Richard Francis

List of Publications by Year
in descending order

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46 papers	2,999 citations	172207 29 h-index	264894 42 g-index
46 all docs	46 docs citations	46 times ranked	5096 citing authors

#	Article	IF	Citations
1	Global genetic analysis in mice unveils central role for cilia in congenital heart disease. Nature, 2015, 521, 520-524.	13.7	357
2	DYX1C1 is required for axonemal dynein assembly and ciliary motility. Nature Genetics, 2013, 45, 995-1003.	9.4	256
3	IFT27 Links the BBSome to IFT for Maintenance of the Ciliary Signaling Compartment. Developmental Cell, 2014, 31, 279-290.	3.1	225
4	Connexin43 Associated with an N-cadherin-containing Multiprotein Complex Is Required for Gap Junction Formation in NIH3T3 Cells. Journal of Biological Chemistry, 2005, 280, 19925-19936.	1.6	181
5	High Prevalence of Respiratory Ciliary Dysfunction in Congenital Heart Disease Patients With Heterotaxy. Circulation, 2012, 125, 2232-2242.	1.6	158
6	ARMC4 Mutations Cause Primary Ciliary Dyskinesia with Randomization of Left/Right Body Asymmetry. American Journal of Human Genetics, 2013, 93, 357-367.	2.6	150
7	Connexin 43-mediated modulation of polarized cell movement and the directional migration of cardiac neural crest cells. Development (Cambridge), 2006, 133, 3629-3639.	1.2	146
8	Discovery of four recessive developmental disorders using probabilistic genotype and phenotype matching among 4,125 families. Nature Genetics, 2015, 47, 1363-1369.	9.4	133
9	Connexin43 Modulates Cell Polarity and Directional Cell Migration by Regulating Microtubule Dynamics. PLoS ONE, 2011, 6, e26379.	1.1	99
10	Heterotaxy and complex structural heart defects in a mutant mouse model of primary ciliary dyskinesia. Journal of Clinical Investigation, 2007, 117, 3742-52.	3.9	94
11	DNAH6 and Its Interactions with PCD Genes in Heterotaxy and Primary Ciliary Dyskinesia. PLoS Genetics, 2016, 12, e1005821.	1.5	92
12	Wdpcp, a PCP Protein Required for Ciliogenesis, Regulates Directional Cell Migration and Cell Polarity by Direct Modulation of the Actin Cytoskeleton. PLoS Biology, 2013, 11, e1001720.	2.6	87
13	Connexin 43 regulates epicardial cell polarity and migration in coronary vascular development. Development (Cambridge), 2009, 136, 3185-3193.	1.2	80
14	Disruption of Mks1 localization to the mother centriole causes cilia defects and developmental malformations in Meckel-Gruber syndrome. DMM Disease Models and Mechanisms, 2011, 4, 43-56.	1.2	78
15	Bves directly interacts with GEFT, and controls cell shape and movement through regulation of Rac1/Cdc42 activity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8298-8303.	3.3	67
16	Massively parallel sequencing identifies the gene Megf8 with ENU-induced mutation causing heterotaxy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3219-3224.	3.3	57
17	Increased postoperative respiratory complications in heterotaxy congenital heart disease patients with respiratory ciliary dysfunction. Journal of Thoracic and Cardiovascular Surgery, 2014, 147, 1291-1298.e2.	0.4	50
18	Primordial germ cell deficiency in the connexin 43 knockout mouse arises from apoptosis associated with abnormal p53 activation. Development (Cambridge), 2006, 133, 3451-3460.	1.2	49

