

Richard A Baldock

List of Publications by Year in descending order

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103
papers

6,074
citations

109321

35
h-index

76900

74
g-index

114
all docs

114
docs citations

114
times ranked

10406
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Optical Projection Tomography as a Tool for 3D Microscopy and Gene Expression Studies. <i>Science</i> , 2002, 296, 541-545. | 12.6 | 1,129 |
| 2 | The BioMart community portal: an innovative alternative to large, centralized data repositories. <i>Nucleic Acids Research</i> , 2015, 43, W589-W598. | 14.5 | 682 |
| 3 | A High-Resolution Anatomical Atlas of the Transcriptome in the Mouse Embryo. <i>PLoS Biology</i> , 2011, 9, e1000582. | 5.6 | 552 |
| 4 | Visualization of image data from cells to organisms. <i>Nature Methods</i> , 2010, 7, S26-S41. | 19.0 | 226 |
| 5 | The GUDMAP database – an online resource for genitourinary research. <i>Development (Cambridge)</i> , 2011, 138, 2845-2853. | 2.5 | 226 |
| 6 | Spatial organization of active and inactive genes and noncoding DNA within chromosome territories. <i>Journal of Cell Biology</i> , 2002, 157, 579-589. | 5.2 | 207 |
| 7 | The European dimension for the mouse genome mutagenesis program. <i>Nature Genetics</i> , 2004, 36, 925-927. | 21.4 | 195 |
| 8 | BioMart Central Portal: an open database network for the biological community. <i>Database: the Journal of Biological Databases and Curation</i> , 2011, 2011, bar041-bar041. | 3.0 | 145 |
| 9 | EMAGE mouse embryo spatial gene expression database: 2014 update. <i>Nucleic Acids Research</i> , 2014, 42, D835-D844. | 14.5 | 126 |
| 10 | A high-resolution anatomical ontology of the developing murine genitourinary tract. <i>Gene Expression Patterns</i> , 2007, 7, 680-699. | 0.8 | 125 |
| 11 | The Virtual Fly Brain browser and query interface. <i>Bioinformatics</i> , 2012, 28, 411-415. | 4.1 | 124 |
| 12 | An internet-accessible database of mouse developmental anatomy based on a systematic nomenclature. <i>Mechanisms of Development</i> , 1998, 74, 111-120. | 1.7 | 123 |
| 13 | EMAP and EMAGE: A Framework for Understanding Spatially Organized Data. <i>Neuroinformatics</i> , 2003, 1, 309-326. | 2.8 | 109 |
| 14 | Digital Atlasing and Standardization in the Mouse Brain. <i>PLoS Computational Biology</i> , 2011, 7, e1001065. | 3.2 | 109 |
| 15 | An illustrated anatomical ontology of the developing mouse lower urogenital tract. <i>Development (Cambridge)</i> , 2015, 142, 1893-1908. | 2.5 | 108 |
| 16 | EMAGE: a spatial database of gene expression patterns during mouse embryo development. <i>Nucleic Acids Research</i> , 2006, 34, D637-D641. | 14.5 | 88 |
| 17 | EMAGE mouse embryo spatial gene expression database: 2010 update. <i>Nucleic Acids Research</i> , 2010, 38, D703-D709. | 14.5 | 86 |
| 18 | The IKMC web portal: a central point of entry to data and resources from the International Knockout Mouse Consortium. <i>Nucleic Acids Research</i> , 2011, 39, D849-D855. | 14.5 | 83 |

