <i>Cell Host and Microbe</i> , 2010 , 7, 453-62	23.4	121
296	Constitutive internalization of cystic fibrosis transmembrane conductance regulator occurs via clathrin-dependent endocytosis and is regulated by protein phosphorylation. <i>Biochemical Journal</i> , 1997 , 328 (Pt 2), 353-61	3.8	120
295	Inhibition of phosphatidylinositol-4-phosphate 5-kinase Iα impairs localized actin remodeling and suppresses phagocytosis. <i>Journal of Biological Chemistry</i> , 2002 , 277, 43849-57	5.4	117
294	Contrasting phagosome pH regulation and maturation in human M1 and M2 macrophages. <i>Molecular Biology of the Cell</i> , 2014 , 25, 3330-41	3.5	116
293	Endogenous reactive oxygen intermediates activate tyrosine kinases in human neutrophils. <i>Journal of Biological Chemistry</i> , 1996 , 271, 1455-61	5.4	113
292	Regulation of vacuolar pH and its modulation by some microbial species. <i>Microbiology and Molecular Biology Reviews</i> , 2007 , 71, 452-62	13.2	112
291	Role of membrane potential in the regulation of lectin-induced calcium uptake. <i>Journal of Cellular Physiology</i> , 1984 , 121, 533-9	7	112
290	Phosphoinositide 3-kinase enables phagocytosis of large particles by terminating actin assembly through Rac/Cdc42 GTPase-activating proteins. <i>Nature Communications</i> , 2015 , 6, 8623	17.4	110
289	Integrins Form an Expanding Diffusional Barrier that Coordinates Phagocytosis. <i>Cell</i> , 2016 , 164, 128-140	56.2	110
288	Recruitment of OCRL and Inpp5B to phagosomes by Rab5 and APPL1 depletes phosphoinositides and attenuates Akt signaling. <i>Molecular Biology of the Cell</i> , 2012 , 23, 176-87	3.5	107
287	Salmonella redirects phagosomal maturation. <i>Current Opinion in Microbiology</i> , 2004 , 7, 78-84	7.9	105
286	Insulin activates a p21-activated kinase in muscle cells via phosphatidylinositol 3-kinase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 19664-7	5.4	103
285	Dynamic macrophage "probing" is required for the efficient capture of phagocytic targets. <i>Journal of Cell Biology</i> , 2010 , 191, 1205-18	7.3	102
284	Contribution of phosphatidylserine to membrane surface charge and protein targeting during phagosome maturation. <i>Journal of Cell Biology</i> , 2009 , 185, 917-28	7.3	102
283	Activation of proton pumping in human neutrophils occurs by exocytosis of vesicles bearing vacuolar-type H ⁺ -ATPases. <i>Journal of Biological Chemistry</i> , 1996 , 271, 15963-70	5.4	102

282	The apical Na(+)/H(+) exchanger isoform NHE3 is regulated by the actin cytoskeleton. <i>Journal of Biological Chemistry</i> , 1999 , 274, 29843-9	5.4	101
281	Phosphoinositides in phagocytosis and macropinocytosis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015 , 1851, 805-23	5	100
280	Determinants of the pH of the Golgi complex. <i>Journal of Biological Chemistry</i> , 2000 , 275, 21025-32	5.4	100
279	CD44 is a phagocytic receptor. <i>Blood</i> , 2006 , 107, 4149-58	2.2	99
278	Fcgamma-receptors induce Mac-1 (CD11b/CD18) mobilization and accumulation in the phagocytic cup for optimal phagocytosis. <i>Journal of Biological Chemistry</i> , 2003 , 278, 45720-9	5.4	99
277	Amiloride-sensitive Na ⁺ /H ⁺ exchange in human neutrophils: mechanism of activation by chemotactic factors. <i>Biochemical and Biophysical Research Communications</i> , 1984 , 122, 755-62	3.4	99
276	Subversion of phagocytosis for pathogen survival. <i>Cell Host and Microbe</i> , 2012 , 12, 419-31	23.4	96