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19	Congenital heart disease and the specification of left-right asymmetry. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H2102-H2111.	1.5	48
20	ANKS6 is the critical activator of NEK8 kinase in embryonic situs determination and organ patterning. Nature Communications, 2015, 6, 6023.	5.8	43
21	Initiation and maturation of cilia-generated flow in newborn and postnatal mouse airway. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L1067-L1075.	1.3	42
22	Decellularized Tracheal Extracellular Matrix Supports Epithelial Migration, Differentiation, and Function. Tissue Engineering - Part A, 2015, 21, 75-84.	1.6	40
23	Airway Ciliary Dysfunction and Sinopulmonary Symptoms in Patients with Congenital Heart Disease. Annals of the American Thoracic Society, 2014, 11, 1426-1432.	1.5	38
24	Interrogating Congenital Heart Defects With Noninvasive Fetal Echocardiography in a Mouse Forward Genetic Screen. Circulation: Cardiovascular Imaging, 2014, 7, 31-42.	1.3	38
25	Microcomputed Tomography Provides High Accuracy Congenital Heart Disease Diagnosis in Neonatal and Fetal Mice. Circulation: Cardiovascular Imaging, 2013, 6, 551-559.	1.3	35
26	Ex vivo Method for High Resolution Imaging of Cilia Motility in Rodent Airway Epithelia. Journal of Visualized Experiments, 2013, , .	0.2	35
27	Automated identification of abnormal respiratory ciliary motion in nasal biopsies. Science Translational Medicine, 2015, 7, 299ra124.	5.8	35
28	Novel Jbts17 mutant mouse model of Joubert syndrome with cilia transition zone defects and cerebellar and other ciliopathy related anomalies. Human Molecular Genetics, 2015, 24, 3994-4005.	1.4	34
29	Imaging techniques for visualizing and phenotyping congenital heart defects in murine models. Birth Defects Research Part C: Embryo Today Reviews, 2013, 99, 93-105.	3.6	31
30	Assessment of ciliary phenotype in primary ciliary dyskinesia by micro-optical coherence tomography. JCI Insight, 2017, 2, e91702.	2.3	30
31	Changes in activin and activin receptor subunit expression in rat liver during the development of CCl4-induced cirrhosis. Molecular and Cellular Endocrinology, 2003, 201, 143-153.	1.6	29
32	Mouse Model of Heterotaxy with Single Ventricle Spectrum of Cardiac Anomalies. Pediatric Research, 2008, 63, 9-14.	1.1	28
33	The Effects of Temperature and Anesthetic Agents on Ciliary Function in Murine Respiratory Epithelia. Frontiers in Pediatrics, 2014, 2, 111.	0.9	27
34	Murine CENPF interacts with syntaxin 4 in the regulation of vesicular transport. Journal of Cell Science, 2008, 121, 3413-3421.	1.2	21
35	Distribution of Raphespinal Fibers in the Mouse Spinal Cord. Molecular Pain, 2015, 11, s12990-015-0046.	1.0	21
36	Endothelin Receptor A Blockade Ameliorates Hypothermic Ischemiaâ€“Reperfusion-Related Microhemodynamic Disturbances during Liver Transplantation in the Rat. Journal of Surgical Research, 2002, 102, 63-70.	0.8	17

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37	Ion Torrent sequencing for conducting genome-wide scans for mutation mapping analysis. Mammalian Genome, 2014, 25, 120-128.	1.0	15
38	Ventricular Rotation Is Independent of Cardiac Looping: A Study in Mice With Situs Inversus Totalis Using Speckle-Tracking Echocardiography. Journal of the American Society of Echocardiography, 2010, 23, 315-323.	1.2	9
39	3D imaging of PSD-95 in the mouse brain using the advanced CUBIC method. Molecular Brain, 2018, 11, 50.	1.3	7
40	Quantifying cilia beat frequency using highâ€speed video microscopy: Assessing frame rate requirements when imaging different ciliated tissues. Physiological Reports, 2022, 10, .	0.7	6
41	Dexmedetomidine and Fentanyl Exhibit Temperature Dependent Effects on Human Respiratory Cilia. Frontiers in Pediatrics, 2015, 3, 7.	0.9	5
42	Exploring the Genetic Basis for Congenital Heart Disease with Mouse ENU Mutagenesis. , 2010, , 753-778.		2
43	Novel use of differential image velocity invariants to categorize ciliary motion defects. , 2011, , .		2
44	CUBIC Protocol Visualizes Protein Expression at Single Cell Resolution in Whole Mount Skin Preparations. Journal of Visualized Experiments, 2016, , .	0.2	2
45	Ultra-high frequency ultrasound biomicroscopy and high throughput cardiovascular phenotyping in a large scale mouse mutagenesis screen. Proceedings of SPIE, 2013, , .	0.8	0
46	Disruption of Mks1 localization to the mother centriole causes cilia defects and developmental malformations in Meckelâ€“Gruber syndrome. Journal of Cell Science, 2011, 124, e1-e1.	1.2	0