

# Joel A Swanson

## List of Publications by Citations

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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	Drug delivery strategy utilizing conjugation via reversible disulfide linkages: role and site of cellular reducing activities. <i>Advanced Drug Delivery Reviews</i> , <b>2003</b> , 55, 199-215	18.5	1173
114	A role for phosphoinositide 3-kinase in the completion of macropinocytosis and phagocytosis by macrophages. <i>Journal of Cell Biology</i> , <b>1996</b> , 135, 1249-60	7.3	776
113	Shaping cups into phagosomes and macropinosomes. <i>Nature Reviews Molecular Cell Biology</i> , <b>2008</b> , 9, 639-49	48.7	648
112	Macropinocytosis. <i>Trends in Cell Biology</i> , <b>1995</b> , 5, 424-8	18.3	639
111	Salmonella typhimurium activates virulence gene transcription within acidified macrophage phagosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1992</b> , 89, 10079-83	11.5	377
110	pH-dependent regulation of lysosomal calcium in macrophages. <i>Journal of Cell Science</i> , <b>2002</b> , 115, 599-607	6.7	356
109	pH-dependent regulation of lysosomal calcium in macrophages. <i>Journal of Cell Science</i> , <b>2002</b> , 115, 599-607	6.7	321
108	Detection of prokaryotic mRNA signifies microbial viability and promotes immunity. <i>Nature</i> , <b>2011</b> , 474, 385-9	50.4	300
107	Fluorescence resonance energy transfer-based stoichiometry in living cells. <i>Biophysical Journal</i> , <b>2002</b> , 83, 3652-64	2.9	296
106	Cdc42, Rac1, and Rac2 display distinct patterns of activation during phagocytosis. <i>Molecular Biology of the Cell</i> , <b>2004</b> , 15, 3509-19	3.5	287
105	Salmonella stimulate macrophage macropinocytosis and persist within spacious phagosomes. <i>Journal of Experimental Medicine</i> , <b>1994</b> , 179, 601-8	16.6	286
104	Macropinosome maturation and fusion with tubular lysosomes in macrophages. <i>Journal of Cell Biology</i> , <b>1993</b> , 121, 1011-20	7.3	273
103	The endocytic activity of dendritic cells. <i>Journal of Experimental Medicine</i> , <b>1995</b> , 182, 283-8	16.6	247
102	Phagocytosis by zippers and triggers. <i>Trends in Cell Biology</i> , <b>1995</b> , 5, 89-93	18.3	241
101	Radial extension of macrophage tubular lysosomes supported by kinesin. <i>Nature</i> , <b>1990</b> , 346, 864-6	50.4	239
100	Phorbol esters and horseradish peroxidase stimulate pinocytosis and redirect the flow of pinocytosed fluid in macrophages. <i>Journal of Cell Biology</i> , <b>1985</b> , 100, 851-9	7.3	237
99	The coordination of signaling during Fc receptor-mediated phagocytosis. <i>Journal of Leukocyte Biology</i> , <b>2004</b> , 76, 1093-103	6.5	229

