Richard A Baldock

List of Publications by Year
in descending order

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	Integrated analysis of Wnt signalling system component gene expression. Development (Cambridge), 2022, 149, .	2.5	3
2	A 3D molecular atlas of the chick embryonic heart. Developmental Biology, 2019, 456, 40-46.	2.0	13
3	eHistology image and annotation data from the Kaufman Atlas of Mouse Development. GigaScience, 2018, 7, .	6.4	5
4	eMouseAtlas: An atlas-based resource for understanding mammalian embryogenesis. Developmental Biology, 2017, 423, 1-11.	2.0	27
5	The â€˜straight mouseâ€™: defining anatomical axes in 3D embryo models. Database: the Journal of Biological Databases and Curation, 2017, 2017, .	3.0	1
6	Coronal Sections. , 2016, , 3-49.		0
7	A strategy to discover new organizers identifies a putative heart organizer. Nature Communications, 2016, 7, 12656.	12.8	31
8	PhenoImageShare: an image annotation and query infrastructure. Journal of Biomedical Semantics, 2016, 7, 35.	1.6	12
9	Deciphering the mechanisms of developmental disorders: phenotype analysis of embryos from mutant mouse lines. Nucleic Acids Research, 2016, 44, D855-D861.	14.5	27
10	Developing the eHistology Atlas. Database: the Journal of Biological Databases and Curation, 2015, 2015, bav105.	3.0	5
11	The atlas of mouse development eHistology resource. Development (Cambridge), 2015, 142, 1909-1911.	2.5	26
12	Deducing the stage of origin of Wilms' tumours from a developmental series of Wt1 mutants. DMM Disease Models and Mechanisms, 2015, 8, 903-17.	2.4	19
13	The BioMart community portal: an innovative alternative to large, centralized data repositories. Nucleic Acids Research, 2015, 43, W589-W598.	14.5	682
14	The Open Physiology workflow: modeling processes over physiology circuitboards of interoperable tissue units. Frontiers in Physiology, 2015, 6, 24.	2.8	9
15	Constrained distance transforms for spatial atlas registration. BMC Bioinformatics, 2015, 16, 90.	2.6	14
16	An illustrated anatomical ontology of the developing mouse lower urogenital tract. Development (Cambridge), 2015, 142, 1893-1908.	2.5	108
17	Mouse anatomy ontologies: enhancements and tools for exploring and integrating biomedical data. Mammalian Genome, 2015, 26, 422-430.	2.2	45
18	eMouseAtlas informatics: embryo atlas and gene expression database. Mammalian Genome, 2015, 26, 431-440.	2.2	17

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19	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
20	Pleiotropic Effects of Sox2 during the Development of the Zebrafish Epithalamus. PLoS ONE, 2014, 9, e87546.	2.5	8
21	Cyberinfrastructure for the digital brain: spatial standards for integrating rodent brain atlases. Frontiers in Neuroinformatics, 2014, 8, 74.	2.5	20
22	EMAGE mouse embryo spatial gene expression database: 2014 update. Nucleic Acids Research, 2014, 42, D835-D844.	14.5	126
23	EMAGE: Electronic Mouse Atlas of Gene Expression. Methods in Molecular Biology, 2014, 1092, 61-79.	0.9	11
24	Functional tissue units and their primary tissue motifs in multi-scale physiology. Journal of Biomedical Semantics, 2013, 4, 22.	1.6	30
25	EMAP/EMAPA ontology of mouse developmental anatomy: 2013 update. Journal of Biomedical Semantics, 2013, 4, 15.	1.6	46
26	Augmented Petri Net Cost Model for Optimisation of Large Bioinformatics Workflows Using Cloud. , 2013, , .		2
27	Enhancing Parallelism of Data-Intensive Bioinformatics Applications. , 2013, , .		3
28	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
29	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
30	eChickAtlas: An introduction to the database. Genesis, 2013, 51, 365-371.	1.6	13
31	Automatic data reuse for accelerating data intensive applications in the Cloud. , 2013, , .		2
32	Automatic data reuse for accelerating data intensive applications in the Cloud. , 2013, , .		4
33	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
34	eMouseAtlas, EMAGE, and the spatial dimension of the transcriptome. Mammalian Genome, 2012, 23, 514-524.	2.2	35
35	The Virtual Fly Brain browser and query interface. Bioinformatics, 2012, 28, 411-415.	4.1	124
36	Access and Use of the GUDMAP Database of Genitourinary Development. Methods in Molecular Biology, 2012, 886, 185-201.	0.9	12