275	Phagosomal maturation, acidification, and inhibition of bacterial growth in nonphagocytic cells transfected with FcgammaRIIA receptors. <i>Journal of Biological Chemistry</i> , 1999 , 274, 28436-44	5.4	96
274	Diversity and Versatility of Phagocytosis: Roles in Innate Immunity, Tissue Remodeling, and Homeostasis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017 , 7, 191	5.9	95
273	Critical role for scaffolding adapter Gab2 in Fc gamma R-mediated phagocytosis. <i>Journal of Cell Biology</i> , 2003 , 161, 1151-61	7.3	95
272	Transmembrane Pickets Connect Cyto- and Pericellular Skeletons Forming Barriers to Receptor Engagement. <i>Cell</i> , 2018 , 172, 305-317.e10	56.2	94
271	Golgi alkalization by the papillomavirus E5 oncoprotein. <i>Journal of Cell Biology</i> , 2000 , 148, 305-15	7.3	94
270	Emerging roles of alkali cation/proton exchangers in organellar homeostasis. <i>Current Opinion in Cell Biology</i> , 2007 , 19, 483-92	9	93
269	Lipid metabolism and dynamics during phagocytosis. <i>Current Opinion in Cell Biology</i> , 2006 , 18, 429-37	9	93
268	Differential role of actin, clathrin, and dynamin in Fc gamma receptor-mediated endocytosis and phagocytosis. <i>Journal of Biological Chemistry</i> , 2003 , 278, 3331-8	5.4	93
267	Intracellular survival of <i>Burkholderia cenocepacia</i> in macrophages is associated with a delay in the maturation of bacteria-containing vacuoles. <i>Cellular Microbiology</i> , 2007 , 9, 40-53	3.9	88
266	The epithelial Na(+)/H(+) exchanger, NHE3, is internalized through a clathrin-mediated pathway. <i>Journal of Biological Chemistry</i> , 1999 , 274, 37551-8	5.4	88
265	Functional expression of Nramp1 in vitro in the murine macrophage line RAW264.7. <i>Infection and Immunity</i> , 1999 , 67, 2225-32	3.7	87

264	Dynamic traffic through the recycling compartment couples the metal transporter Nramp2 (DMT1) with the transferrin receptor. <i>Journal of Biological Chemistry</i> , 2003 , 278, 25548-57	5.4	84
263	Mitogens trigger a calcium-independent signal for proliferation in phorbol-ester-treated lymphocytes. <i>Nature</i> , 1985 , 315, 419-20	50.4	84
262	Multimolecular signaling complexes enable Syk-mediated signaling of CD36 internalization. <i>Developmental Cell</i> , 2013 , 24, 372-83	10.2	83
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260	Alternative mechanisms of vacuolar acidification in H(+)-ATPase-deficient yeast. <i>Journal of Biological Chemistry</i> , 1999 , 274, 37270-9	5.4	83
259	Expression and subcellular localization of NRAMP1 in human neutrophil granules. <i>Blood</i> , 2002 , 100, 268-75	5.5	82
258	Regulation of cytoplasmic pH in phagocytic cell function and dysfunction. <i>Clinical Biochemistry</i> , 1991 , 24, 241-7	3.5	82
257	Calcium-sensing receptors signal constitutive macropinocytosis and facilitate the uptake of NOD2 ligands in macrophages. <i>Nature Communications</i> , 2016 , 7, 11284	17.4	81
256	Acquisition of Hrs, an essential component of phagosomal maturation, is impaired by mycobacteria. <i>Molecular and Cellular Biology</i> , 2004 , 24, 4593-604	4.8	81
255	A noninvasive fluorimetric procedure for measurement of membrane potential. Quantification of the NADPH oxidase-induced depolarization in activated neutrophils. <i>Journal of Biological Chemistry</i> , 1999 , 274, 26098-104	5.4	81
254	Regulation of cytoplasmic pH in osteoclasts. Contribution of proton pumps and a proton-selective conductance. <i>Journal of Biological Chemistry</i> , 1995 , 270, 2203-12	5.4	81
