# Paul R. Fisher

List of Publications by Year
in descending order



| 105 | 2,829 | 172457 | 206112 |
|---|---|---|---|
| papers | citations | 29 h-index | 48 g-index |

| 116 | 116 | 116 | 2569 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mitochondria in Health and Disease. Cells, 2019, 8, 680. | 4.1 | 294 |
| 2 | Quantitative analysis of cell motility and chemotaxis in Dictyostelium discoideum by using an image processing system and a novel chemotaxis chamber providing stationary chemical gradients.. Journal of Cell Biology, 1989, 108, 973-984. | 5.2 | 189 |
| 3 | Dictyostelium discoideumâ€"a model for many reasons. Molecular and Cellular Biochemistry, 2009, 329, 73-91. | 3.1 | 134 |
| 4 | Isolation and characterization of the pesticide-degrading plasmid pJP1 from Alcaligenes paradoxus. Journal of Bacteriology, 1978, 135, 798-804. | 2.2 | 114 |
| 5 | Detection of two loci involved in (1->3)-Â-glucan (curdlan) biosynthesis by Agrobacterium sp. ATCC31749, and comparative sequence analysis of the putative curdlan synthase gene. Glycobiology, 1999, 9, 31-41. | 2.5 | 113 |
| 6 | 2,4-D plasmids and persistence. Nature, 1977, 268, 732-733. | 27.8 | 99 |
| 7 | An extracellular chemical signal controlling phototactic behavior by D. discoideum slugs. Cell, 1981, 23, 799-807. | 28.9 | 85 |
| 8 | Emerging Roles of JmjC Domain-Containing Proteins. International Review of Cell and Molecular Biology, 2015, 319, 165-220. | 3.2 | 70 |
| 9 | Diverse Cytopathologies in Mitochondrial Disease Are Caused by AMP-activated Protein Kinase Signaling. Molecular Biology of the Cell, 2007, 18, 1874-1886. | 2.1 | 68 |
| 10 | A slow sustained increase in cytosolic Ca2+ levels mediates stalk gene induction by differentiation inducing factor in Dictyostelium.. EMBO Journal, 1996, 15, 5177-5183. | 7.8 | 66 |
| 11 | Two Dictyostelium Orthologs of the Prokaryotic Cell Division Protein FtsZ Localize to Mitochondria and Are Required for the Maintenance of Normal Mitochondrial Morphology. Eukaryotic Cell, 2003, 2, 1315-1326. | 3.4 | 65 |
| 12 | Analysis of a Complex Plasmid Insertion in a Phototaxis-Deficient Transformant of Dictyostelium discoideum Selected on a Micrococcus luteus Lawn. Plasmid, 1994, 32, 182-194. | 1.4 | 55 |
| 13 | Primary Structure, Expression and Developmental Regulation of a Dictyostelium Calcineurin A Homologue. FEBS Journal, 1996, 238, 391-399. | 0.2 | 53 |
| 14 | Pathological Mechanisms Underlying Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. Diagnostics, 2019, 9, 80. | 2.6 | 50 |
| 15 | MidA is a putative methyltransferase that is required for mitochondrial complex I function. Journal of Cell Science, 2010, 123, 1674-1683. | 2.0 | 49 |
| 16 | An Isolated Complex V Inefficiency and Dysregulated Mitochondrial Function in Immortalized Lymphocytes from ME/CFS Patients. International Journal of Molecular Sciences, 2020, 21, 1074. | 4.1 | 49 |
| 17 | Genetics of phototaxis in a model eukaryote,Dictyostelium discoideum. BioEssays, 1997, 19, 397-407. | 2.5 | 48 |
| 18 | Dictyostelium RasD is required for normal phototaxis, but not differentiation. Genes and Development, 2000, 14, 1407-1413. | 5.9 | 47 |

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|---|---|---|---|
| 19 | The Dictyostelium model for mitochondrial disease. Seminars in Cell and Developmental Biology, 2011, 22, 120-130. | 5.0 | 46 |
