Gareth Griffiths

List of Publications by Year
in descending order

114 papers	12,050 citations	19608 61 h-index	32761 100 g-index
117 all docs	117 docs citations	117 times ranked	13427 citing authors

#	Article	IF	Citations
1	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
2	Nanoparticle entry into cells; the cell biology weak link. Advanced Drug Delivery Reviews, 2022, 188, 114403.	6.6	31
3	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
4	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
5	Cryosectioning and Immunolabeling: The Contributions of Kiyoteru Tokuyasu. Microscopy Today, 2018, 26, 44-49.	0.2	0
6	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
7	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
8	Optical micromanipulation of nanoparticles and cells inside living zebrafish. Nature Communications, 2016, 7, 10974.	5.8	128
9	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
10	Zebrafish as a model system for characterization of nanoparticles against cancer. Nanoscale, 2016, 8, 862-877.	2.8	74
11	Thioridazine in PLGA nanoparticles reduces toxicity and improves rifampicin therapy against mycobacterial infection in zebrafish. Nanotoxicology, 2016, 10, 680-688.	1.6	55
12	Lymphatic endothelial cells are a replicative niche for Mycobacterium tuberculosis. Journal of Clinical Investigation, 2016, 126, 1093-1108.	3.9	75
13	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
14	Kiyoteru Tokuyasu: a pioneer of cryoâ€ultramicrotomy. Journal of Microscopy, 2015, 260, 235-237.	0.8	4
15	Kiyoteru Tokuyasu: a pioneer of cryo-ultramicrotomy. Microscopy (Oxford, England), 2015, 64, 377-379.	0.7	5
16	Interferon-Î³â€“inducible Rab20 regulates endosomal morphology and EGFR degradation in macrophages. Molecular Biology of the Cell, 2015, 26, 3061-3070.	0.9	11
17	Protective Role of the Capsule and Impact of Serotype 4 Switching on Streptococcus mitis. Infection and Immunity, 2014, 82, 3790-3801.	1.0	29
18	Identification of an immune regulated phagosomal Rab cascade in macrophages. Journal of Cell Science, 2014, 127, 2071-82.	1.2	29

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19	Nanoparticles as Drug Delivery System against Tuberculosis in Zebrafish Embryos: Direct Visualization and Treatment. ACS Nano, 2014, 8, 7014-7026.	7.3	128
20	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
21	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
22	Membrane-active antimicrobial peptides and human placental lysosomal extracts are highly active against mycobacteria. Peptides, 2011, 32, 881-887.	1.2	21
23	Cathelicidin is involved in the intracellular killing of mycobacteria in macrophages. Cellular Microbiology, 2011, 13, 1601-1617.	1.1	141
24	Ezrin Promotes Actin Assembly at the Phagosome Membrane and Regulates Phagoâ€Łysosomal Fusion. Traffic, 2011, 12, 421-437.	1.3	61
25	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
26	Nanobead-based interventions for the treatment and prevention of tuberculosis. Nature Reviews Microbiology, 2010, 8, 827-834.	13.6	127
27	Mycobacterium tuberculosis protein ESAT-6 is a potent activator of the NLRP3/ASC inflammasome. Cellular Microbiology, 2010, 12, 1046-1063.	1.1	286
28	Golgi-to-phagosome transport of acid sphingomyelinase and prosaposin is mediated by sortilin. Journal of Cell Science, 2010, 123, 2502-2511.	1.2	70
29	Exosomal Hsp70 Induces a Pro-Inflammatory Response to Foreign Particles Including Mycobacteria. PLoS ONE, 2010, 5, e10136.	1.1	104
30	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
31	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
32	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
33	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
34	Role of lipids in killing mycobacteria by macrophages: evidence for NF-ÎºB-dependent and -independent killing induced by different lipids. Cellular Microbiology, 2009, 11, 406-420.	1.1	41
35	<i>Candida albicans</i>actively modulates intracellular membrane trafficking in mouse macrophage phagosomes. Cellular Microbiology, 2009, 11, 560-589.	1.1	75
36	Porins facilitate nitric oxide-mediated killing of mycobacteria. Microbes and Infection, 2009, 11, 868-875.	1.0	21

