Gareth Griffiths

List of Publications by Year
in descending order

114 papers	12,050 citations	19636 61 h-index	31818 101 g-index
117 all docs	117 docs citations	117 times ranked	13427 citing authors

#	Article	IF	Citations
1	The mannose 6-phosphate receptor and the biogenesis of lysosomes. Cell, 1988, 52, 329-341.	13.5	856
2	Î²-COP, a 110 kd protein associated with non-clathrin-coated vesicles and the golgi complex, shows homology to Î²-adaptin. Cell, 1991, 64, 649-665.	13.5	504
3	On the preparation of cryosections for immunocytochemistry. Journal of Ultrastructure Research, 1984, 89, 65-78.	1.4	476
4	Fine Structure Immunocytochemistry. , 1993, , .		418
5	Actin-based motility of vaccinia virus. Nature, 1995, 378, 636-638.	13.7	416
6	Direct Visualization of the Outer Membrane of Mycobacteria and Corynebacteria in Their Native State. Journal of Bacteriology, 2008, 190, 5672-5680.	1.0	391
7	MOM19, an import receptor for mitochondrial precursor proteins. Cell, 1989, 59, 1061-1070.	13.5	348
8	A mitochondrial import receptor for the ADP/ATP carrier. Cell, 1990, 62, 107-115.	13.5	308
9	Mutations in the cytoplasmic domain of the 275 kd mannose 6-phosphate receptor differentially alter lysosomal enzyme sorting and endocytosis. Cell, 1989, 57, 787-796.	13.5	287
10	Mycobacterium tuberculosis protein ESAT-6 is a potent activator of the NLRP3/ASC inflammasome. Cellular Microbiology, 2010, 12, 1046-1063.	1.1	286
11	Identification of a mitochondrial receptor complex required for recognition and membrane insertion of precursor proteins. Nature, 1990, 348, 610-616.	13.7	271
12	Selected lipids activate phagosome actin assembly and maturation resulting in killing of pathogenic mycobacteria. Nature Cell Biology, 2003, 5, 793-802.	4.6	245
13	Anti-inflammatory Effects of Phosphatidylcholine. Journal of Biological Chemistry, 2007, 282, 27155-27164.	1.6	236
14	Passage of viral membrane proteins through the Golgi complex. Journal of Molecular Biology, 1981, 152, 663-698.	2.0	222
15	RanGTP mediates nuclear pore complex assembly. Nature, 2003, 424, 689-694.	13.7	219
16	Filopodia act as phagocytic tentacles and pull with discrete steps and a load-dependent velocity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11633-11638.	3.3	215
17	Molecular Requirements for Bi-directional Movement of Phagosomes Along Microtubules. Journal of Cell Biology, 1997, 137, 113-129.	2.3	212
18	Lysosomal Enzyme Trafficking between Phagosomes, Endosomes, and Lysosomes in J774 Macrophages. Journal of Biological Chemistry, 1998, 273, 9842-9851.	1.6	183