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37	Web tools for large-scale 3D biological images and atlases. BMC Bioinformatics, 2012, 13, 122.	2.6	25
38	Biomedical Atlases: Systematics, Informatics and Analysis. Advances in Experimental Medicine and Biology, 2012, 736, 655-677.	1.6	7
39	The GUDMAP database â€“ an online resource for genitourinary research. Development (Cambridge), 2011, 138, 2845-2853.	2.5	226
40	BioMart Central Portal: an open database network for the biological community. Database: the Journal of Biological Databases and Curation, 2011, 2011, bar041-bar041.	3.0	145
41	A High-Resolution Anatomical Atlas of the Transcriptome in the Mouse Embryo. PLoS Biology, 2011, 9, e1000582.	5.6	552
42	Digital Atlasing and Standardization in the Mouse Brain. PLoS Computational Biology, 2011, 7, e1001065.	3.2	109
43	The BioMart interface to the eMouseAtlas gene expression database EMAGE. Database: the Journal of Biological Databases and Curation, 2011, 2011, bar029.	3.0	12
44	Automatically identifying and annotating mouse embryo gene expression patterns. Bioinformatics, 2011, 27, 1101-1107.	4.1	13
45	Integrating volumetric biomedical data in the virtual physiological human. , 2011, , .		1
46	The IKMC web portal: a central point of entry to data and resources from the International Knockout Mouse Consortium. Nucleic Acids Research, 2011, 39, D849-D855.	14.5	83
47	The HUDSEN Atlas: a threeâ€dimensional (3D) spatial framework for studying gene expression in the developing human brain. Journal of Anatomy, 2010, 217, 289-299.	1.5	40
48	Visualization of image data from cells to organisms. Nature Methods, 2010, 7, S26-S41.	19.0	226
49	EMAGE mouse embryo spatial gene expression database: 2010 update. Nucleic Acids Research, 2010, 38, D703-D709.	14.5	86
50	Identification of genes downstream of the Shh signalling in the developing chick wing and syn-expressed with Hoxd13 using microarray and 3D computational analysis. Mechanisms of Development, 2010, 127, 428-441.	1.7	18
51	From spatial-data to 3D models of the developing human brain. Methods, 2010, 50, 96-104.	3.8	4
52	An E-infrastructure to Support Collaborative Embryo Research. , 2009, , .		2
53	Automating Gene Expression Annotation for Mouse Embryo. Lecture Notes in Computer Science, 2009, , 469-478.	1.3	7
54	Woolz IIP: A Tiled On-the-Fly Sectioning Server for 3D Volumetric Atlases. Lecture Notes in Computer Science, 2009, , 924-933.	1.3	5

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55	Management of Spatially Organized Biological Data using EMAGE. , 2009, , 469-484.		0
56	The Mouse Limb Anatomy Atlas: An interactive 3D tool for studying embryonic limb patterning. BMC Developmental Biology, 2008, 8, 83.	2.1	55
57	Integrating technologies for comparing 3D gene expression domains in the developing chick limb. Developmental Biology, 2008, 317, 13-23.	2.0	46
58	EMAGEâ€"Edinburgh Mouse Atlas of Gene Expression: 2008 update. Nucleic Acids Research, 2008, 36, D860-D865.	14.5	26
59	The Edinburgh Mouse Atlas. Computational Biology, 2008, , 249-265.	0.2	5
60	Matching Spatial Regions with Combinations of Interacting Gene Expression Patterns. Communications in Computer and Information Science, 2008, , 347-361.	0.5	1
61	Anatomical Ontologies: Linking Names to Places in Biology. Computational Biology, 2008, , 197-211.	0.2	2
62	Mining Spatial Gene Expression Data for Association Rules. Lecture Notes in Computer Science, 2007, , 66-76.	1.3	11
63	A high-resolution anatomical ontology of the developing murine genitourinary tract. Gene Expression Patterns, 2007, 7, 680-699.	0.8	125
64	The Edinburgh Mouse Atlas Project: Data Mapping and Spatial Organisation. FASEB Journal, 2007, 21, A201.	0.5	1
65	EMAGE: a spatial database of gene expression patterns during mouse embryo development. Nucleic Acids Research, 2006, 34, D637-D641.	14.5	88
66	JAtlasView: a Java atlas-viewer for browsing biomedical 3D images and atlases. BMC Bioinformatics, 2005, 6, 47.	2.6	14
67	A criticality-based framework for task composition in multi-agent bioinformatics integration systems. Bioinformatics, 2005, 21, 3155-3163.	4.1	13
68	3D modelling, gene expression mapping and post-mapping image analysis in the developing human brain. Brain Research Bulletin, 2005, 66, 449-453.	3.0	26
69	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
70	Anatomical ontologies: names and places in biology. Genome Biology, 2005, 6, 108.	9.6	11
71	Distributed Processing of Large BioMedical 3D Images. Lecture Notes in Computer Science, 2005, , 142-155.	1.3	1
72	Formalization of mouse embryo anatomy. Bioinformatics, 2004, 20, 259-267.	4.1	35