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37	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
38	Modelling phagosomal lipid networks that regulate actin assembly. BMC Systems Biology, 2008, 2, 107.	3.0	14
39	Chapter 3 Preparation of Cells and Tissues for Immuno EM. Methods in Cell Biology, 2008, 88, 45-58.	0.5	28
40	Direct Visualization of the Outer Membrane of Mycobacteria and Corynebacteria in Their Native State. Journal of Bacteriology, 2008, 190, 5672-5680.	1.0	391
41	NF-Î°B Activation Controls Phagolysosome Fusion-Mediated Killing of Mycobacteria by Macrophages. Journal of Immunology, 2008, 181, 2651-2663.	0.4	109
42	Anti-inflammatory Effects of Phosphatidylcholine. Journal of Biological Chemistry, 2007, 282, 27155-27164.	1.6	236
43	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
44	Phagosome proteomes open the way to a better understanding of phagosome function. Genome Biology, 2007, 8, 207.	13.9	17
45	Cell evolution and the problem of membrane topology. Nature Reviews Molecular Cell Biology, 2007, 8, 1018-1024.	16.1	50
46	On the killing of mycobacteria by macrophages. Cellular Microbiology, 2007, 10, 071106215315001-???.	1.1	114
47	Integrated network reconstruction, visualization and analysis using YANAsquare. BMC Bioinformatics, 2007, 8, 313.	1.2	75
48	Whole Cell Cryo-Electron Tomography Reveals Distinct Disassembly Intermediates of Vaccinia Virus. PLoS ONE, 2007, 2, e420.	1.1	69
49	Dynamic life and death interactions between Mycobacterium smegmatis and J774 macrophages. Cellular Microbiology, 2006, 8, 939-960.	1.1	110
50	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
51	Control of relative radiation pressure in optical traps: Application to phagocytic membrane binding studies. Physical Review E, 2005, 71, 061927.	0.8	46
52	Tyrosine phosphatase MptpA of Mycobacterium tuberculosis inhibits phagocytosis and increases actin polymerization in macrophages. Research in Microbiology, 2005, 156, 1005-1013.	1.0	45
53	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
54	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

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55	A role for the small GTPase Rab21 in the early endocytic pathway. Journal of Cell Science, 2004, 117, 6297-6311.	1.2	141
56	On phagosome individuality and membrane signalling networks. Trends in Cell Biology, 2004, 14, 343-351.	3.6	60
57	Ultrastructure in cell biology: do we still need it?. European Journal of Cell Biology, 2004, 83, 245-251.	1.6	5
58	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
59	Phagocytosis: latex leads the way. Current Opinion in Cell Biology, 2003, 15, 498-503.	2.6	146
60	RanGTP mediates nuclear pore complex assembly. Nature, 2003, 424, 689-694.	13.7	219
61	Selected lipids activate phagosome actin assembly and maturation resulting in killing of pathogenic mycobacteria. Nature Cell Biology, 2003, 5, 793-802.	4.6	245
62	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
63	Phosphoinositides Regulate Membrane-dependent Actin Assembly by Latex Bead Phagosomes. Molecular Biology of the Cell, 2002, 13, 1190-1202.	0.9	71
64	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
65	Remodelling of the actin cytoskeleton is essential for replication of intravacuolar Salmonella. Cellular Microbiology, 2001, 3, 567-577.	1.1	149
66	Electron microscopy applications for quantitative cellular microbiology. Technoreview. Cellular Microbiology, 2001, 3, 659-668.	1.1	18
67	Bringing electron microscopy back into focus for cell biology. Trends in Cell Biology, 2001, 11, 153-154.	3.6	27
68	Structure and Assembly of Intracellular Mature Vaccinia Virus: Thin-Section Analyses. Journal of Virology, 2001, 75, 11056-11070.	1.5	56
69	Structure and Assembly of Intracellular Mature Vaccinia Virus: Isolated-Particle Analysis. Journal of Virology, 2001, 75, 11034-11055.	1.5	55
70	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
71	ATP-dependent Membrane Assembly of F-Actin Facilitates Membrane Fusion. Molecular Biology of the Cell, 2001, 12, 155-170.	0.9	106
72	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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73	Gut Thoughts on the Golgi Complex. Traffic, 2000, 1, 738-745.	1.3	42
74	Involvement of ezrin/moesin in de novo actin assembly on phagosomal membranes. EMBO Journal, 2000, 19, 199-212.	3.5	162
75	Characterization of the Coronavirus Mouse Hepatitis Virus Strain A59 Small Membrane Protein E. Journal of Virology, 2000, 74, 2333-2342.	1.5	161
76	Characterization of Vaccinia Virus Intracellular Cores: Implications for Viral Uncoating and Core Structure. Journal of Virology, 2000, 74, 3525-3536.	1.5	68
77	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
78	Actin assembly induced by polylysine beads or purified phagosomes: Quantitation by a new flow cytometry assay. , 2000, 41, 46.		2
79	An Unconventional Role for Cytoplasmic Disulfide Bonds in Vaccinia Virus Proteins. Journal of Cell Biology, 1999, 144, 267-279.	2.3	80
80	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
81	Lysosomal Enzyme Trafficking between Phagosomes, Endosomes, and Lysosomes in J774 Macrophages. Journal of Biological Chemistry, 1998, 273, 9842-9851.	1.6	183
82	In Vitro Fusion of Phagosomes with Different Endocytic Organelles from J774 Macrophages. Journal of Biological Chemistry, 1998, 273, 30379-30390.	1.6	114
83	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
84	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
85	Molecular Requirements for Bi-directional Movement of Phagosomes Along Microtubules. Journal of Cell Biology, 1997, 137, 113-129.	2.3	212
86	A little learning. Nature, 1997, 390, 548-548.	13.7	0
87	On vesicles and membrane compartments. Protoplasma, 1996, 195, 37-58.	1.0	83
88	Microtubule-associated Protein-dependent Binding of Phagosomes to Microtubules. Journal of Biological Chemistry, 1996, 271, 3803-3811.	1.6	73
89	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
90	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