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19	Involvement of ezrin/moesin in de novo actin assembly on phagosomal membranes. EMBO Journal, 2000, 19, 199-212.	3.5	162
20	Entry of the Two Infectious Forms of Vaccinia Virus at the Plasma Membane Is Signaling-Dependent for the IMV but Not the EEV. Molecular Biology of the Cell, 2000, 11, 2497-2511.	0.9	162
21	Characterization of the Coronavirus Mouse Hepatitis Virus Strain A59 Small Membrane Protein E. Journal of Virology, 2000, 74, 2333-2342.	1.5	161
22	Phthiocerol dimycocerosates promote access to the cytosol and intracellular burden of Mycobacterium tuberculosis in lymphatic endothelial cells. BMC Biology, 2018, 16, 1.	1.7	156
23	The arguments for pre-existing early and late endosomes. Trends in Cell Biology, 1991, 1, 5-9.	3.6	152
24	Remodelling of the actin cytoskeleton is essential for replication of intravacuolar Salmonella. Cellular Microbiology, 2001, 3, 567-577.	1.1	149
25	Phagocytosis: latex leads the way. Current Opinion in Cell Biology, 2003, 15, 498-503.	2.6	146
26	Characterization of the intracellular survival of Mycobacterium avium ssp. paratuberculosis: phagosomal pH and fusogenicity in J774 macrophages compared with other mycobacteria. Cellular Microbiology, 2001, 3, 551-566.	1.1	144
27	A role for the small GTPase Rab21 in the early endocytic pathway. Journal of Cell Science, 2004, 117, 6297-6311.	1.2	141
28	Cathelicidin is involved in the intracellular killing of mycobacteria in macrophages. Cellular Microbiology, 2011, 13, 1601-1617.	1.1	141
29	Cell biology of viruses that assemble along the biosynthetic pathway. Seminars in Cell Biology, 1992, 3, 367-381.	3.5	139
30	Nanoparticles as Drug Delivery System against Tuberculosis in Zebrafish Embryos: Direct Visualization and Treatment. ACS Nano, 2014, 8, 7014-7026.	7.3	128
31	Optical micromanipulation of nanoparticles and cells inside living zebrafish. Nature Communications, 2016, 7, 10974.	5.8	128
32	Nanobead-based interventions for the treatment and prevention of tuberculosis. Nature Reviews Microbiology, 2010, 8, 827-834.	13.6	127
33	In Vitro Fusion of Phagosomes with Different Endocytic Organelles from J774 Macrophages. Journal of Biological Chemistry, 1998, 273, 30379-30390.	1.6	114
34	On the killing of mycobacteria by macrophages. Cellular Microbiology, 2007, 10, 071106215315001-???.	1.1	114
35	Dynamic life and death interactions between Mycobacterium smegmatis and J774 macrophages. Cellular Microbiology, 2006, 8, 939-960.	1.1	110
36	NF-Î°B Activation Controls Phagolysosome Fusion-Mediated Killing of Mycobacteria by Macrophages. Journal of Immunology, 2008, 181, 2651-2663.	0.4	109

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37	Endobrevin, a Novel Synaptobrevin/VAMP-Like Protein Preferentially Associated with the Early Endosome. Molecular Biology of the Cell, 1998, 9, 1549-1563.	0.9	108
38	ATP-dependent Membrane Assembly of F-Actin Facilitates Membrane Fusion. Molecular Biology of the Cell, 2001, 12, 155-170.	0.9	106
39	Mannose 6-Phosphate Receptors and ADP-ribosylation Factors Cooperate for High Affinity Interaction of the AP-1 Golgi Assembly Proteins with Membranes. Journal of Biological Chemistry, 1996, 271, 2162-2170.	1.6	104
40	Exosomal Hsp70 Induces a Pro-Inflammatory Response to Foreign Particles Including Mycobacteria. PLoS ONE, 2010, 5, e10136.	1.1	104
41	Fusion between Phagosomes, Early and Late Endosomes: A Role for Actin in Fusion between Late, but Not Early Endocytic Organelles. Molecular Biology of the Cell, 2004, 15, 345-358.	0.9	103
42	Polylactide-co-glycolide-rifampicin-nanoparticles efficiently clear Mycobacterium bovis BCG infection in macrophages and remain membrane-bound in phago-lysosomes. Journal of Cell Science, 2013, 126, 3043-54.	1.2	97
43	Myosin Va Bound to Phagosomes Binds to F-Actin and Delays Microtubule-dependent Motility. Molecular Biology of the Cell, 2001, 12, 2742-2755.	0.9	91
44	TNF-Î±-induced up-regulation of pro-inflammatory cytokines is reduced by phosphatidylcholine in intestinal epithelial cells. BMC Gastroenterology, 2009, 9, 53.	0.8	90
45	Enhanced Permeability and Retention-like Extravasation of Nanoparticles from the Vasculature into Tuberculosis Granulomas in Zebrafish and Mouse Models. ACS Nano, 2018, 12, 8646-8661.	7.3	89
46	Dissociation of Coatomer from Membranes Is Required for Brefeldin Aâ€“induced Transfer of Golgi Enzymes to the Endoplasmic Reticulum. Journal of Cell Biology, 1997, 137, 319-333.	2.3	86
47	On vesicles and membrane compartments. Protoplasma, 1996, 195, 37-58.	1.0	83
48	A Rapid Method for Assessing the Distribution of Gold Labeling on Thin Sections. Journal of Histochemistry and Cytochemistry, 2004, 52, 991-1000.	1.3	83
49	An Unconventional Role for Cytoplasmic Disulfide Bonds in Vaccinia Virus Proteins. Journal of Cell Biology, 1999, 144, 267-279.	2.3	80
50	The Role of a 21-kDa Viral Membrane Protein in the Assembly of Vaccinia Virus from the Intermediate Compartment. Journal of Biological Chemistry, 1996, 271, 14950-14958.	1.6	78
51	Transient assembly of F-actin by phagosomes delays phagosome fusion with lysosomes in cargo-overloaded macrophages. Journal of Cell Science, 2009, 122, 2935-2945.	1.2	77
52	Actin-binding protein regulation by microRNAs as a novel microbial strategy to modulate phagocytosis by host cells: the case of N-Wasp and miR-142-3p. Frontiers in Cellular and Infection Microbiology, 2013, 3, 19.	1.8	76
53	Integrated network reconstruction, visualization and analysis using YANAsquare. BMC Bioinformatics, 2007, 8, 313.	1.2	75
54	<i>Candida albicans</i>actively modulates intracellular membrane trafficking in mouse macrophage phagosomes. Cellular Microbiology, 2009, 11, 560-589.	1.1	75

