Joel A Swanson

List of Publications by Year in Descending Order

115 papers	12,506 citations	55 h-index	111 g-index
135 ext. papers	13,489 ext. citations	9.1 avg, IF	6.49 L-index

#	Paper	IF	Citations
115	Roles for 3TPhosphoinositides in Macropinocytosis.. *Sub-Cellular Biochemistry*, **2022**, 98, 119-141	5.5	0
114	The structural dynamics of macropinosome formation and PI3-kinase-mediated sealing revealed by lattice light sheet microscopy. *Nature Communications*, **2021**, 12, 4838	17.4	5
113	Alveolar macrophage-derived extracellular vesicles inhibit endosomal fusion of influenza virus. *EMBO Journal*, **2020**, 39, e105057	13	4
112	Macropinocytosis drives T cell growth by sustaining the activation of mTORC1. *Nature Communications*, **2020**, 11, 180	17.4	22
111	Macropinosomes as units of signal transduction. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20180157	5.8	16
110	The breadth of macropinocytosis research. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20180146	5.8	25
109	CRISPR knockout screen implicates three genes in lysosome function. *Scientific Reports*, **2019**, 9, 9609	4.9	11
108	High Cholesterol at the Heart of Phagolysosomal Damage. *Cell Metabolism*, **2018**, 27, 487-488	24.6	4
107	Loss of PTEN promotes formation of signaling-capable clathrin-coated pits. *Journal of Cell Science*, **2018**, 131,	5.3	21
106	Reverse Engineering the Intracellular Self-Assembly of a Functional Mechanopharmaceutical Device. *Scientific Reports*, **2018**, 8, 2934	4.9	10
105	Renitence vacuoles facilitate protection against phagolysosomal damage in activated macrophages. *Molecular Biology of the Cell*, **2018**, 29, 657-668	3.5	5
104	Host cell perforation by listeriolysin O (LLO) activates a Ca-dependent cPKC/Rac1/Arp2/3 signaling pathway that promotes internalization independently of membrane resealing. *Molecular Biology of the Cell*, **2018**, 29, 270-284	3.5	19
103	Macropinocytosis, mTORC1 and cellular growth control. *Cellular and Molecular Life Sciences*, **2018**, 75, 1227-1239	10.3	53
102	Dorsal ruffles enhance activation of Akt by growth factors. *Journal of Cell Science*, **2018**, 131,	5.3	15
101	CXCL12-induced macropinocytosis modulates two distinct pathways to activate mTORC1 in macrophages. *Journal of Leukocyte Biology*, **2017**, 101, 683-692	6.5	27
100	Mechanisms and modulation of microvesicle uptake in a model of alveolar cell communication. *Journal of Biological Chemistry*, **2017**, 292, 20897-20910	5.4	50
99	Differential signaling during macropinocytosis in response to M-CSF and PMA in macrophages. *Frontiers in Physiology*, **2015**, 6, 8	4.6	38