| 20 | Legionella pneumophilamultiplication is enhanced by chronic AMPK signalling in mitochondrially diseased Dictyostelium cells. DMM Disease Models and Mechanisms, 2009, 2, 479-489. | 2.4 | 45 |
| 21 | Chapter 2 Import Of Nuclearâ€Encoded Mitochondrial Proteins. International Review of Cell and Molecular Biology, 2009, 273, 49-68. | 3.2 | 42 |
| 22 | Immortalized Parkinson's Disease lymphocytes have enhanced mitochondrial respiratory activity. DMM Disease Models and Mechanisms, 2016, 9, 1295-1305. | 2.4 | 40 |
| 23 | Photosensory and thermosensory responses in Dictyostelium slugs are specifically impaired by absence of the F-actin cross-linking gelation factor (ABP-120). Current Biology, 1997, 7, 889-892. | 3.9 | 38 |
| 24 | Polycistronic transcription and editing of the mitochondrial small subunit ( SSU â€Š) ribosomal RNA in Dictyostelium discoideum. Current Genetics, 1999, 36, 55-61. | 1.7 | 38 |
| 25 | Mitochondrial Mutations Impair Signal Transduction inDictyostelium discoideumSlugs. Biochemical and Biophysical Research Communications, 1997, 234, 39-43. | 2.1 | 36 |
| 26 | The Dictyostelium genome encodes numerous RasGEFs with multiple biological roles. Genome Biology, 2005, 6, R68. | 9.6 | 36 |
| 27 | Chaperonin 60 and mitochondrial disease in Dictyostelium. Journal of Muscle Research and Cell Motility, 2002, 23, 839-852. | 2.0 | 35 |
| 28 | Selection of chemotaxis mutants of Dictyostelium discoideum.. Journal of Cell Biology, 1987, 104, 151-161. | 5.2 | 33 |
| 29 | Co-insertional Replication Is Responsible for Tandem Multimer Formation during Plasmid Integration into theDictyosteliumGenome. Plasmid, 1998, 39, 141-153. | 1.4 | 33 |
| 30 | Mitochondrial Biology and Disease in Dictyostelium. International Review of Cytology, 2007, 263, 207-252. | 6.2 | 29 |
| 31 | Purinergic-mediated Ca2+ influx in Dictyostelium discoideum. Cell Calcium, 2008, 44, 567-579. | 2.4 | 26 |
| 32 | Dictyostelium, a microbial model for brain disease. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 1413-1432. | 2.4 | 25 |
| 33 | An ancestral non-proteolytic role for presenilin proteins in multicellular development of the social amoeba Dictyostelium discoideum. Journal of Cell Science, 2014, 127, 1576-84. | 2.0 | 24 |
| 34 | Dysregulated Provision of Oxidisable Substrates to the Mitochondria in ME/CFS Lymphoblasts. International Journal of Molecular Sciences, 2021, 22, 2046. | 4.1 | 24 |
| 35 | Cell Patterning in Dictyostelium discoideum. Differentiation, 1981, 18, 61-63. | 1.9 | 22 |
| 36 | Release of Ca 2+ from the Endoplasmic Reticulum Contributes to Ca 2+ Signaling in Dictyostelium discoideum. Eukaryotic Cell, 2005, 4, 1513-1525. | 3.4 | 22 |

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| 37 | The role of gaseous metabolites in phototaxis byDictyostelium discoideumslugs. FEMS Microbiology Letters, 1991, 77, 117-120. | 1.8 | 21 |
| 38 | Transcript mapping and processing of mitochondrial RNA in Dictyostelium discoideum. Current Genetics, 2001, 39, 355-364. | 1.7 | 20 |
| 39 | Import-Associated Translational Inhibition: Novel In Vivo Evidence for Cotranslational Protein Import into Dictyostelium discoideum Mitochondria. Eukaryotic Cell, 2006, 5, 1314-1327. | 3.4 | 20 |
| 40 | Novel Blood Biomarkers Are Associated with White Matter Lesions in Fragile X- Associated Tremor/Ataxia Syndrome. Neurodegenerative Diseases, 2017, 17, 22-30. | 1.4 | 19 |
| 41 | Cell-Based Blood Biomarkers for Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. International Journal of Molecular Sciences, 2020, 21, 1142. | 4.1 | 19 |