253	Characterization of the role for calcium influx in mitogen-induced triggering of human T cells. Identification of calcium-dependent and calcium-independent signals. <i>European Journal of Immunology</i> , 1986 , 16, 907-12	6.1	81
252	Diacylglycerol kinases terminate diacylglycerol signaling during the respiratory burst leading to heterogeneous phagosomal NADPH oxidase activation.. <i>Journal of Biological Chemistry</i> , 2014 , 289, 48135-4	5.4	78
251	Contrasting requirements for ubiquitylation during Fc receptor-mediated endocytosis and phagocytosis. <i>EMBO Journal</i> , 2002 , 21, 251-8	13	78
250	Identification of glucagon-like peptide-2 (GLP-2)-activated signaling pathways in baby hamster kidney fibroblasts expressing the rat GLP-2 receptor. <i>Journal of Biological Chemistry</i> , 1999 , 274, 30459-67	5.4	78
249	Temporal production of the signaling lipid phosphatidic acid by phospholipase D2 determines the output of extracellular signal-regulated kinase signaling in cancer cells. <i>Molecular and Cellular Biology</i> , 2014 , 34, 84-95	4.8	77
248	Syntaxins 13 and 7 function at distinct steps during phagocytosis. <i>Journal of Immunology</i> , 2002 , 169, 3250-6	5.3	75
247	Volume regulation by human lymphocytes: characterization of the ionic basis for regulatory volume decrease. <i>Journal of Cellular Physiology</i> , 1982 , 112, 189-96	7	75

246	The phosphatidylserine receptor TIM4 utilizes integrins as coreceptors to effect phagocytosis. <i>Molecular Biology of the Cell</i> , 2014 , 25, 1511-22	3.5	74
245	Phosphatidic acid is required for the constitutive ruffling and macropinocytosis of phagocytes. <i>Molecular Biology of the Cell</i> , 2013 , 24, 1700-12, S1-7	3.5	74
244	Pathogen destruction versus intracellular survival: the role of lipids as phagosomal fate determinants. <i>Journal of Clinical Investigation</i> , 2008 , 118, 2002-11	15.9	74
243	Actin cytoskeleton reorganization by Syk regulates Fcγ receptor responsiveness by increasing its lateral mobility and clustering. <i>Developmental Cell</i> , 2014 , 29, 534-546	10.2	73
242	Regulation from within: the cytoskeleton in transmembrane signaling. <i>Trends in Cell Biology</i> , 2012 , 22, 515-26	18.3	73
241	CD36 and TLR interactions in inflammation and phagocytosis: implications for malaria. <i>Journal of Immunology</i> , 2009 , 183, 6452-9	5.3	73
240	Alteration of epithelial structure and function associated with PtdIns(4,5)P ₂ degradation by a bacterial phosphatase. <i>Journal of General Physiology</i> , 2007 , 129, 267-83	3.4	72
239	Class I and class III phosphoinositide 3-kinases are required for actin polymerization that propels phagosomes. <i>Journal of Cell Biology</i> , 2010 , 191, 999-1012	7.3	71
238	An electrostatic switch displaces phosphatidylinositol phosphate kinases from the membrane during phagocytosis. <i>Journal of Cell Biology</i> , 2009 , 187, 701-14	7.3	71
237	Na ⁺ /H ⁺ exchangers. <i>Comprehensive Physiology</i> , 2011 , 1, 2083-100	7.7	71
236	Fusion, fission, and secretion during phagocytosis. <i>Physiology</i> , 2007 , 22, 366-72	9.8	70
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234	In situ measurements of the pH of mammalian peroxisomes using the fluorescent protein pHluorin. <i>Journal of Biological Chemistry</i> , 2001 , 276, 48748-53	5.4	69
233	Bromo-A23187: a nonfluorescent calcium ionophore for use with fluorescent probes. <i>Analytical Biochemistry</i> , 1985 , 146, 349-52	3.1	69