98	The <i>Listeria monocytogenes</i> hemolysin has an acidic pH optimum to compartmentalize activity and prevent damage to infected host cells. <i>Journal of Cell Biology</i> , <b>2002</b> , 156, 1029-38	7.3	220
97	Tubular lysosome morphology and distribution within macrophages depend on the integrity of cytoplasmic microtubules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1987</b> , 84, 1921-5	11.5	215
96	pH-dependent perforation of macrophage phagosomes by listeriolysin O from <i>Listeria monocytogenes</i> . <i>Journal of Experimental Medicine</i> , <b>1997</b> , 186, 1159-63	16.6	206
95	Macrophage colony-stimulating factor (rM-CSF) stimulates pinocytosis in bone marrow-derived macrophages. <i>Journal of Experimental Medicine</i> , <b>1989</b> , 170, 1635-48	16.6	200
94	Early <i>Bacillus anthracis</i> -macrophage interactions: intracellular survival survival and escape. <i>Cellular Microbiology</i> , <b>2000</b> , 2, 453-63	3.9	199
93	Bnip3 mediates the hypoxia-induced inhibition on mammalian target of rapamycin by interacting with Rheb. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 35803-13	5.4	195
92	Phosphoinositide-3-kinase-independent contractile activities associated with Fcγ-receptor-mediated phagocytosis and macropinocytosis in macrophages. <i>Journal of Cell Science</i> , <b>2003</b> , 116, 247-57	5.3	161
91	Macrophages possess probenecid-inhibitable organic anion transporters that remove fluorescent dyes from the cytoplasmic matrix. <i>Journal of Cell Biology</i> , <b>1987</b> , 105, 2695-702	7.3	149
90	The uniformity of phagosome maturation in macrophages. <i>Journal of Cell Biology</i> , <b>2004</b> , 164, 185-94	7.3	144
89	Transcellular delivery of vesicular SOCS proteins from macrophages to epithelial cells blunts inflammatory signaling. <i>Journal of Experimental Medicine</i> , <b>2015</b> , 212, 729-42	16.6	138
88	Membrane perforations inhibit lysosome fusion by altering pH and calcium in <i>Listeria monocytogenes</i> vacuoles. <i>Cellular Microbiology</i> , <b>2006</b> , 8, 781-92	3.9	135
87	Dynamics of cytoskeletal proteins during Fcγ receptor-mediated phagocytosis in macrophages. <i>Molecular Biology of the Cell</i> , <b>2002</b> , 13, 402-11	3.5	123
86	Local and spatially coordinated movements in <i>Dictyostelium discoideum</i> amoebae during chemotaxis. <i>Cell</i> , <b>1982</b> , 28, 225-32	56.2	123
85	Sequential signaling in plasma-membrane domains during macropinosome formation in macrophages. <i>Journal of Cell Science</i> , <b>2009</b> , 122, 3250-61	5.3	118
84	Molecular size-fractionation during endocytosis in macrophages. <i>Journal of Cell Biology</i> , <b>1995</b> , 129, 989-983	7.3	115
83	Cell membrane orientation visualized by polarized total internal reflection fluorescence. <i>Biophysical Journal</i> , <b>1999</b> , 77, 2266-83	2.9	114
82	Different fates of phagocytosed particles after delivery into macrophage lysosomes. <i>Journal of Cell Biology</i> , <b>1996</b> , 132, 585-93	7.3	109
81	Cytolysin-dependent delay of vacuole maturation in macrophages infected with <i>Listeria monocytogenes</i> . <i>Cellular Microbiology</i> , <b>2006</b> , 8, 107-19	3.9	108

80	Kinesin-1 structural organization and conformational changes revealed by FRET stoichiometry in live cells. <i>Journal of Cell Biology</i> , <b>2007</b> , 176, 51-63	7.3	104
79	A phosphatidylinositol-3-kinase-dependent signal transition regulates ARF1 and ARF6 during Fcγ receptor-mediated phagocytosis. <i>PLoS Biology</i> , <b>2006</b> , 4, e162	9.7	103
78	Tubular lysosomes accompany stimulated pinocytosis in macrophages. <i>Journal of Cell Biology</i> , <b>1987</b> , 104, 1217-22	7.3	97
77	Proteolytic activation of receptor-bound anthrax protective antigen on macrophages promotes its internalization. <i>Cellular Microbiology</i> , <b>2000</b> , 2, 251-8	3.9	92
76	Localized reactive oxygen and nitrogen intermediates inhibit escape of <i>Listeria monocytogenes</i> from vacuoles in activated macrophages. <i>Journal of Immunology</i> , <b>2003</b> , 171, 5447-53	5.3	91
75	Delivery of Macromolecules into Cytosol Using Liposomes Containing Hemolysin from <i>Listeria monocytogenes</i> . <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 7249-7252	5.4	87
74	Ratiometric and fluorescence-lifetime-based biosensors incorporating cytochrome c and the detection of extra- and intracellular macrophage nitric oxide. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 1767-72	7.8	84
73	A membrane cytoskeleton from <i>Dictyostelium discoideum</i> . I. Identification and partial characterization of an actin-binding activity. <i>Journal of Cell Biology</i> , <b>1981</b> , 88, 396-409	7.3	84
72	A Cdc42 activation cycle coordinated by PI 3-kinase during Fc receptor-mediated phagocytosis. <i>Molecular Biology of the Cell</i> , <b>2010</b> , 21, 470-80	3.5	77
71	Differential association of phosphatidylinositol 3-kinase, SHIP-1, and PTEN with forming phagosomes. <i>Molecular Biology of the Cell</i> , <b>2007</b> , 18, 2463-72	3.5	75
70	Fine structure of the zoospore of <i>Ulothrix belkiae</i> with emphasis on the flagellar apparatus. <i>Protoplasma</i> , <b>1980</b> , 104, 17-31	3.4	71
69	Fc-receptor-mediated phagocytosis occurs in macrophages without an increase in average $[Ca^{++}]_i$ . <i>Journal of Cell Biology</i> , <b>1986</b> , 102, 1586-92	7.3	63
68	Fluorescent labeling of endocytic compartments. <i>Methods in Cell Biology</i> , <b>1989</b> , 29, 137-51	1.8	63
67	Determination of the physical environment within the <i>Chlamydia trachomatis</i> inclusion using ion-selective ratiometric probes. <i>Cellular Microbiology</i> , <b>2002</b> , 4, 273-83	3.9	62
66	The role of the activated macrophage in clearing <i>Listeria monocytogenes</i> infection. <i>Frontiers in Bioscience - Landmark</i> , <b>2007</b> , 12, 2683-92	2.8	62
65	Coordination of Fc receptor signaling regulates cellular commitment to phagocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 19332-7	11.5	61
64	Growth factor signaling to mTORC1 by amino acid-laden macropinosomes. <i>Journal of Cell Biology</i> , <b>2015</b> , 211, 159-72	7.3	59
63	Nuclear reassembly excludes large macromolecules. <i>Science</i> , <b>1987</b> , 238, 548-50	33.3	59

