# Mary E Dickinson

List of Publications by Year
in descending order



| 63 | 3,699 | 26 | 52 |
|---|---|---|---|
| papers | citations | h-index | g-index |
| | | 218677 | 175258 |

| 68 | 68 | 68 | 7740 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Identifying genetic determinants of inflammatory pain in mice using a large-scale gene-targeted screen. Pain, 2022, 163, 1139-1157. | 4.2 | 4 |
| 2 | AAV5 delivery of CRISPR-Cas9 supports effective genome editing in mouse lung airway. Molecular Therapy, 2022, 30, 238-243. | 8.2 | 25 |
| 3 | Extensive identification of genes involved in congenital and structural heart disorders and cardiomyopathy. , 2022, 1, 157-173. | | 22 |
| 4 | FOXO1 represses sprouty 2 and sprouty 4 expression to promote arterial specification and vascular remodeling in the mouse yolk sac. Development (Cambridge), 2022, 149, . | 2.5 | 5 |
| 5 | A resource of targeted mutant mouse lines for 5,061 genes. Nature Genetics, 2021, 53, 416-419. | 21.4 | 60 |
| 6 | The NIH Somatic Cell Genome Editing program. Nature, 2021, 592, 195-204. | 27.8 | 84 |
| 7 | COPB2 loss of function causes a coatopathy with osteoporosis and developmental delay. American Journal of Human Genetics, 2021, 108, 1710-1724. | 6.2 | 18 |
| 8 | Soft windowing application to improve analysis of high-throughput phenotyping data. Bioinformatics, 2020, 36, 1492-1500. | 4.1 | 9 |
| 9 | <scp>CreLite</scp>: An optogenetically controlled Cre/<scp>loxP</scp> system using red light. Developmental Dynamics, 2020, 249, 1394-1403. | 1.8 | 13 |
| 10 | A global Slc7a7 knockout mouse model demonstrates characteristic phenotypes of human lysinuric protein intolerance. Human Molecular Genetics, 2020, 29, 2171-2184. | 2.9 | 15 |
| 11 | The occurrence of tarsal injuries in male mice of C57BL/6N substrains in multiple international mouse facilities. PLoS ONE, 2020, 15, e0230162. | 2.5 | 1 |
| 12 | The Deep Genome Project. Genome Biology, 2020, 21, 18. | 8.8 | 30 |
| 13 | Human and mouse essentiality screens as a resource for disease gene discovery. Nature Communications, 2020, 11, 655. | 12.8 | 64 |
| 14 | Mouse mutant phenotyping at scale reveals novel genes controlling bone mineral density. PLoS Genetics, 2020, 16, e1009190. | 3.5 | 19 |
| 15 | High Resolution Imaging of Mouse Embryos and Neonates with Xâ€Ray Microâ€Computed Tomography. Current Protocols in Mouse Biology, 2019, 9, e63. | 1.2 | 10 |
| 16 | Bi-allelic Variants in TONSL Cause SPONASTRIME Dysplasia and a Spectrum of Skeletal Dysplasia Phenotypes. American Journal of Human Genetics, 2019, 104, 422-438. | 6.2 | 27 |
| 17 | The role of FREM2 and FRAS1 in the development of congenital diaphragmatic hernia. Human Molecular Genetics, 2018, 27, 2064-2075. | 2.9 | 16 |
| 18 | Identification of genes required for eye development by high-throughput screening of mouse knockouts. Communications Biology, 2018, 1, 236. | 4.4 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Rapid and Integrative Discovery of Retina Regulatory Molecules. Cell Reports, 2018, 24, 2506-2519. | 6.4 | 28 |
| 20 | Comparative analysis of single-stranded DNA donors to generate conditional null mouse alleles. BMC Biology, 2018, 16, 69. | 3.8 | 64 |
| 21 | The effects of reduced hemodynamic loading on morphogenesis of the mouse embryonic heart. Developmental Biology, 2018, 442, 127-137. | 2.0 | 13 |
| 22 | The phenotypic and functional properties of mouse yolk-sac-derived embryonic macrophages. Developmental Biology, 2018, 442, 138-154. | 2.0 | 18 |
| 23 | Biallelic Variants in OTUD6B Cause an Intellectual Disability Syndrome Associated with Seizures and Dysmorphic Features. American Journal of Human Genetics, 2017, 100, 676-688. | 6.2 | 54 |
| 24 | Advanced 3D and Live Imaging Reveals Phenotypic Consequences of Disruptions in Mechanical and Genetic Mechanisms Underlying Embryonic Cardiovascular Development. Microscopy and Microanalysis, 2017, 23, 1172-1173. | 0.4 | 0 |
| 25 | A large scale hearing loss screen reveals an extensive unexplored genetic landscape for auditory dysfunction. Nature Communications, 2017, 8, 886. | 12.8 | 116 |
| 26 | Loss of Apela Peptide in Mice Causes Low Penetrance Embryonic Lethality and Defects in Early Mesodermal Derivatives. Cell Reports, 2017, 20, 2116-2130. | 6.4 | 53 |
| 27 | Prevalence of sexual dimorphism in mammalian phenotypic traits. Nature Communications, 2017, 8, 15475. | 12.8 | 200 |
| 28 | Disease model discovery from 3,328 gene knockouts by The International Mouse Phenotyping Consortium. Nature Genetics, 2017, 49, 1231-1238. | 21.4 | 216 |
| 29 | Comparison and combination of rotational imaging optical coherence tomography and selective plane illumination microscopy for embryonic study. Biomedical Optics Express, 2017, 8, 4629. | 2.9 | 16 |
| 30 | Establishing Three Dimensional High Throughput Imaging Pipeline for Deep Phenotyping Mouse Embryonic Development. Microscopy and Microanalysis, 2016, 22, 1024-1025. | 0.4 | 0 |
| 31 | Lineage tracing of Sox2-expressing progenitor cells in the mouse inner ear reveals a broad contribution to non-sensory tissues and insights into the origin of the organ of Corti. Developmental Biology, 2016, 414, 72-84. | 2.0 | 48 |
| 32 | Applicability, usability, and limitations of murine embryonic imaging with optical coherence tomography and optical projection tomography. Biomedical Optics Express, 2016, 7, 2295. | 2.9 | 23 |
| 33 | Three-dimensional microCT imaging of mouse development from early post-implantation to early postnatal stages. Developmental Biology, 2016, 419, 229-236. | 2.0 | 43 |
| 34 | High-throughput discovery of novel developmental phenotypes. Nature, 2016, 537, 508-514. | 27.8 | 1,001 |
| 35 | Lethal lung hypoplasia and vascular defects in mice with conditional<i>Foxf1</i>overexpression. Biology Open, 2016, 5, 1595-1606. | 1.2 | 20 |
| 36 | Optical coherence tomography for embryonic imaging: a review. Journal of Biomedical Optics, 2016, 21, 1. | 2.6 | 53 |