98	Transcellular delivery of vesicular SOCS proteins from macrophages to epithelial cells blunts inflammatory signaling. *Journal of Experimental Medicine*, **2015**, 212, 729-42	16.6	138
97	Pulse-shaping based two-photon FRET stoichiometry. *Optics Express*, **2015**, 23, 3353-72	3.3	5
96	Growth factor signaling to mTORC1 by amino acid-laden macropinosomes. *Journal of Cell Biology*, **2015**, 211, 159-72	7.3	59
95	Cryptococcus neoformans-induced macrophage lysosome damage crucially contributes to fungal virulence. *Journal of Immunology*, **2015**, 194, 2219-31	5.3	51
94	Transcellular delivery of vesicular SOCS proteins from macrophages to epithelial cells blunts inflammatory signaling. *Journal of Cell Biology*, **2015**, 209, 2091OIA65	7.3	
93	Phosphoinositides and engulfment. *Cellular Microbiology*, **2014**, 16, 1473-83	3.9	24
92	Signaling for Phagocytosis **2014**, 193-P2		
91	N-way FRET microscopy of multiple protein-protein interactions in live cells. *PLoS ONE*, **2013**, 8, e64760	3.7	40
90	Two-photon imaging of multiple fluorescent proteins by phase-shaping and linear unmixing with a single broadband laser. *Optics Express*, **2013**, 21, 17256-64	3.3	13
89	The noodle defense. *Journal of Cell Biology*, **2013**, 203, 871-3	7.3	3
88	Inducible renitence limits Listeria monocytogenes escape from vacuoles in macrophages. *Journal of Immunology*, **2012**, 189, 4488-95	5.3	22
87	Pulse-shaping multiphoton FRET microscopy. *Proceedings of SPIE*, **2012**, 8226,	1.7	2
86	A growth factor signaling cascade confined to circular ruffles in macrophages. *Biology Open*, **2012**, 1, 754-60	2.2	53
85	Detection of prokaryotic mRNA signifies microbial viability and promotes immunity. *Nature*, **2011**, 474, 385-9	50.4	300
84	Coordination of the Rab5 cycle on macropinosomes. *Traffic*, **2011**, 12, 1911-22	5.7	36
83	Ruffles limit diffusion in the plasma membrane during macropinosome formation. *Journal of Cell Science*, **2011**, 124, 4106-14	5.3	40
82	Listeria monocytogenes exploits cystic fibrosis transmembrane conductance regulator (CFTR) to escape the phagosome. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1633-8	11.5	55
81	Technical advance: Caspase-1 activation and IL-1 release correlate with the degree of lysosome damage, as illustrated by a novel imaging method to quantify phagolysosome damage. *Journal of Leukocyte Biology*, **2010**, 88, 813-22	6.5	27

80	Coordination of Fc receptor signaling regulates cellular commitment to phagocytosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 19332-7	11.5	61
79	A Cdc42 activation cycle coordinated by PI 3-kinase during Fc receptor-mediated phagocytosis. *Molecular Biology of the Cell*, **2010**, 21, 470-80	3.5	77
78	Transient increase in cyclic AMP localized to macrophage phagosomes. *PLoS ONE*, **2010**, 5, e13962	3.7	7
77	Sequential signaling in plasma-membrane domains during macropinosome formation in macrophages. *Journal of Cell Science*, **2009**, 122, 3250-61	5.3	118
76	Actin and phosphoinositide recruitment to fully formed Candida albicans phagosomes in mouse macrophages. *Journal of Innate Immunity*, **2009**, 1, 244-53	6.9	16
75	Live cell fluorescence microscopy to study microbial pathogenesis. *Cellular Microbiology*, **2009**, 11, 540-50	3.9	21
74	Shaping cups into phagosomes and macropinosomes. *Nature Reviews Molecular Cell Biology*, **2008**, 9, 639-49	48.7	648
73	Three-dimensional FRET reconstruction microscopy for analysis of dynamic molecular interactions in live cells. *Biophysical Journal*, **2008**, 95, 400-18	2.9	34
72	SHIP-1 increases early oxidative burst and regulates phagosome maturation in macrophages. *Journal of Immunology*, **2008**, 180, 7497-505	5.3	38
71	The role of the activated macrophage in clearing Listeria monocytogenes nbsp infection. *Frontiers in Bioscience - Landmark*, **2007**, 12, 2683-2692	2.8	27
70	A FRET analysis to unravel the role of cholesterol in Rac1 and PI 3-kinase activation in the InlB/Met signalling pathway. *Cellular Microbiology*, **2007**, 9, 790-803	3.9	56
69	Localization of protein kinase C epsilon to macrophage vacuoles perforated by Listeria monocytogenes cytolysin. *Cellular Microbiology*, **2007**, 9, 1695-704	3.9	19
68	Adapter protein SH2-Bbeta stimulates actin-based motility of Listeria monocytogenes in a vasodilator-stimulated phosphoprotein (VASP)-dependent fashion. *Infection and Immunity*, **2007**, 75, 3581-93	3.7	7
67	Bnip3 mediates the hypoxia-induced inhibition on mammalian target of rapamycin by interacting with Rheb. *Journal of Biological Chemistry*, **2007**, 282, 35803-13	5.4	195
66	Differential association of phosphatidylinositol 3-kinase, SHIP-1, and PTEN with forming phagosomes. *Molecular Biology of the Cell*, **2007**, 18, 2463-72	3.5	75
65	Kinesin-1 structural organization and conformational changes revealed by FRET stoichiometry in live cells. *Journal of Cell Biology*, **2007**, 176, 51-63	7.3	104
64	The role of the activated macrophage in clearing Listeria monocytogenes infection. *Frontiers in Bioscience - Landmark*, **2007**, 12, 2683-92	2.8	62
63	Three-dimensional FRET microscopy **2006**,		1