62	A prelysosomal compartment sequesters membrane-impermeant fluorescent dyes from the cytoplasmic matrix of J774 macrophages. <i>Journal of Cell Biology</i> , <b>1988</b> , 107, 887-96	7.3	59
61	A FRET analysis to unravel the role of cholesterol in Rac1 and PI 3-kinase activation in the InlB/Met signalling pathway. <i>Cellular Microbiology</i> , <b>2007</b> , 9, 790-803	3.9	56
60	Listeria monocytogenes exploits cystic fibrosis transmembrane conductance regulator (CFTR) to escape the phagosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 1633-8	11.5	55
59	Abundance, relative gelation activity, and distribution of the 95,000-dalton actin-binding protein from Dictyostelium discoideum. <i>Journal of Cell Biology</i> , <b>1983</b> , 97, 178-85	7.3	55
58	Cellular dimensions affecting the nucleocytoplasmic volume ratio. <i>Journal of Cell Biology</i> , <b>1991</b> , 115, 941-8	7.3	54
57	A growth factor signaling cascade confined to circular ruffles in macrophages. <i>Biology Open</i> , <b>2012</b> , 1, 754-60	2.2	53
56	Macropinocytosis, mTORC1 and cellular growth control. <i>Cellular and Molecular Life Sciences</i> , <b>2018</b> , 75, 1227-1239	10.3	53
55	Cryptococcus neoformans-induced macrophage lysosome damage crucially contributes to fungal virulence. <i>Journal of Immunology</i> , <b>2015</b> , 194, 2219-31	5.3	51
54	Mechanisms and modulation of microvesicle uptake in a model of alveolar cell communication. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 20897-20910	5.4	50
53	N-way FRET microscopy of multiple protein-protein interactions in live cells. <i>PLoS ONE</i> , <b>2013</b> , 8, e64760	3.7	40
52	Ruffles limit diffusion in the plasma membrane during macropinosome formation. <i>Journal of Cell Science</i> , <b>2011</b> , 124, 4106-14	5.3	40
51	Calcium spikes in activated macrophages during Fcγ receptor-mediated phagocytosis. <i>Journal of Leukocyte Biology</i> , <b>2002</b> , 72, 677-84	6.5	39
50	Differential signaling during macropinocytosis in response to M-CSF and PMA in macrophages. <i>Frontiers in Physiology</i> , <b>2015</b> , 6, 8	4.6	38
49	SHIP-1 increases early oxidative burst and regulates phagosome maturation in macrophages. <i>Journal of Immunology</i> , <b>2008</b> , 180, 7497-505	5.3	38
48	Coordination of the Rab5 cycle on macropinosomes. <i>Traffic</i> , <b>2011</b> , 12, 1911-22	5.7	36
47	The efficiency of antigen delivery from macrophage phagosomes into cytoplasm for MHC class I-restricted antigen presentation. <i>Vaccine</i> , <b>1997</b> , 15, 511-8	4.1	35
46	Three-dimensional FRET reconstruction microscopy for analysis of dynamic molecular interactions in live cells. <i>Biophysical Journal</i> , <b>2008</b> , 95, 400-18	2.9	34
45	Protection from anthrax toxin-mediated killing of macrophages by the combined effects of furin inhibitors and chloroquine. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2005</b> , 49, 3875-82	5.9	32

