# Gareth Griffiths

List of Publications by Year
in descending order

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|---|---|---|---|
| 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 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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-Î²B 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 | Candida albicansactively 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 Caenorhabditis elegans. 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 in vivo 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. , 2000, 41, 46. | | 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 |