Robert G Kelly

List of Publications by Year
in descending order

126 papers	10,788 citations	36203 51 h-index	33814 99 g-index
140 all docs	140 docs citations	140 times ranked	8102 citing authors

#	Article	IF	Citations
1	Expression of Cd34 and Myf5 Defines the Majority of Quiescent Adult Skeletal Muscle Satellite Cells. Journal of Cell Biology, 2000, 151, 1221-1234.	2.3	795
2	The Arterial Pole of the Mouse Heart Forms from Fgf10-Expressing Cells in Pharyngeal Mesoderm. Developmental Cell, 2001, 1, 435-440.	3.1	764
3	T-Box Genes in Vertebrate Development. Annual Review of Genetics, 2005, 39, 219-239.	3.2	370
4	The Clonal Origin of Myocardial Cells in Different Regions of the Embryonic Mouse Heart. Developmental Cell, 2004, 6, 685-698.	3.1	346
5	Right Ventricular Myocardium Derives From the Anterior Heart Field. Circulation Research, 2004, 95, 261-268.	2.0	334
6	Distinct Regulatory Cascades Govern Extraocular and Pharyngeal Arch Muscle Progenitor Cell Fates. Developmental Cell, 2009, 16, 810-821.	3.1	323
7	Persistence in muscle of an adenoviral vector that lacks all viral genes. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 1645-1650.	3.3	297
8	The anterior heart-forming field: voyage to the arterial pole of the heart. Trends in Genetics, 2002, 18, 210-216.	2.9	260
9	Tbx2 is essential for patterning the atrioventricular canal and for morphogenesis of the outflow tract during heart development. Development (Cambridge), 2004, 131, 5041-5052.	1.2	258
10	Signaling Pathways Controlling Second Heart Field Development. Circulation Research, 2009, 104, 933-942.	2.0	241
11	Myosin light chain 3F regulatory sequences confer regionalized cardiac and skeletal muscle expression in transgenic mice.. Journal of Cell Biology, 1995, 129, 383-396.	2.3	234
12	The del22q11.2 candidate gene Tbx1 regulates branchiomeric myogenesis. Human Molecular Genetics, 2004, 13, 2829-2840.	1.4	230
13	Mouse DNA â€˜fingerprintsâ€™: analysis of chromosome localization and germ-line stability of hypervariable loci in recombinant inbred strains. Nucleic Acids Research, 1987, 15, 2823-2836.	6.5	222
14	Heart Fields and Cardiac Morphogenesis. Cold Spring Harbor Perspectives in Medicine, 2014, 4, a015750-a015750.	2.9	209
15	Characterization of a highly unstable mouse minisatellite locus: Evidence for somatic mutation during early development. Genomics, 1989, 5, 844-856.	1.3	206
16	A new heart for a new head in vertebrate cardiopharyngeal evolution. Nature, 2015, 520, 466-473.	13.7	201
17	Rotation of the Myocardial Wall of the Outflow Tract Is Implicated in the Normal Positioning of the Great Arteries. Circulation Research, 2006, 98, 421-428.	2.0	190
18	The Second Heart Field. Current Topics in Developmental Biology, 2012, 100, 33-65.	1.0	184

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19	Six1 and Eya1 Expression Can Reprogram Adult Muscle from the Slow-Twitch Phenotype into the Fast-Twitch Phenotype. Molecular and Cellular Biology, 2004, 24, 6253-6267.	1.1	172
20	Clonal analysis reveals common lineage relationships between head muscles and second heart field derivatives in the mouse embryo. Development (Cambridge), 2010, 137, 3269-3279.	1.2	171
21	Fgf10 dosage is critical for the amplification of epithelial cell progenitors and for the formation of multiple mesenchymal lineages during lung development. Developmental Biology, 2007, 307, 237-247.	0.9	169
22	Fgf10 expression identifies parabronchial smooth muscle cell progenitors and is required for their entry into the smooth muscle cell lineage. Development (Cambridge), 2005, 132, 2157-2166.	1.2	168
23	Capturing Cardiogenesis in Gastruloids. Cell Stem Cell, 2021, 28, 230-240.e6.	5.2	167
24	A retrospective clonal analysis of the myocardium reveals two phases of clonal growth in the developing mouse heart. Development (Cambridge), 2003, 130, 3877-3889.	1.2	143
25	Congenital coronary artery anomalies: a bridge from embryology to anatomy and pathophysiologyâ€"a position statement of the development, anatomy, and pathology ESC Working Group. Cardiovascular Research, 2016, 109, 204-216.	1.8	143
26	The del22q11.2 Candidate Gene<i>Tbx1</i>Controls Regional Outflow Tract Identity and Coronary Artery Patterning. Circulation Research, 2008, 103, 142-148.	2.0	134
27	High efficiency myogenic conversion of human fibroblasts by adenoviral vector-mediated MyoD gene transfer. An alternative strategy for ex vivo gene therapy of primary myopathies.. Journal of Clinical Investigation, 1998, 101, 2119-2128.	3.9	127
28	Relationship between Neural Crest Cells and Cranial Mesoderm during Head Muscle Development. PLoS ONE, 2009, 4, e4381.	1.1	122
29	<i>Fibroblast growth factor 10</i> gene regulation in the second heart field by Tbx1, Nkx2-5, and Islet1 reveals a genetic switch for down-regulation in the myocardium. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18273-18280.	3.3	109
30	Role of Mesodermal FGF8 and FGF10 Overlaps in the Development of the Arterial Pole of the Heart and Pharyngeal Arch Arteries. Circulation Research, 2010, 106, 495-503.	2.0	108
31	Tbx1 Coordinates Addition of Posterior Second Heart Field Progenitor Cells to the Arterial and Venous Poles of the Heart. Circulation Research, 2014, 115, 790-799.	2.0	105
32	A Tetranucleotide Repeat Mouse Minisatellite Displaying Substantial Somatic Instability during Early Preimplantation Development. Genomics, 1993, 17, 121-128.	1.3	104
33	Clonal analysis reveals a common origin between nonsomite-derived neck muscles and heart myocardium. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1446-1451.	3.3	103
34	Biphasic Development of the Mammalian Ventricular Conduction System. Circulation Research, 2010, 107, 153-161.	2.0	102
35	Myoblast differentiation during mammalian somitogenesis is dependent upon a community effect.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 2254-2258.	3.3	96
36	Multiple Transcriptional Domains, With Distinct Left and Right Components, in the Atrial Chambers of the Developing Heart. Circulation Research, 2000, 87, 984-991.	2.0	92