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73	The European dimension for the mouse genome mutagenesis program. Nature Genetics, 2004, 36, 925-927.	21.4	195
74	A Scalable Mediator Approach to Process Large Biomedical 3-D Images. IEEE Transactions on Information Technology in Biomedicine, 2004, 8, 354-359.	3.2	3
75	Integrating partonomic hierarchies in anatomy ontologies. BMC Bioinformatics, 2004, 5, 184.	2.6	6
76	3 dimensional modelling of early human brain development using optical projection tomography. BMC Neuroscience, 2004, 5, 27.	1.9	69
77	Bioinformatics integration and agent technology. Journal of Biomedical Informatics, 2004, 37, 205-219.	4.3	60
78	The SOFG Anatomy Entry List (SAEL): An Annotation Tool for Functional Genomics Data. Comparative and Functional Genomics, 2004, 5, 521-527.	2.0	9
79	EMAP and EMAGE: A Framework for Understanding Spatially Organized Data. Neuroinformatics, 2003, 1, 309-326.	2.8	109
80	An ontology of human developmental anatomy. Journal of Anatomy, 2003, 203, 347-355.	1.5	36
81	A Multi-agent Bioinformatics Integration System with Adjustable Autonomy. Lecture Notes in Computer Science, 2002, , 492-501.	1.3	3
82	Spatial organization of active and inactive genes and noncoding DNA within chromosome territories. Journal of Cell Biology, 2002, 157, 579-589.	5.2	207
83	A multi-agent bioinformatics integration system with adjustable autonomy. , 2002, , .		1
84	Image Warping through Geometric Model Decomposition. , 2002, , .		0
85	Optical Projection Tomography as a Tool for 3D Microscopy and Gene Expression Studies. Science, 2002, 296, 541-545.	12.6	1,129
86	The Edinburgh Mouse Atlas: Basic Structure and Informatics. , 2002, , 129-140.		3
87	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
88	Bioinformatics beyond sequence: mapping gene function in the embryo. Nature Reviews Genetics, 2001, 2, 409-417.	16.3	59
89	The Mouse Atlas Database: a community resource for mouse development. Trends in Genetics, 2001, 17, 49-51.	6.7	23
90	Three-dimensional reconstruction of tetraploid<->diploid chimaeric mouse blastocysts. Journal of Anatomy, 2000, 196, 341-346.	1.5	13

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91	A Three-Dimensional Model of the Mouse at Embryonic Day 9. Developmental Biology, 1999, 216, 457-468.	2.0	62
92	An internet-accessible database of mouse developmental anatomy based on a systematic nomenclature. Mechanisms of Development, 1998, 74, 111-120.	1.7	123
93	Elucidating the Genetic Networks of Development: A Bioinformatics Approach. Genome Research, 1998, 8, 859-863.	5.5	11
94	Plasticity of striatopallidal terminals following unilateral lesion of the dopaminergic nigrostriatal pathway: a morphological study. Experimental Brain Research, 1997, 116, 39-49.	1.5	28
95	Gene Expression Databases. , 1997, , 247-268.		2
96	Automatic reconstruction of serial sections using the finite element method. Bioimaging, 1995, 3, 154-167.	1.3	18
97	Automatic reconstruction of serial sections using the finite element method. Bioimaging, 1995, 3, 154-167.	1.3	41
98	Video camera calibration for optical densitometry. Journal of Microscopy, 1993, 172, 49-54.	1.8	15
99	Trainable models for the interpretation of biomedical images. Image and Vision Computing, 1992, 10, 444-449.	4.5	9
100	What's New? A real mouse for your computer. BioEssays, 1992, 14, 501-502.	2.5	37
101	Alpha cluster states in 16O. Nuclear Physics A, 1984, 426, 222-252.	1.5	40
102	Bringing the grid to the biomedical workbench. , 0, , .		2
103	Computational Methods and Bioinformatic Tools. , 0, , 769-904.		0