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55	Lymphatic endothelial cells are a replicative niche for Mycobacterium tuberculosis. Journal of Clinical Investigation, 2016, 126, 1093-1108.	3.9	75
56	Zebrafish as a model system for characterization of nanoparticles against cancer. Nanoscale, 2016, 8, 862-877.	2.8	74
57	Microtubule-associated Protein-dependent Binding of Phagosomes to Microtubules. Journal of Biological Chemistry, 1996, 271, 3803-3811.	1.6	73
58	Phosphoinositides Regulate Membrane-dependent Actin Assembly by Latex Bead Phagosomes. Molecular Biology of the Cell, 2002, 13, 1190-1202.	0.9	71
59	Golgi-to-phagosome transport of acid sphingomyelinase and prosaposin is mediated by sortilin. Journal of Cell Science, 2010, 123, 2502-2511.	1.2	70
60	Whole Cell Cryo-Electron Tomography Reveals Distinct Disassembly Intermediates of Vaccinia Virus. PLoS ONE, 2007, 2, e420.	1.1	69
61	GS32, a Novel Golgi SNARE of 32 kDa, Interacts Preferentially with Syntaxin 6. Molecular Biology of the Cell, 1999, 10, 119-134.	0.9	68
62	Characterization of Vaccinia Virus Intracellular Cores: Implications for Viral Uncoating and Core Structure. Journal of Virology, 2000, 74, 3525-3536.	1.5	68
63	cAMP synthesis and degradation by phagosomes regulate actin assembly and fusion events: consequences for mycobacteria. Journal of Cell Science, 2006, 119, 3686-3694.	1.2	64
64	Ezrin Promotes Actin Assembly at the Phagosome Membrane and Regulates Phagoâ€Lysosomal Fusion. Traffic, 2011, 12, 421-437.	1.3	61
65	On phagosome individuality and membrane signalling networks. Trends in Cell Biology, 2004, 14, 343-351.	3.6	60
66	Effects of omega-3 and -6 fatty acids on Mycobacterium tuberculosis in macrophages and in mice. Microbes and Infection, 2008, 10, 1379-1386.	1.0	59
67	Structure and Assembly of Intracellular Mature Vaccinia Virus: Thin-Section Analyses. Journal of Virology, 2001, 75, 11056-11070.	1.5	56
68	Structure and Assembly of Intracellular Mature Vaccinia Virus: Isolated-Particle Analysis. Journal of Virology, 2001, 75, 11034-11055.	1.5	55
69	Thioridazine in PLGA nanoparticles reduces toxicity and improves rifampicin therapy against mycobacterial infection in zebrafish. Nanotoxicology, 2016, 10, 680-688.	1.6	55
70	Cell evolution and the problem of membrane topology. Nature Reviews Molecular Cell Biology, 2007, 8, 1018-1024.	16.1	50
71	A simpler way of comparing the labelling densities of cellular compartments illustrated using data from VPARP and LAMP-1 immunogold labelling experiments. Histochemistry and Cell Biology, 2003, 119, 333-341.	0.8	48
72	The Block in Assembly of Modified Vaccinia Virus Ankara in HeLa Cells Reveals New Insights into Vaccinia Virus Morphogenesis. Journal of Virology, 2002, 76, 8318-8334.	1.5	47