| 42 | Slug Phototaxis, Thermotaxis, and Spontaneous Turning Behavior. , 2006, 346, 137-170. | | 18 |
| 43 | Transcription of the Dictyostelium discoideum mitochondrial genome occurs from a single initiation site. Rna, 2009, 15, 2321-2330. | 3.5 | 18 |
| 44 | Mitochondrial Stress Tests Using Seahorse Respirometry on Intact Dictyostelium discoideum Cells. Methods in Molecular Biology, 2016, 1407, 41-61. | 0.9 | 18 |
| 45 | The Parkinson's disease-associated protein DJ-1 plays a positive nonmitochondrial role in endocytosis inDictyosteliumcells. DMM Disease Models and Mechanisms, 2017, 10, 1261-1271. | 2.4 | 18 |
| 46 | The Dictyostelium model for mitochondrial biology and disease. International Journal of Developmental Biology, 2019, 63, 497-508. | 0.6 | 18 |
| 47 | A phototaxis signalling complex in Dictyostelium discoideum. European Journal of Cell Biology, 2006, 85, 1099-1106. | 3.6 | 17 |
| 48 | The LRRK2-related Roco kinase Roco2 is regulated by Rab1A and controls the actin cytoskeleton. Molecular Biology of the Cell, 2011, 22, 2198-2211. | 2.1 | 17 |
| 49 | Multiple signalling pathways connect chemoattractant receptors and calcium channels in Dictyostelium. Journal of Muscle Research and Cell Motility, 2002, 23, 853-865. | 2.0 | 16 |
| 50 | Dictyostelium discoideum Nucleoside Diphosphate Kinase C Plays a Negative Regulatory Role in Phagocytosis, Macropinocytosis and Exocytosis. PLoS ONE, 2011, 6, e26024. | 2.5 | 16 |
| 51 | Heteroplasmic mitochondrial disease in Dictyostelium discoideum. Biochemical Pharmacology, 2011, 82, 1510-1520. | 4.4 | 15 |
| 52 | Modelling of Neuronal Ceroid Lipofuscinosis Type 2 in Dictyostelium discoideum Suggests That Cytopathological Outcomes Result from Altered TOR Signalling. Cells, 2019, 8, 469. | 4.1 | 15 |
| 53 | Ndufaf5 deficiency in theDictyosteliummodel: new roles in autophagy and development. Molecular Biology of the Cell, 2013, 24, 1519-1528. | 2.1 | 14 |
| 54 | Misfolded Î±-synuclein causes hyperactive respiration without functional deficit in live neuroblastoma cells. DMM Disease Models and Mechanisms, 2020, 13, . | 2.4 | 14 |

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| 55 | Multidirectional phototaxis byDictyostelium discoideumamoebae. FEMS Microbiology Letters, 1985, 29, 43-47. | 1.8 | 13 |
| 56 | The role of cGMP in photosensory and thermosensory transduction in Dictyostelium discoideum. Microbiology (United Kingdom), 1994, 140, 1619-1632. | 1.8 | 13 |
| 57 | Sensory Behaviour in Dictyostelium Discoideum Slugs: Phototaxis and Thermotaxis are not Mediated by a Change in Slug Speed. Journal of Cell Science, 1982, 54, 329-339. | 2.0 | 13 |
| 58 | Filamin repeat segments required for photosensory signalling in Dictyostelium discoideum. BMC Cell Biology, 2007, 8, 48. | 3.0 | 12 |
| 59 | Chemiluminescence inDictyostelium discoideum. FEMS Microbiology Letters, 1988, 50, 157-161. | 1.8 | 11 |
| 60 | Mitochondrial HTRA2 Plays a Positive, Protective Role in Dictyostelium discoideum but Is Cytotoxic When Overexpressed. Genes, 2018, 9, 355. | 2.4 | 11 |
| 61 | A rapid, small scale method for characterization of plasmid insertions in the Dictyostelium genome. Nucleic Acids Research, 1998, 26, 3317-3318. | 14.5 | 10 |
| 62 | A genetic interaction between NDPK and AMPK in Dictyostelium discoideum that affects motility, growth and development. Naunyn-Schmiedeberg's Archives of Pharmacology, 2011, 384, 341-349. | 3.0 | 10 |