62	Cytolysin-dependent delay of vacuole maturation in macrophages infected with Listeria monocytogenes. *Cellular Microbiology*, **2006**, 8, 107-19	3.9	108
61	Membrane perforations inhibit lysosome fusion by altering pH and calcium in Listeria monocytogenes vacuoles. *Cellular Microbiology*, **2006**, 8, 781-92	3.9	135
60	A phosphatidylinositol-3-kinase-dependent signal transition regulates ARF1 and ARF6 during Fcgamma receptor-mediated phagocytosis. *PLoS Biology*, **2006**, 4, e162	9.7	103
59	Protection from anthrax toxin-mediated killing of macrophages by the combined effects of furin inhibitors and chloroquine. *Antimicrobial Agents and Chemotherapy*, **2005**, 49, 3875-82	5.9	32
58	The coordination of signaling during Fc receptor-mediated phagocytosis. *Journal of Leukocyte Biology*, **2004**, 76, 1093-103	6.5	229
57	Cdc42, Rac1, and Rac2 display distinct patterns of activation during phagocytosis. *Molecular Biology of the Cell*, **2004**, 15, 3509-19	3.5	287
56	The uniformity of phagosome maturation in macrophages. *Journal of Cell Biology*, **2004**, 164, 185-94	7.3	144
55	Phosphoinositide-3-kinase-independent contractile activities associated with Fcgamma-receptor-mediated phagocytosis and macropinocytosis in macrophages. *Journal of Cell Science*, **2003**, 116, 247-57	5.3	161
54	Localized reactive oxygen and nitrogen intermediates inhibit escape of Listeria monocytogenes from vacuoles in activated macrophages. *Journal of Immunology*, **2003**, 171, 5447-53	5.3	91
53	Drug delivery strategy utilizing conjugation via reversible disulfide linkages: role and site of cellular reducing activities. *Advanced Drug Delivery Reviews*, **2003**, 55, 199-215	18.5	1173
52	Determination of the physical environment within the Chlamydia trachomatis inclusion using ion-selective ratiometric probes. *Cellular Microbiology*, **2002**, 4, 273-83	3.9	62
51	The Listeria monocytogenes hemolysin has an acidic pH optimum to compartmentalize activity and prevent damage to infected host cells. *Journal of Cell Biology*, **2002**, 156, 1029-38	7.3	220
50	Dynamics of cytoskeletal proteins during Fcgamma receptor-mediated phagocytosis in macrophages. *Molecular Biology of the Cell*, **2002**, 13, 402-11	3.5	123
49	1 Ratiometric fluorescence microscopy. *Methods in Microbiology*, **2002**, 31, 1-18	2.8	7
48	Fluorescence resonance energy transfer-based stoichiometry in living cells. *Biophysical Journal*, **2002**, 83, 3652-64	2.9	296
47	pH-dependent regulation of lysosomal calcium in macrophages. *Journal of Cell Science*, **2002**, 115, 599-607	5.3	356
46	pH-dependent regulation of lysosomal calcium in macrophages. *Journal of Cell Science*, **2002**, 115, 599-607	5.3	321
45	Calcium spikes in activated macrophages during Fcgamma receptor-mediated phagocytosis. *Journal of Leukocyte Biology*, **2002**, 72, 677-84	6.5	39