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73	Control of relative radiation pressure in optical traps: Application to phagocytic membrane binding studies. Physical Review E, 2005, 71, 061927.	0.8	46
74	Tyrosine phosphatase MptpA of Mycobacterium tuberculosis inhibits phagocytosis and increases actin polymerization in macrophages. Research in Microbiology, 2005, 156, 1005-1013.	1.0	45
75	Lipids regulate P2X7-receptor-dependent actin assembly by phagosomes via ADP translocation and ATP synthesis in the phagosome lumen. Journal of Cell Science, 2009, 122, 499-504.	1.2	44
76	Gut Thoughts on the Golgi Complex. Traffic, 2000, 1, 738-745.	1.3	42
77	Role of lipids in killing mycobacteria by macrophages: evidence for NF-Î°B-dependent and -independent killing induced by different lipids. Cellular Microbiology, 2009, 11, 406-420.	1.1	41
78	Nanoparticle entry into cells; the cell biology weak link. Advanced Drug Delivery Reviews, 2022, 188, 114403.	6.6	31
79	Sphingosine-1-phosphate receptors stimulate macrophage plasma-membrane actin assembly via ADP release, ATP synthesis and P2X7R activation. Journal of Cell Science, 2009, 122, 505-512.	1.2	30
80	Gaining insight into a complex organelle, the phagosome, using two-dimensional gel electrophoresis. Electrophoresis, 1995, 16, 2249-2257.	1.3	29
81	Protective Role of the Capsule and Impact of Serotype 4 Switching on Streptococcus mitis. Infection and Immunity, 2014, 82, 3790-3801.	1.0	29
82	Identification of an immune regulated phagosomal Rab cascade in macrophages. Journal of Cell Science, 2014, 127, 2071-82.	1.2	29
83	Chapter 3 Preparation of Cells and Tissues for Immuno EM. Methods in Cell Biology, 2008, 88, 45-58.	0.5	28
84	Poly(I:C)-Encapsulating Nanoparticles Enhance Innate Immune Responses to the Tuberculosis Vaccine Bacille Calmetteâ€"GuÃ©rin (BCG) via Synergistic Activation of Innate Immune Receptors. Molecular Pharmaceutics, 2017, 14, 4098-4112.	2.3	28
85	Bringing electron microscopy back into focus for cell biology. Trends in Cell Biology, 2001, 11, 153-154.	3.6	27
86	Initial receptorâ€"ligand interactions modulate gene expression and phagosomal properties during both early and late stages of phagocytosis. European Journal of Cell Biology, 2010, 89, 693-704.	1.6	25
87	Porins facilitate nitric oxide-mediated killing of mycobacteria. Microbes and Infection, 2009, 11, 868-875.	1.0	21
88	Membrane-active antimicrobial peptides and human placental lysosomal extracts are highly active against mycobacteria. Peptides, 2011, 32, 881-887.	1.2	21
89	Layer-by-layer nanocoating of live Bacille-Calmette-GuÃ©rin mycobacteria with poly(I:C) and chitosan enhances pro-inflammatory activation and bactericidal capacity in murine macrophages. Biomaterials, 2016, 111, 1-12.	5.7	21
90	Actin assembly induced by polylysine beads or purified phagosomes: Quantitation by a new flow cytometry assay. Cytometry, 2000, 41, 46-54.	1.8	20