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91	Gaining insight into a complex organelle, the phagosome, using two-dimensional gel electrophoresis. Electrophoresis, 1995, 16, 2249-2257.	1.3	29
92	Actin-based motility of vaccinia virus. Nature, 1995, 378, 636-638.	13.7	416
93	Microtubule Dependent Transport and Fusion of Phagosomes with the Endocytic Pathway. , 1995, , 211-222.		1
94	Fixation for Fine Structure Preservation and Immunocytochemistry. , 1993, , 26-89.		16
95	Embedding Media for Section Immunocytochemistry. , 1993, , 90-136.		3
96	Fine Structure Immunocytochemistry. , 1993, , .		418
97	Quantitative Aspects of Immunocytochemistry. , 1993, , 371-445.		18
98	Fine-Structure Preservation. , 1993, , 9-25.		2
99	Cryo and Replica Techniques for Immunolabelling. , 1993, , 137-203.		9
100	Labelling Reactions for Immunocytochemistry. , 1993, , 237-278.		5
101	Non-Immunological High-Affinity Interactions Used for Labelling. , 1993, , 307-344.		1
102	Cell biology of viruses that assemble along the biosynthetic pathway. Seminars in Cell Biology, 1992, 3, 367-381.	3.5	139
103	The Compartments of the Endocytic Pathway. , 1992, , 73-83.		4
104	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
105	The arguments for pre-existing early and late endosomes. Trends in Cell Biology, 1991, 1, 5-9.	3.6	152
106	Identification of a mitochondrial receptor complex required for recognition and membrane insertion of precursor proteins. Nature, 1990, 348, 610-616.	13.7	271
107	A mitochondrial import receptor for the ADP/ATP carrier. Cell, 1990, 62, 107-115.	13.5	308
108	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

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109	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
110	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
111	MOM19, an import receptor for mitochondrial precursor proteins. Cell, 1989, 59, 1061-1070.	13.5	348
112	The mannose 6-phosphate receptor and the biogenesis of lysosomes. Cell, 1988, 52, 329-341.	13.5	856
113	On the preparation of cryosections for immunocytochemistry. Journal of Ultrastructure Research, 1984, 89, 65-78.	1.4	476
114	Passage of viral membrane proteins through the Golgi complex. Journal of Molecular Biology, 1981, 152, 663-698.	2.0	222