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|---|---|---|---|
| 37 | Cancer-Associated Fibroblasts Induce a Collagen Cross-link Switch in Tumor Stroma. Molecular Cancer Research, 2016, 14, 287-295. | 3.4 | 150 |
| 38 | RONIN Is an Essential Transcriptional Regulator of Genes Required for Mitochondrial Function in the Developing Retina. Cell Reports, 2016, 14, 1684-1697. | 6.4 | 28 |
| 39 | Rotational imaging optical coherence tomography for full-body mouse embryonic imaging. Journal of Biomedical Optics, 2016, 21, 1. | 2.6 | 19 |
| 40 | Biomimetic Surface Patterning Promotes Mesenchymal Stem Cell Differentiation. ACS Applied Materials & Interfaces, 2016, 8, 21883-21892. | 8.0 | 34 |
| 41 | Recapitulation and Modulation of the Cellular Architecture of a User-Chosen Cell of Interest Using Cell-Derived, Biomimetic Patterning. ACS Nano, 2015, 9, 6128-6138. | 14.6 | 20 |
| 42 | Yap and Taz play a crucial role in neural crest-derived craniofacial development. Development (Cambridge), 2015, 143, 504-15. | 2.5 | 62 |
| 43 | Ca2+ permeation and/or binding to CaV1.1 fine-tunes skeletal muscle Ca2+ signaling to sustain muscle function. Skeletal Muscle, 2015, 5, 4. | 4.2 | 43 |
| 44 | Macrophages engulf endothelial cell membrane particles preceding pupillary membrane capillary regression. Developmental Biology, 2015, 403, 30-42. | 2.0 | 31 |
| 45 | Simultaneous <i>inÂvivo</i> imaging of blood and lymphatic vessel growth in Prox1â€“<scp>GFP</scp>/Flk1::myrâ€“mCherry mice. FEBS Journal, 2015, 282, 1458-1467. | 4.7 | 24 |
| 46 | Improved Angiogenesis in Response to Localized Delivery of Macrophage-Recruiting Molecules. PLoS ONE, 2015, 10, e0131643. | 2.5 | 43 |
| 47 | Cardiovascular Patterning as Determined by Hemodynamic Forces and Blood Vessel Genetics. PLoS ONE, 2015, 10, e0137175. | 2.5 | 6 |
| 48 | Wnt-Responsive Cancer Stem Cells Are Located Close to Distorted Blood Vessels and Not in Hypoxic Regions in a p53-Null Mouse Model of Human Breast Cancer. Stem Cells Translational Medicine, 2014, 3, 857-866. | 3.3 | 8 |
| 49 | Quantitative imaging of cell dynamics in mouse embryos using light-sheet microscopy. Development (Cambridge), 2014, 141, 4406-4414. | 2.5 | 84 |
| 50 | Three-dimensional vasculature reconstruction of tumour microenvironment via local clustering and classification. Interface Focus, 2013, 3, 20130015. | 3.0 | 7 |
| 51 | Dynamic responses of endothelial cells to changes in blood flow during vascular remodeling of the mouse yolk sac. Development (Cambridge), 2013, 140, 4041-4050. | 2.5 | 151 |
| 52 | Patterning: Three-Dimensional Biomimetic Patterning in Hydrogels to Guide Cellular Organization (Adv. Mater. 17/2012). Advanced Materials, 2012, 24, 2343-2343. | 21.0 | 0 |
| 53 | Coupling Oriented Hidden Markov Random Field Model with Local Clustering for Segmenting Blood Vessels and Measuring Spatial Structures in Images of Tumor Microenvironment. , 2011, , . | | 4 |
| 54 | Highlights of the special imaging issue. Genesis, 2011, 49, spcone-spcone. | 1.6 | 0 |