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|----|--|------|-----------|
| 19 | 3 dimensional modelling of early human brain development using optical projection tomography. BMC Neuroscience, 2004, 5, 27. | 1.9 | 69 |
| 20 | Deciphering the Mechanisms of Developmental Disorders (DMDD): a new programme for phenotyping embryonic lethal mice. DMM Disease Models and Mechanisms, 2013, 6, 562-6. | 2.4 | 65 |
| 21 | Bloomsbury report on mouse embryo phenotyping: recommendations from the IMPC workshop on embryonic lethal screening. DMM Disease Models and Mechanisms, 2013, 6, 571-9. | 2.4 | 63 |
| 22 | A Three-Dimensional Model of the Mouse at Embryonic Day 9. Developmental Biology, 1999, 216, 457-468. | 2.0 | 62 |
| 23 | Bioinformatics integration and agent technology. Journal of Biomedical Informatics, 2004, 37, 205-219. | 4.3 | 60 |
| 24 | Bioinformatics beyond sequence: mapping gene function in the embryo. Nature Reviews Genetics, 2001, 2, 409-417. | 16.3 | 59 |
| 25 | The Mouse Limb Anatomy Atlas: An interactive 3D tool for studying embryonic limb patterning. BMC Developmental Biology, 2008, 8, 83. | 2.1 | 55 |
| 26 | Robust point correspondence applied to two- and three-dimensional image registration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2001, 23, 165-179. | 13.9 | 51 |
| 27 | Integrating technologies for comparing 3D gene expression domains in the developing chick limb. Developmental Biology, 2008, 317, 13-23. | 2.0 | 46 |
| 28 | EMAP/EMAPA ontology of mouse developmental anatomy: 2013 update. Journal of Biomedical Semantics, 2013, 4, 15. | 1.6 | 46 |
| 29 | Mouse anatomy ontologies: enhancements and tools for exploring and integrating biomedical data. Mammalian Genome, 2015, 26, 422-430. | 2.2 | 45 |
| 30 | Automatic reconstruction of serial sections using the finite element method. Bioimaging, 1995, 3, 154-167. | 1.3 | 41 |
| 31 | Alpha cluster states in ^{16}O . Nuclear Physics A, 1984, 426, 222-252. | 1.5 | 40 |
| 32 | The HUDSEN Atlas: a three-dimensional (3D) spatial framework for studying gene expression in the developing human brain. Journal of Anatomy, 2010, 217, 289-299. | 1.5 | 40 |
| 33 | What's New? A real mouse for your computer. BioEssays, 1992, 14, 501-502. | 2.5 | 37 |
| 34 | An ontology of human developmental anatomy. Journal of Anatomy, 2003, 203, 347-355. | 1.5 | 36 |
| 35 | Anatomical and gene expression mapping of the ventral pallium in a three-dimensional model of developing human brain. Neuroscience, 2005, 136, 625-632. | 2.3 | 36 |
| 36 | Formalization of mouse embryo anatomy. Bioinformatics, 2004, 20, 259-267. | 4.1 | 35 |

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|----|---|------|-----------|
| 37 | eMouseAtlas, EMAGE, and the spatial dimension of the transcriptome. <i>Mammalian Genome</i> , 2012, 23, 514-524. | 2.2 | 35 |
| 38 | A strategy to discover new organizers identifies a putative heart organizer. <i>Nature Communications</i> , 2016, 7, 12656. | 12.8 | 31 |
| 39 | Functional tissue units and their primary tissue motifs in multi-scale physiology. <i>Journal of Biomedical Semantics</i> , 2013, 4, 22. | 1.6 | 30 |
| 40 | Plasticity of striatopallidal terminals following unilateral lesion of the dopaminergic nigrostriatal pathway: a morphological study. <i>Experimental Brain Research</i> , 1997, 116, 39-49. | 1.5 | 28 |
| 41 | Deciphering the mechanisms of developmental disorders: phenotype analysis of embryos from mutant mouse lines. <i>Nucleic Acids Research</i> , 2016, 44, D855-D861. | 14.5 | 27 |
| 42 | eMouseAtlas: An atlas-based resource for understanding mammalian embryogenesis. <i>Developmental Biology</i> , 2017, 423, 1-11. | 2.0 | 27 |
| 43 | 3D modelling, gene expression mapping and post-mapping image analysis in the developing human brain. <i>Brain Research Bulletin</i> , 2005, 66, 449-453. | 3.0 | 26 |
| 44 | EMAGE—Edinburgh Mouse Atlas of Gene Expression: 2008 update. <i>Nucleic Acids Research</i> , 2008, 36, D860-D865. | 14.5 | 26 |
| 45 | The atlas of mouse development eHistology resource. <i>Development (Cambridge)</i> , 2015, 142, 1909-1911. | 2.5 | 26 |
| 46 | Web tools for large-scale 3D biological images and atlases. <i>BMC Bioinformatics</i> , 2012, 13, 122. | 2.6 | 25 |
| 47 | The Mouse Atlas Database: a community resource for mouse development. <i>Trends in Genetics</i> , 2001, 17, 49-51. | 6.7 | 23 |
| 48 | Cyberinfrastructure for the digital brain: spatial standards for integrating rodent brain atlases. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 74. | 2.5 | 20 |
| 49 | Deducing the stage of origin of Wilms' tumours from a developmental series of <i>Wt1</i> mutants. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 903-17. | 2.4 | 19 |
| 50 | Automatic reconstruction of serial sections using the finite element method. <i>Bioimaging</i> , 1995, 3, 154-167. | 1.3 | 18 |
| 51 | Identification of genes downstream of the Shh signalling in the developing chick wing and syn-expressed with <i>Hoxd13</i> using microarray and 3D computational analysis. <i>Mechanisms of Development</i> , 2010, 127, 428-441. | 1.7 | 18 |
| 52 | eMouseAtlas informatics: embryo atlas and gene expression database. <i>Mammalian Genome</i> , 2015, 26, 431-440. | 2.2 | 17 |
| 53 | Video camera calibration for optical densitometry. <i>Journal of Microscopy</i> , 1993, 172, 49-54. | 1.8 | 15 |
| 54 | JAtlasView: a Java atlas-viewer for browsing biomedical 3D images and atlases. <i>BMC Bioinformatics</i> , 2005, 6, 47. | 2.6 | 14 |