44	Proteolytic activation of receptor-bound anthrax protective antigen on macrophages promotes its internalization. *Cellular Microbiology*, **2000**, 2, 251-8	3.9	92
43	Early Bacillus anthracis-macrophage interactions: intracellular survival survival and escape. *Cellular Microbiology*, **2000**, 2, 453-63	3.9	199
42	Ratiometric and fluorescence-lifetime-based biosensors incorporating cytochrome cTand the detection of extra- and intracellular macrophage nitric oxide. *Analytical Chemistry*, **1999**, 71, 1767-72	7.8	84
41	Cell membrane orientation visualized by polarized total internal reflection fluorescence. *Biophysical Journal*, **1999**, 77, 2266-83	2.9	114
40	Pathways through the macrophage vacuolar compartment. *Advances in Cellular and Molecular Biology of Membranes and Organelles*, **1999**, 267-284		2
39	pH-dependent perforation of macrophage phagosomes by listeriolysin O from Listeria monocytogenes. *Journal of Experimental Medicine*, **1997**, 186, 1159-63	16.6	206
38	The efficiency of antigen delivery from macrophage phagosomes into cytoplasm for MHC class I-restricted antigen presentation. *Vaccine*, **1997**, 15, 511-8	4.1	35
37	Different fates of phagocytosed particles after delivery into macrophage lysosomes. *Journal of Cell Biology*, **1996**, 132, 585-93	7.3	109
36	Microtubules can modulate pseudopod activity from a distance inside macrophages. *Cytoskeleton*, **1996**, 34, 230-45		26
35	Delivery of Macromolecules into Cytosol Using Liposomes Containing Hemolysin from Listeria monocytogenes. *Journal of Biological Chemistry*, **1996**, 271, 7249-7252	5.4	87
34	A role for phosphoinositide 3-kinase in the completion of macropinocytosis and phagocytosis by macrophages. *Journal of Cell Biology*, **1996**, 135, 1249-60	7.3	776
33	Molecular size-fractionation during endocytosis in macrophages. *Journal of Cell Biology*, **1995**, 129, 989-983	7.3	115
32	Effects of macromolecular crowding on nuclear size. *Experimental Cell Research*, **1995**, 218, 114-22	4.2	8
31	The endocytic activity of dendritic cells. *Journal of Experimental Medicine*, **1995**, 182, 283-8	16.6	247
30	Phagocytosis by zippers and triggers. *Trends in Cell Biology*, **1995**, 5, 89-93	18.3	241
29	Macropinocytosis. *Trends in Cell Biology*, **1995**, 5, 424-8	18.3	639
28	Salmonella stimulate macrophage macropinocytosis and persist within spacious phagosomes. *Journal of Experimental Medicine*, **1994**, 179, 601-8	16.6	286
27	Measurement of phagosome-lysosome fusion and phagosomal pH. *Methods in Enzymology*, **1994**, 236, 147-60	1.7	16