44	ULTRASTRUCTURE OF THE BIFLAGELLATE MOTILE CELLS OF ULVARIA OXYSPERMA (Kütz.) BLINDING AND PHYLOGENETIC RELATIONSHIPS AMONG ULVAPHYCEAN ALGAE. <i>American Journal of Botany</i> , <b>1982</b> , 69, 150-159	2.7	32
43	CXCL12-induced macropinocytosis modulates two distinct pathways to activate mTORC1 in macrophages. <i>Journal of Leukocyte Biology</i> , <b>2017</b> , 101, 683-692	6.5	27
42	Technical advance: Caspase-1 activation and IL-1 $\beta$ release correlate with the degree of lysosome damage, as illustrated by a novel imaging method to quantify phagolysosome damage. <i>Journal of Leukocyte Biology</i> , <b>2010</b> , 88, 813-22	6.5	27
41	The role of the activated macrophage in clearing <i>Listeria monocytogenes</i> nbsp infection. <i>Frontiers in Bioscience - Landmark</i> , <b>2007</b> , 12, 2683-2692	2.8	27
40	Microtubules can modulate pseudopod activity from a distance inside macrophages. <i>Cytoskeleton</i> , <b>1996</b> , 34, 230-45		26
39	The breadth of macropinocytosis research. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 374, 20180146	5.8	25
38	Phosphoinositides and engulfment. <i>Cellular Microbiology</i> , <b>2014</b> , 16, 1473-83	3.9	24
37	Effect of alterations in the size of the vacuolar compartment on pinocytosis in J774.2 macrophages. <i>Journal of Cellular Physiology</i> , <b>1986</b> , 128, 195-201	7	24
36	Inducible renitence limits <i>Listeria monocytogenes</i> escape from vacuoles in macrophages. <i>Journal of Immunology</i> , <b>2012</b> , 189, 4488-95	5.3	22
35	Macropinocytosis drives T cell growth by sustaining the activation of mTORC1. <i>Nature Communications</i> , <b>2020</b> , 11, 180	17.4	22
34	Loss of PTEN promotes formation of signaling-capable clathrin-coated pits. <i>Journal of Cell Science</i> , <b>2018</b> , 131,	5.3	21
33	Live cell fluorescence microscopy to study microbial pathogenesis. <i>Cellular Microbiology</i> , <b>2009</b> , 11, 540-599		21
32	Coated vesicles in <i>Dictyostelium discoideum</i> . <i>Journal of Ultrastructure Research</i> , <b>1981</b> , 75, 243-9		20
31	Localization of protein kinase C epsilon to macrophage vacuoles perforated by <i>Listeria monocytogenes</i> cytolysin. <i>Cellular Microbiology</i> , <b>2007</b> , 9, 1695-704	3.9	19
30	Host cell perforation by listeriolysin O (LLO) activates a Ca-dependent cPKC/Rac1/Arp2/3 signaling pathway that promotes internalization independently of membrane resealing. <i>Molecular Biology of the Cell</i> , <b>2018</b> , 29, 270-284	3.5	19
29	Ultrastructure of the flagellar apparatus of the green alga <i>Tetraselmis subcordiformis</i> . <i>Protoplasma</i> , <b>1981</b> , 107, 1-11	3.4	17
28	Macropinosomes as units of signal transduction. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 374, 20180157	5.8	16
27	Actin and phosphoinositide recruitment to fully formed <i>Candida albicans</i> phagosomes in mouse macrophages. <i>Journal of Innate Immunity</i> , <b>2009</b> , 1, 244-53	6.9	16