| 63 | Proteobacterial Origin of Protein Arginine Methylation and Regulation of Complex I Assembly by MidA. Cell Reports, 2018, 24, 1996-2004. | 6.4 | 10 |
| 64 | Cytotoxicity and Mitochondrial Dysregulation Caused by Î±-Synuclein in Dictyostelium discoideum. Cells, 2020, 9, 2289. | 4.1 | 10 |
| 65 | Lymphoblastoid Cell Lines as Models to Study Mitochondrial Function in Neurological Disorders. International Journal of Molecular Sciences, 2021, 22, 4536. | 4.1 | 10 |
| 66 | Dictyostelium Slug Phototaxis. Methods in Molecular Biology, 2009, 571, 67-76. | 0.9 | 10 |
| 67 | Contribution of endoplasmic reticulum to Ca2+signals inDictyosteliumdepends on extracellular Ca2+. FEMS Microbiology Letters, 2006, 257, 268-277. | 1.8 | 9 |
| 68 | Stress and development in Dictyostelium discoideum: the involvement of the catalytic calcineurin A subunit. Journal of Basic Microbiology, 2014, 54, 607-613. | 3.3 | 9 |
| 69 | The Parkinsonâ€™s Disease-Associated Protein DJ-1 Protects Dictyostelium Cells from AMPK-Dependent Outcomes of Oxidative Stress. Cells, 2021, 10, 1874. | 4.1 | 8 |
| 70 | Could the kynurenine pathway be the key missing piece of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS) complex puzzle?. Cellular and Molecular Life Sciences, 2022, 79, . | 5.4 | 8 |
| 71 | The Spectrum of Neurological and White Matter Changes and Premutation Status Categories of Older Male Carriers of the FMR1 Alleles Are Linked to Genetic (CGG and FMR1 mRNA) and Cellular Stress (AMPK) Markers. Frontiers in Genetics, 2018, 9, 531. | 2.3 | 7 |
| 72 | Replicon rescue: a novel strategy to clone the genomic DNA flanking insertions of integrating shuttle vector DNA. Nucleic Acids Research, 1996, 24, 4096-4097. | 14.5 | 6 |

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| 73 | A Conserved Role for LRRK2 and Roco Proteins in the Regulation of Mitochondrial Activity. Frontiers in Cell and Developmental Biology, 2021, 9, 734554. | 3.7 | 6 |
| 74 | Dictyostelium discoideum: A Model System for Neurological Disorders. Cells, 2022, 11, 463. | 4.1 | 6 |
| 75 | Efficient Circularization inEscherichia coliof Linear Plasmid Multimers fromDictyostelium discoideumGenomic DNA. Plasmid, 1996, 36, 86-94. | 1.4 | 5 |
| 76 | Cell type-specific filamin complex regulation by a novel class of HECT ubiquitin ligase is required for normal cell motility and patterning. Development (Cambridge), 2011, 138, 1583-1593. | 2.5 | 5 |
| 77 | Calcineurin Silencing in Dictyostelium discoideum Leads to Cellular Alterations Affecting Mitochondria, Gene Expression, and Oxidative Stress Response. Protist, 2018, 169, 584-602. | 1.5 | 5 |
| 78 | In Vivo Measurements of Cytosolic Calcium in Dictyostelium discoideum. Methods in Molecular Biology, 2009, 571, 291-308. | 0.9 | 5 |
| 79 | Guenther Gerisch and Dictyostelium, the microbial model for ameboid motility and multicellular morphogenesis. Trends in Cell Biology, 2004, 14, 585-588. | 7.9 | 4 |
| 80 | Biomedical Insights That Inform the Diagnosis of ME/CFS. Diagnostics, 2020, 10, 92. | 2.6 | 4 |
| 81 | Interactions and Cytotoxicity of Human Neurodegeneration- Associated Proteins Tau and Î±-Synuclein in the Simple Model Dictyostelium discoideum. Frontiers in Cell and Developmental Biology, 2021, 9, 741662. | 3.7 | 4 |
| 82 | Cellular Bioenergetics and AMPK and TORC1 Signalling in Blood Lymphoblasts Are Biomarkers of Clinical Status in FMR1 Premutation Carriers. Frontiers in Psychiatry, 2021, 12, 747268. | 2.6 | 4 |