232	Distinct structural domains confer cAMP sensitivity and ATP dependence to the Na ⁺ /H ⁺ exchanger NHE3 isoform. <i>Journal of Biological Chemistry</i> , 1996 , 271, 3590-9	5.4	68
231	Nramp1 modifies the fusion of <i>Salmonella typhimurium</i> -containing vacuoles with cellular endomembranes in macrophages. <i>Journal of Biological Chemistry</i> , 2002 , 277, 2258-65	5.4	68
230	Deficiency of Src homology 2-containing phosphatase 1 results in abnormalities in murine neutrophil function: studies in moth-eaten mice. <i>Journal of Immunology</i> , 2000 , 165, 5847-59	5.3	68
229	Activation of P2X(7) receptor by ATP plays an important role in regulating inflammatory responses during acute viral infection. <i>PLoS ONE</i> , 2012 , 7, e35812	3.7	67

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227	Cell swelling following recovery from acidification in C6 glioma cells: an in vitro model of postischemic brain edema. <i>Brain Research</i> , 1987 , 435, 138-46	3.7	67
226	Uptake of extracellular Ca ²⁺ and not recruitment from internal stores is essential for T lymphocyte proliferation. <i>European Journal of Immunology</i> , 1988 , 18, 917-22	6.1	67
225	Cholesterol accumulation by macrophages impairs phagosome maturation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 35745-55	5.4	66
224	Localized exocytosis of primary (lysosomal) granules during phagocytosis: role of Ca ²⁺ -dependent tyrosine phosphorylation and microtubules. <i>Journal of Immunology</i> , 2002 , 168, 5287-96	5.3	66
223	Volume-regulating behavior of human platelets. <i>Journal of Cellular Physiology</i> , 1987 , 131, 354-63	7	66
222	Bruton's Tyrosine Kinase (BTK) and Vav1 contribute to Dectin1-dependent phagocytosis of <i>Candida albicans</i> in macrophages. <i>PLoS Pathogens</i> , 2013 , 9, e1003446	7.6	64
221	Multiple modes of regulation of Na ⁺ /H ⁺ exchangers. <i>Annals of the New York Academy of Sciences</i> , 2002 , 976, 248-58	6.5	64
220	The role of the C terminus and Na ⁺ /H ⁺ exchanger regulatory factor in the functional expression of cystic fibrosis transmembrane conductance regulator in nonpolarized cells and epithelia. <i>Journal of Biological Chemistry</i> , 2003 , 278, 22079-89	5.4	64
219	Lipid-gated monovalent ion fluxes regulate endocytic traffic and support immune surveillance. <i>Science</i> , 2020 , 367, 301-305	33.3	64
218	Evidence for a fence that impedes the diffusion of phosphatidylinositol 4,5-bisphosphate out of the forming phagosomes of macrophages. <i>Molecular Biology of the Cell</i> , 2011 , 22, 3498-507	3.5	63
217	Membrane dynamics in phagocytosis. <i>Seminars in Immunology</i> , 2001 , 13, 357-64	10.7	63
216	Topological analysis of NHE1, the ubiquitous Na ⁺ /H ⁺ exchanger using chymotryptic cleavage. <i>American Journal of Physiology - Cell Physiology</i> , 1998 , 275, C431-9	5.4	63
215	Volume regulation in leukocytes: requirement for an intact cytoskeleton. <i>Journal of Cellular Physiology</i> , 1995 , 163, 96-104	7	63
214	Toll-like receptor ligands sensitize B-cell receptor signalling by reducing actin-dependent spatial confinement of the receptor. <i>Nature Communications</i> , 2015 , 6, 6168	17.4	62
213	Enteropathogenic <i>Escherichia coli</i> subverts phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate upon epithelial cell infection. <i>Molecular Biology of the Cell</i> , 2009 , 20, 544-55	3.5	62
212	Transmembrane disposition of the phlorizin binding protein of intestinal brush borders. <i>FEBS Letters</i> , 1979 , 99, 91-6	3.8	62
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