

Simon L Bullock

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

5,040
citations

126858

33
h-index

243529

44
g-index

55
all docs

55
docs citations

55
times ranked

5833
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Optimized CRISPR/Cas tools for efficient germline and somatic genome engineering in <i>Drosophila</i> . Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2967-76. | 3.3 | 947 |
| 2 | Augmenting CRISPR applications in <i>Drosophila</i> with tRNA-flanked sgRNAs. Nature Methods, 2016, 13, 852-854. | 9.0 | 370 |
| 3 | Subcellular mRNA Localization in Animal Cells and Why It Matters. Science, 2009, 326, 1212-1216. | 6.0 | 352 |
| 4 | <i>In vitro</i> reconstitution of a highly processive recombinant human dynein complex. EMBO Journal, 2014, 33, 1855-1868. | 3.5 | 341 |
| 5 | Growth and Early Postimplantation Defects in Mice Deficient for the Bromodomain-Containing Protein Brd4. Molecular and Cellular Biology, 2002, 22, 3794-3802. | 1.1 | 279 |
| 6 | Conserved signals and machinery for RNA transport in <i>Drosophila</i> oogenesis and embryogenesis. Nature, 2001, 414, 611-616. | 13.7 | 254 |
| 7 | Safeguarding gene drive experiments in the laboratory. Science, 2015, 349, 927-929. | 6.0 | 254 |
| 8 | Egalitarian is a selective RNA-binding protein linking mRNA localization signals to the dynein motor. Genes and Development, 2009, 23, 1546-1558. | 2.7 | 190 |
| 9 | The Molecular Phenotype of Heparan Sulfate in the <i>Hs2st^Δ/Δ</i> Mutant Mouse. Journal of Biological Chemistry, 2001, 276, 35429-35434. | 1.6 | 155 |
| 10 | Guidance of Bidirectional Motor Complexes by mRNA Cargoes through Control of Dynein Number and Activity. Current Biology, 2006, 16, 1447-1452. | 1.8 | 117 |
| 11 | DYNC1H1 mutations associated with neurological diseases compromise processivity of dynein-dynactin cargo adaptor complexes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1597-E1606. | 3.3 | 101 |
| 12 | Single-molecule assays reveal that RNA localization signals regulate dynein-dynactin copy number on individual transcript cargoes. Nature Cell Biology, 2012, 14, 416-423. | 4.6 | 92 |
| 13 | Δ -form RNA helices are required for cytoplasmic mRNA transport in <i>Drosophila</i> . Nature Structural and Molecular Biology, 2010, 17, 703-709. | 3.6 | 87 |
| 14 | Lis1 activates dynein motility by modulating its pairing with dynactin. Nature Cell Biology, 2020, 22, 570-578. | 4.6 | 86 |
| 15 | Phenotypic and molecular insights into spinal muscular atrophy due to mutations in BICD2. Brain, 2015, 138, 293-310. | 3.7 | 82 |
| 16 | Systematic Evaluation of <i>Drosophila</i> CRISPR Tools Reveals Safe and Robust Alternatives to Autonomous Gene Drives in Basic Research. G3: Genes, Genomes, Genetics, 2015, 5, 1493-1502. | 0.8 | 80 |
| 17 | Lisencephaly-1 is a context-dependent regulator of the human dynein complex. ELife, 2017, 6, . | 2.8 | 80 |
| 18 | Bicaudal-D uses a parallel, homodimeric coiled coil with heterotypic registry to coordinate recruitment of cargoes to dynein. Genes and Development, 2013, 27, 1233-1246. | 2.7 | 79 |