26	Macropinosome maturation and fusion with tubular lysosomes in macrophages. *Journal of Cell Biology*, **1993**, 121, 1011-20	7.3	273
25	Pure thoughts with impure proteins: permeabilized cell models of organelle motility. *BioEssays*, **1993**, 15, 715-22	4.1	6
24	Salmonella typhimurium activates virulence gene transcription within acidified macrophage phagosomes. *Proceedings of the National Academy of Sciences of the United States of America*, **1992**, 89, 10079-83	11.5	377
23	Cellular dimensions affecting the nucleocytoplasmic volume ratio. *Journal of Cell Biology*, **1991**, 115, 941-8	7.3	54
22	Radial extension of macrophage tubular lysosomes supported by kinesin. *Nature*, **1990**, 346, 864-6	50.4	239
21	Macrophage colony-stimulating factor (rM-CSF) stimulates pinocytosis in bone marrow-derived macrophages. *Journal of Experimental Medicine*, **1989**, 170, 1635-48	16.6	200
20	Fluorescent labeling of endocytic compartments. *Methods in Cell Biology*, **1989**, 29, 137-51	1.8	63
19	A prelysosomal compartment sequesters membrane-impermeant fluorescent dyes from the cytoplasmic matrix of J774 macrophages. *Journal of Cell Biology*, **1988**, 107, 887-96	7.3	59
18	Pinocytic Flow through Macrophages **1988**, 15-27		1
17	Nuclear reassembly excludes large macromolecules. *Science*, **1987**, 238, 548-50	33.3	59
16	Macrophages possess probenecid-inhibitable organic anion transporters that remove fluorescent dyes from the cytoplasmic matrix. *Journal of Cell Biology*, **1987**, 105, 2695-702	7.3	149
15	Tubular lysosomes accompany stimulated pinocytosis in macrophages. *Journal of Cell Biology*, **1987**, 104, 1217-22	7.3	97
14	Tubular lysosome morphology and distribution within macrophages depend on the integrity of cytoplasmic microtubules. *Proceedings of the National Academy of Sciences of the United States of America*, **1987**, 84, 1921-5	11.5	215
13	Effect of alterations in the size of the vacuolar compartment on pinocytosis in J774.2 macrophages. *Journal of Cellular Physiology*, **1986**, 128, 195-201	7	24
12	Fc-receptor-mediated phagocytosis occurs in macrophages without an increase in average [Ca++]i. *Journal of Cell Biology*, **1986**, 102, 1586-92	7.3	63
11	Phorbol esters and horseradish peroxidase stimulate pinocytosis and redirect the flow of pinocytosed fluid in macrophages. *Journal of Cell Biology*, **1985**, 100, 851-9	7.3	237
10	Abundance, relative gelation activity, and distribution of the 95,000-dalton actin-binding protein from Dictyostelium discoideum. *Journal of Cell Biology*, **1983**, 97, 178-85	7.3	55
9	Local and spatially coordinated movements in Dictyostelium discoideum amoebae during chemotaxis. *Cell*, **1982**, 28, 225-32	56.2	123

8	ULTRASTRUCTURE OF THE BIFLAGELLATE MOTILE CELLS OF ULVARIA OXYSPERMA (KÜTZ.) BLIDING AND PHYLOGENETIC RELATIONSHIPS AMONG ULVAPHYCEAN ALGAE. *American Journal of Botany*, **1982**, 69, 150-159	2.7	32
7	ULTRASTRUCTURE OF THE BIFLAGELLATE MOTILE CELLS OF ULVARIA OXYSPERMA (KÜTZ.) BLIDING AND PHYLOGENETIC RELATIONSHIPS AMONG ULVAPHYCEAN ALGAE **1982**, 69, 150		16
6	Coated vesicles in Dictyostelium discoideum. *Journal of Ultrastructure Research*, **1981**, 75, 243-9		20
5	Ultrastructure of the flagellar apparatus of the green algaTetraselmis subcordiformis. *Protoplasma*, **1981**, 107, 1-11	3.4	17
4	A membrane cytoskeleton from Dictyostelium discoideum. I. Identification and partial characterization of an actin-binding activity. *Journal of Cell Biology*, **1981**, 88, 396-409	7.3	84
3	Fine structure of the zoospore ofUlothrix belkae with emphasis on the flagellar apparatus. *Protoplasma*, **1980**, 104, 17-31	3.4	71
2	Acid phosphatase in Asteromonas gracilis (Chlorophyceae, Volvocales): a biochemical and cytochemical characterization. *Phycologia*, **1979**, 18, 362-368	2.7	14
1	Fine Structure of the Zoospores and Thallus of Blidingia minima. *Transactions of the American Microscopical Society*, **1978**, 97, 549		7