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|----|---|-----|-----------|
| 55 | Constrained distance transforms for spatial atlas registration. BMC Bioinformatics, 2015, 16, 90. | 2.6 | 14 |
| 56 | Three-dimensional reconstruction of tetraploid<->diploid chimaeric mouse blastocysts. Journal of Anatomy, 2000, 196, 341-346. | 1.5 | 13 |
| 57 | A criticality-based framework for task composition in multi-agent bioinformatics integration systems. Bioinformatics, 2005, 21, 3155-3163. | 4.1 | 13 |
| 58 | Automatically identifying and annotating mouse embryo gene expression patterns. Bioinformatics, 2011, 27, 1101-1107. | 4.1 | 13 |
| 59 | eChickAtlas: An introduction to the database. Genesis, 2013, 51, 365-371. | 1.6 | 13 |
| 60 | Bloomsbury report on mouse embryo phenotyping: recommendations from the IMPC workshop on embryonic lethal screening. DMM Disease Models and Mechanisms, 2013, 6, 1049-1049. | 2.4 | 13 |
| 61 | A 3D molecular atlas of the chick embryonic heart. Developmental Biology, 2019, 456, 40-46. | 2.0 | 13 |
| 62 | The BioMart interface to the eMouseAtlas gene expression database EMAGE. Database: the Journal of Biological Databases and Curation, 2011, 2011, bar029. | 3.0 | 12 |
| 63 | Access and Use of the GLUDMAP Database of Genitourinary Development. Methods in Molecular Biology, 2012, 886, 185-201. | 0.9 | 12 |
| 64 | PhenolImageShare: an image annotation and query infrastructure. Journal of Biomedical Semantics, 2016, 7, 35. | 1.6 | 12 |
| 65 | Elucidating the Genetic Networks of Development: A Bioinformatics Approach. Genome Research, 1998, 8, 859-863. | 5.5 | 11 |
| 66 | Anatomical ontologies: names and places in biology. Genome Biology, 2005, 6, 108. | 9.6 | 11 |
| 67 | Mining Spatial Gene Expression Data for Association Rules. Lecture Notes in Computer Science, 2007, , 66-76. | 1.3 | 11 |
| 68 | EMAGE: Electronic Mouse Atlas of Gene Expression. Methods in Molecular Biology, 2014, 1092, 61-79. | 0.9 | 11 |
| 69 | Trainable models for the interpretation of biomedical images. Image and Vision Computing, 1992, 10, 444-449. | 4.5 | 9 |
| 70 | The SOFG Anatomy Entry List (SAEL): An Annotation Tool for Functional Genomics Data. Comparative and Functional Genomics, 2004, 5, 521-527. | 2.0 | 9 |
| 71 | The Open Physiology workflow: modeling processes over physiology circuitboards of interoperable tissue units. Frontiers in Physiology, 2015, 6, 24. | 2.8 | 9 |
| 72 | Pleiotropic Effects of Sox2 during the Development of the Zebrafish Epithalamus. PLoS ONE, 2014, 9, e87546. | 2.5 | 8 |