| 83 | A Serpentine Receptor-Dependent, GÎ²- and Ca2+ Influx-Independent Pathway Regulates Mitogen-Activated Protein Kinase ERK2 in Dictyostelium. Biochemical and Biophysical Research Communications, 1999, 260, 504-509. | 2.1 | 3 |
| 84 | Chapter 19 Genetic analysis of phototaxis in Dictyostelium. Comprehensive Series in Photosciences, 2001, , 519-559. | 0.3 | 3 |
| 85 | A Dictyostelium SH2 adaptor protein required for correct DIF-1 signaling and pattern formation. Developmental Biology, 2011, 353, 290-301. | 2.0 | 3 |
| 86 | Mitochondrial Respiratory Complex Function and the Phenotypic Consequences of Dysfunction. Methods in Molecular Biology, 2013, 983, 345-366. | 0.9 | 3 |
| 87 | Cytopathological Mechanisms in Mitochondrial Disease. Current Chemical Biology, 2010, 4, 32-48. | 0.5 | 3 |
| 88 | Dysregulated Gene Expression in Lymphoblasts from Parkinsonâ€™s Disease. Proteomes, 2022, 10, 20. | 3.5 | 3 |
| 89 | Donald Graham MacPhee: In memoriam. Mutation Research - Reviews in Mutation Research, 2010, 705, 2-2. | 5.5 | 2 |
| 90 | Relationships between Mitochondrial Function, AMPK, and TORC1 Signaling in Lymphoblasts with Premutation Alleles of the FMR1 Gene. International Journal of Molecular Sciences, 2021, 22, 10393. | 4.1 | 2 |

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| 91 | Chronic Activation of AMPK Induces Mitochondrial Biogenesis through Differential Phosphorylation and Abundance of Mitochondrial Proteins in Dictyostelium discoideum. International Journal of Molecular Sciences, 2021, 22, 11675. | 4.1 | 2 |
| 92 | Mitochondrial Gene Expression and Dysfunction in Model Protozoa. , 2012, , 241-269. | | 1 |
| 93 | Analysis of Mitochondrial Gene Expression. Methods in Molecular Biology, 2013, 983, 325-344. | 0.9 | 1 |
| 94 | A Dictyostelium discoideum mitochondrial fluorescent tagging vector that does not affect respiratory function. Biochemistry and Biophysics Reports, 2020, 22, 100751. | 1.3 | 1 |
| 95 | Tau and its interactions with other proteins in neurodegenerative diseases. , 2020, , 447-462. | | 1 |
| 96 | Cytopathological Outcomes of Knocking down Expression of Mitochondrial Complex II Subunits in Dictyostelium discoideum. International Journal of Molecular Sciences, 2022, 23, 5039. | 4.1 | 1 |
| 97 | Legionella pneumophila multiplication is enhanced by chronic AMPK signalling in mitochondrially diseased Dictyostelium cells. DMM Disease Models and Mechanisms, 2009, 2, 516-516. | 2.4 | 0 |
| 98 | Cytopathological Mechanisms in Mitochondrial Disease. Current Chemical Biology, 2010, 4, 32-48. | 0.5 | 0 |
| 99 | Cell type-specific filamin complex regulation by a novel class of HECT ubiquitin ligase is required for normal cell motility and patterning. Journal of Cell Science, 2011, 124, e1-e1. | 2.0 | 0 |
| 100 | The millennium bugs. Microbiology Australia, 2012, 33, 119. | 0.4 | 0 |
| 101 | AMPK Subcellular Localisation in <i>Dictyostelium discoideum</i>. American Journal of Molecular Biology, 2015, 05, 105-116. | 0.3 | 0 |
| 102 | The DJ-1 gene and protein: links with Parkinson's disease. , 2020, , 35-49. | | 0 |
| 103 | The Dictyostelium Model for Mucolipidosis Type IV. Frontiers in Cell and Developmental Biology, 2022, 10, 741967. | 3.7 | 0 |
| 104 | Bidirectional phototaxis by Dictyostelium discoideum slugs. FEMS Microbiology Letters, 1981, 12, 87-89. | 1.8 | 0 |
| 105 | Phototaxis genes on linkage group V in Dictyostelium discoideum. FEMS Microbiology Letters, 1993, 111, 123-127. | 1.8 | 0 |