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|----|--|------|-----------|
| 19 | RNA-directed activation of cytoplasmic dynein-1 in reconstituted transport RNPs. <i>Elife</i> , 2018, 7, . | 2.8 | 72 |
| 20 | Lissencephaly-1 promotes the recruitment of dynein and dynactin to transported mRNAs. <i>Journal of Cell Biology</i> , 2013, 202, 479-494. | 2.3 | 70 |
| 21 | The <i>Drosophila</i> hairy RNA localization signal modulates the kinetics of cytoplasmic mRNA transport. <i>EMBO Journal</i> , 2003, 22, 2484-2494. | 3.5 | 68 |
| 22 | Messengers, motors and mysteries: sorting of eukaryotic mRNAs by cytoskeletal transport. <i>Biochemical Society Transactions</i> , 2011, 39, 1161-1165. | 1.6 | 68 |
| 23 | A stem-loop structure directs <i>oskar</i> mRNA to microtubule minus ends. <i>Rna</i> , 2014, 20, 429-439. | 1.6 | 62 |
| 24 | Bicaudal-D Regulates Fragile X Mental Retardation Protein Levels, Motility, and Function during Neuronal Morphogenesis. <i>Current Biology</i> , 2010, 20, 1487-1492. | 1.8 | 61 |
| 25 | SnapShot: Subcellular mRNA Localization. <i>Cell</i> , 2017, 169, 178-178.e1. | 13.5 | 57 |
| 26 | <i>C9orf72</i> -derived arginine-containing dipeptide repeats associate with axonal transport machinery and impede microtubule-based motility. <i>Science Advances</i> , 2021, 7, . | 4.7 | 57 |
| 27 | Differential cytoplasmic mRNA localisation adjusts pair-rule transcription factor activity to cytoarchitecture in dipteran evolution. <i>Development (Cambridge)</i> , 2004, 131, 4251-4261. | 1.2 | 52 |
| 28 | A cAMP/PKA/Kinesin-1 Axis Promotes the Axonal Transport of Mitochondria in Aging <i>Drosophila</i> Neurons. <i>Current Biology</i> , 2018, 28, 1265-1272.e4. | 1.8 | 52 |
| 29 | Bicaudal-D binds clathrin heavy chain to promote its transport and augments synaptic vesicle recycling. <i>EMBO Journal</i> , 2010, 29, 992-1006. | 3.5 | 49 |
| 30 | A simple method for imaging axonal transport in aging neurons using the adult <i>Drosophila</i> wing. <i>Nature Protocols</i> , 2016, 11, 1711-1723. | 5.5 | 49 |
| 31 | inscuteable mRNA Localization Is Dynein-Dependent and Regulates Apicobasal Polarity and Spindle Length in <i>Drosophila</i> Neuroblasts. <i>Current Biology</i> , 2004, 14, 1950-1956. | 1.8 | 46 |
| 32 | The influence of dynein processivity control, MAPs, and microtubule ends on directional movement of a localising mRNA. <i>Elife</i> , 2014, 3, e01596. | 2.8 | 46 |
| 33 | Specific modification of heparan sulphate is required for normal cerebral cortical development. <i>Mechanisms of Development</i> , 2003, 120, 1481-1488. | 1.7 | 45 |
| 34 | Translocation of mRNAs by molecular motors: Think complex?. <i>Seminars in Cell and Developmental Biology</i> , 2007, 18, 194-201. | 2.3 | 42 |
| 35 | Reducing Lissencephaly-1 levels augments mitochondrial transport and has a protective effect in adult <i>Drosophila</i> neurons. <i>Journal of Cell Science</i> , 2016, 129, 178-90. | 1.2 | 42 |
| 36 | Recognition of the <i>bcd</i> mRNA Localization Signal in <i>Drosophila</i> Embryos and Ovaries. <i>Molecular and Cellular Biology</i> , 2005, 25, 1501-1510. | 1.1 | 33 |

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|----|--|-----|-----------|
| 37 | Creating Heritable Mutations in <i>Drosophila</i> with CRISPR-Cas9. <i>Methods in Molecular Biology</i> , 2016, 1478, 145-160. | 0.4 | 27 |
| 38 | Dynein Associates with oskar mRNPs and Is Required For Their Efficient Net Plus-End Localization in <i>Drosophila</i> Oocytes. <i>PLoS ONE</i> , 2013, 8, e80605. | 1.1 | 25 |
| 39 | Altered dynein-dependent transport in piRNA pathway mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9691-9696. | 3.3 | 14 |
| 40 | The <i>Drosophila</i> MAST kinase Drop out is required to initiate membrane compartmentalisation during cellularisation and regulates dynein-based transport. <i>Development (Cambridge)</i> , 2014, 141, 2119-2130. | 1.2 | 12 |
| 41 | A High-Throughput Cellular Screening Assay for Small-Molecule Inhibitors and Activators of Cytoplasmic Dynein-1-Based Cargo Transport. <i>SLAS Discovery</i> , 2020, 25, 985-999. | 1.4 | 4 |
| 42 | Cell polarity: Oskar seeks PARTner for a stable relationship. <i>Nature Cell Biology</i> , 2002, 4, E117-E118. | 4.6 | 3 |
| 43 | Reply: The p.Ser107Leu in BICD2 is a mutation "hot spot" causing distal spinal muscular atrophy. <i>Brain</i> , 2015, 138, e392-e392. | 3.7 | 1 |
| 44 | Meeting report " Nuclear and cytoplasmic molecular machines at work. <i>Journal of Cell Science</i> , 2020, 133, . | 1.2 | 1 |
| 45 | The <i>Drosophila</i> MAST kinase Drop out is required to initiate membrane compartmentalisation during cellularisation and regulates dynein-based transport. <i>Journal of Cell Science</i> , 2014, 127, e1-e1. | 1.2 | 0 |