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|----|--|-----|-----------|
| 73 | Biomedical Atlases: Systematics, Informatics and Analysis. <i>Advances in Experimental Medicine and Biology</i> , 2012, 736, 655-677. | 1.6 | 7 |
| 74 | Automating Gene Expression Annotation for Mouse Embryo. <i>Lecture Notes in Computer Science</i> , 2009, , 469-478. | 1.3 | 7 |
| 75 | Integrating partonomic hierarchies in anatomy ontologies. <i>BMC Bioinformatics</i> , 2004, 5, 184. | 2.6 | 6 |
| 76 | Developing the eHistology Atlas. <i>Database: the Journal of Biological Databases and Curation</i> , 2015, 2015, bav105. | 3.0 | 5 |
| 77 | eHistology image and annotation data from the Kaufman Atlas of Mouse Development. <i>GigaScience</i> , 2018, 7, . | 6.4 | 5 |
| 78 | The Edinburgh Mouse Atlas. <i>Computational Biology</i> , 2008, , 249-265. | 0.2 | 5 |
| 79 | Woolz IIP: A Tiled On-the-Fly Sectioning Server for 3D Volumetric Atlases. <i>Lecture Notes in Computer Science</i> , 2009, , 924-933. | 1.3 | 5 |
| 80 | From spatial-data to 3D models of the developing human brain. <i>Methods</i> , 2010, 50, 96-104. | 3.8 | 4 |
| 81 | Automatic data reuse for accelerating data intensive applications in the Cloud. , 2013, , . | | 4 |
| 82 | A Multi-agent Bioinformatics Integration System with Adjustable Autonomy. <i>Lecture Notes in Computer Science</i> , 2002, , 492-501. | 1.3 | 3 |
| 83 | A Scalable Mediator Approach to Process Large Biomedical 3-D Images. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2004, 8, 354-359. | 3.2 | 3 |
| 84 | Enhancing Parallelism of Data-Intensive Bioinformatics Applications. , 2013, , . | | 3 |
| 85 | The Edinburgh Mouse Atlas: Basic Structure and Informatics. , 2002, , 129-140. | | 3 |
| 86 | Integrated analysis of Wnt signalling system component gene expression. <i>Development (Cambridge)</i> , 2022, 149, . | 2.5 | 3 |
| 87 | Bringing the grid to the biomedical workbench. , 0, , . | | 2 |
| 88 | An E-infrastructure to Support Collaborative Embryo Research. , 2009, , . | | 2 |
| 89 | Augmented Petri Net Cost Model for Optimisation of Large Bioinformatics Workflows Using Cloud. , 2013, , . | | 2 |
| 90 | Automatic data reuse for accelerating data intensive applications in the Cloud. , 2013, , . | | 2 |

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|-----|--|-----|-----------|
| 91 | Anatomical Ontologies: Linking Names to Places in Biology. Computational Biology, 2008, , 197-211. | 0.2 | 2 |
| 92 | Gene Expression Databases. , 1997, , 247-268. | | 2 |
| 93 | A multi-agent bioinformatics integration system with adjustable autonomy. , 2002, , . | | 1 |
| 94 | Integrating volumetric biomedical data in the virtual physiological human. , 2011, , . | | 1 |
| 95 | The "straight mouse"™: defining anatomical axes in 3D embryo models. Database: the Journal of Biological Databases and Curation, 2017, 2017, . | 3.0 | 1 |
| 96 | Distributed Processing of Large BioMedical 3D Images. Lecture Notes in Computer Science, 2005, , 142-155. | 1.3 | 1 |
| 97 | The Edinburgh Mouse Atlas Project: Data Mapping and Spatial Organisation. FASEB Journal, 2007, 21, A201. | 0.5 | 1 |
| 98 | Matching Spatial Regions with Combinations of Interacting Gene Expression Patterns. Communications in Computer and Information Science, 2008, , 347-361. | 0.5 | 1 |
| 99 | Deducing the stage of origin of Wilms' tumours from a developmental series of Wt1-mutant mice. Development (Cambridge), 2015, 142, e1.2-e1.2. | 2.5 | 1 |
| 100 | Image Warping through Geometric Model Decomposition. , 2002, , . | | 0 |
| 101 | Computational Methods and Bioinformatic Tools. , 0, , 769-904. | | 0 |
| 102 | Coronal Sections. , 2016, , 3-49. | | 0 |
| 103 | Management of Spatially Organized Biological Data using EMAGE. , 2009, , 469-484. | | 0 |