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|---|---|---|---|
| 55 | Studying mammalian development with optical coherence tomography. , 2011, , . | | 0 |
| 56 | Abstract P125: Sunitinib-Induced Cardiomyopathy Is Due to PDGFR-aÌ•Inhibition and Can Be Prevented by Cotreatment with Thalidomide. Circulation Research, 2011, 109, . | 4.5 | 0 |
| 57 | Vascular remodeling of the mouse yolk sac requires hemodynamic force. Development (Cambridge), 2007, 134, 3317-3326. | 2.5 | 418 |
| 58 | Understanding Dynamic Events in Vasculogenesis & Remodeling in Mammalian Embryos Using Live Cell Imaging. FASEB Journal, 2007, 21, A133. | 0.5 | 0 |
| 59 | Vascular Remodeling of the Mouse Yolk Sac Requires Hydraulic Force. FASEB Journal, 2007, 21, A230. | 0.5 | 1 |
| 60 | 4D, Highâ€speed Confocal Imaging Reveals Functional Changes During Cardiac Development in Vertebrate Embryos. FASEB Journal, 2007, 21, A2. | 0.5 | 0 |
| 61 | Retinoic acid regulates the specification and survival of hemogenic endothelium during murine embryogenesis. FASEB Journal, 2007, 21, A185. | 0.5 | 0 |
| 62 | Multimodal imaging of mouse development: Tools for the postgenomic era. Developmental Dynamics, 2006, 235, 2386-2400. | 1.8 | 56 |
| 63 | Using a histone yellow fluorescent protein fusion for tagging and tracking endothelial cells in ES cells and mice. Genesis, 2005, 42, 162-171. | 1.6 | 81 |