26	Measurement of phagosome-lysosome fusion and phagosomal pH. <i>Methods in Enzymology</i> , <b>1994</b> , 236, 147-60	1.7	16
25	ULTRASTRUCTURE OF THE BIFLAGELLATE MOTILE CELLS OF ULVARIA OXYSPERMA (Kütz.) BLINDING AND PHYLOGENETIC RELATIONSHIPS AMONG ULVAPHYCEAN ALGAE <b>1982</b> , 69, 150		16
24	Dorsal ruffles enhance activation of Akt by growth factors. <i>Journal of Cell Science</i> , <b>2018</b> , 131,	5.3	15
23	Acid phosphatase in <i>Asteromonas gracilis</i> (Chlorophyceae, Volvocales): a biochemical and cytochemical characterization. <i>Phycologia</i> , <b>1979</b> , 18, 362-368	2.7	14
22	Two-photon imaging of multiple fluorescent proteins by phase-shaping and linear unmixing with a single broadband laser. <i>Optics Express</i> , <b>2013</b> , 21, 17256-64	3.3	13
21	CRISPR knockout screen implicates three genes in lysosome function. <i>Scientific Reports</i> , <b>2019</b> , 9, 9609	4.9	11
20	Reverse Engineering the Intracellular Self-Assembly of a Functional Mechanopharmaceutical Device. <i>Scientific Reports</i> , <b>2018</b> , 8, 2934	4.9	10
19	Effects of macromolecular crowding on nuclear size. <i>Experimental Cell Research</i> , <b>1995</b> , 218, 114-22	4.2	8
18	Adapter protein SH2-Bbeta stimulates actin-based motility of <i>Listeria monocytogenes</i> in a vasodilator-stimulated phosphoprotein (VASP)-dependent fashion. <i>Infection and Immunity</i> , <b>2007</b> , 75, 3581-93	3.7	7
17	1 Ratiometric fluorescence microscopy. <i>Methods in Microbiology</i> , <b>2002</b> , 31, 1-18	2.8	7
16	Fine Structure of the Zoospores and Thallus of <i>Blidingia minima</i> . <i>Transactions of the American Microscopical Society</i> , <b>1978</b> , 97, 549		7
15	Transient increase in cyclic AMP localized to macrophage phagosomes. <i>PLoS ONE</i> , <b>2010</b> , 5, e13962	3.7	7
14	Pure thoughts with impure proteins: permeabilized cell models of organelle motility. <i>BioEssays</i> , <b>1993</b> , 15, 715-22	4.1	6
13	Pulse-shaping based two-photon FRET stoichiometry. <i>Optics Express</i> , <b>2015</b> , 23, 3353-72	3.3	5
12	Renitence vacuoles facilitate protection against phagolysosomal damage in activated macrophages. <i>Molecular Biology of the Cell</i> , <b>2018</b> , 29, 657-668	3.5	5
11	The structural dynamics of macropinosome formation and PI3-kinase-mediated sealing revealed by lattice light sheet microscopy. <i>Nature Communications</i> , <b>2021</b> , 12, 4838	17.4	5
10	High Cholesterol at the Heart of Phagolysosomal Damage. <i>Cell Metabolism</i> , <b>2018</b> , 27, 487-488	24.6	4
9	Alveolar macrophage-derived extracellular vesicles inhibit endosomal fusion of influenza virus. <i>EMBO Journal</i> , <b>2020</b> , 39, e105057	13	4

8	The noodle defense. <i>Journal of Cell Biology</i> , <b>2013</b> , 203, 871-3	7.3	3
7	Pulse-shaping multiphoton FRET microscopy. <i>Proceedings of SPIE</i> , <b>2012</b> , 8226,	1.7	2
6	Pathways through the macrophage vacuolar compartment. <i>Advances in Cellular and Molecular Biology of Membranes and Organelles</i> , <b>1999</b> , 267-284		2
5	Three-dimensional FRET microscopy <b>2006</b> ,		1
4	Pinocytic Flow through Macrophages <b>1988</b> , 15-27		1
3	Roles for 3TPhosphoinositides in Macropinocytosis.. <i>Sub-Cellular Biochemistry</i> , <b>2022</b> , 98, 119-141	5.5	0
2	Signaling for Phagocytosis <b>2014</b> , 193-P2		
1	Transcellular delivery of vesicular SOCS proteins from macrophages to epithelial cells blunts inflammatory signaling. <i>Journal of Cell Biology</i> , <b>2015</b> , 209, 2091OIA65	7.3	