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91	Electron microscopy applications for quantitative cellular microbiology. Technoreview. Cellular Microbiology, 2001, 3, 659-668.	1.1	18
92	Quantitative Aspects of Immunocytochemistry. , 1993, , 371-445.		18
93	High-Resolution, 3D Imaging of the Zebrafish Gill-Associated Lymphoid Tissue (GIALT) Reveals a Novel Lymphoid Structure, the Amphibranchial Lymphoid Tissue. Frontiers in Immunology, 2021, 12, 769901.	2.2	18
94	The structure and function of a mannose 6-phosphate receptor- enriched, pre-lysosomal compartment in animal cells. Journal of Cell Science, 1989, 1989, 139-147.	1.2	17
95	Phagosome proteomes open the way to a better understanding of phagosome function. Genome Biology, 2007, 8, 207.	13.9	17
96	Fixation for Fine Structure Preservation and Immunocytochemistry. , 1993, , 26-89.		16
97	Modelling phagosomal lipid networks that regulate actin assembly. BMC Systems Biology, 2008, 2, 107.	3.0	14
98	Interferon-Î³â€“inducible Rab20 regulates endosomal morphology and EGFR degradation in macrophages. Molecular Biology of the Cell, 2015, 26, 3061-3070.	0.9	11
99	Adaptation of Cryoâ€Sectioning for IEM Labeling of Asymmetric Samples: A Study Using <i>Caenorhabditis elegans</i>. Traffic, 2015, 16, 893-905.	1.3	10
100	Cryo and Replica Techniques for Immunolabelling. , 1993, , 137-203.		9
101	The zebrafish embryo as an <i>in vivo</i> model for screening nanoparticle-formulated lipophilic anti-tuberculosis compounds. DMM Disease Models and Mechanisms, 2022, 15, .	1.2	8
102	Ultrastructure in cell biology: do we still need it?. European Journal of Cell Biology, 2004, 83, 245-251.	1.6	5
103	Kiyoteru Tokuyasu: a pioneer of cryo-ultramicrotomy. Microscopy (Oxford, England), 2015, 64, 377-379.	0.7	5
104	Labelling Reactions for Immunocytochemistry. , 1993, , 237-278.		5
105	Kiyoteru Tokuyasu: a pioneer of cryoâ€ultramicrotomy. Journal of Microscopy, 2015, 260, 235-237.	0.8	4
106	The Compartments of the Endocytic Pathway. , 1992, , 73-83.		4
107	Embedding Media for Section Immunocytochemistry. , 1993, , 90-136.		3
108	Actin assembly induced by polylysine beads or purified phagosomes: Quantitation by a new flow cytometry assay. Cytometry, 2000, 41, 46-54.	1.8	2

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109	Fine-Structure Preservation. , 1993, , 9-25.		2
110	Microtubule Dependent Transport and Fusion of Phagosomes with the Endocytic Pathway. , 1995, , 211-222.		1
111	Non-Immunological High-Affinity Interactions Used for Labelling. , 1993, , 307-344.		1
112	A little learning. Nature, 1997, 390, 548-548.	13.7	0
113	Cryosectioning and Immunolabeling: The Contributions of Kiyoteru Tokuyasu. Microscopy Today, 2018, 26, 44-49.	0.2	0
114	Hydrated cryo-section studies of endocytic structures in cells containing internalized gold markers imaged by TEM. Proceedings Annual Meeting Electron Microscopy Society of America, 1990, 48, 950-951.	0.0	0