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37	Tbx3 Is Required for Outflow Tract Development. Circulation Research, 2008, 103, 743-750.	2.0	91
38	Organogenesis of the vertebrate heart. Wiley Interdisciplinary Reviews: Developmental Biology, 2013, 2, 17-29.	5.9	88
39	Congenital heart defects in Fgfr2-IIIb and Fgf10 mutant mice. Cardiovascular Research, 2006, 71, 50-60.	1.8	86
40	Molecular Inroads into the Anterior Heart Field. Trends in Cardiovascular Medicine, 2005, 15, 51-56.	2.3	84
41	Decreased Levels of Embryonic Retinoic Acid Synthesis Accelerate Recovery From Arterial Growth Delay in a Mouse Model of DiGeorge Syndrome. Circulation Research, 2010, 106, 686-694.	2.0	82
42	A single-cell transcriptional roadmap for cardiopharyngeal fate diversification. Nature Cell Biology, 2019, 21, 674-686.	4.6	78
43	New developments in the second heart field. Differentiation, 2012, 84, 17-24.	1.0	77
44	Hes1 Is Expressed in the Second Heart Field and Is Required for Outflow Tract Development. PLoS ONE, 2009, 4, e6267.	1.1	77
45	Left and right ventricular contributions to the formation of the interventricular septum in the mouse heart. Developmental Biology, 2006, 294, 366-375.	0.9	76
46	Identification of a Tbx1/Tbx2/Tbx3 genetic pathway governing pharyngeal and arterial pole morphogenesis. Human Molecular Genetics, 2012, 21, 1217-1229.	1.4	68
47	A Second Heart Field-Derived Vasculogenic Niche Contributes to Cardiac Lymphatics. Developmental Cell, 2020, 52, 350-363.e6.	3.1	67
48	TBX1 regulates epithelial polarity and dynamic basal filopodia in the second heart field. Development (Cambridge), 2014, 141, 4320-4331.	1.2	64
49	Regionalized Transcriptional Domains of Myosin Light Chain 3f Transgenes in the Embryonic Mouse Heart: Morphogenetic Implications. Developmental Biology, 1997, 188, 17-33.	0.9	63
50	Heartening news for head muscle development. Trends in Genetics, 2007, 23, 365-369.	2.9	63
51	Myocardium at the base of the aorta and pulmonary trunk is prefigured in the outflow tract of the heart and in subdomains of the second heart field. Developmental Biology, 2008, 313, 25-34.	0.9	62
52	Endothelial Plasticity Drives Arterial Remodeling Within the Endocardium After Myocardial Infarction. Circulation Research, 2015, 116, 1765-1771.	2.0	61
53	A Cranial Mesoderm Origin for Esophagus Striated Muscles. Developmental Cell, 2015, 34, 694-704.	3.1	61
54	T-box genes and retinoic acid signaling regulate the segregation of arterial and venous pole progenitor cells in the murine second heart field. Human Molecular Genetics, 2018, 27, 3747-3760.	1.4	59

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55	Hes1 expression is reduced in Tbx1 null cells and is required for the development of structures affected in 22q11 deletion syndrome. Developmental Biology, 2010, 340, 369-380.	0.9	57
56	FGF10 promotes regional foetal cardiomyocyte proliferation and adult cardiomyocyte cell-cycle re-entry. Cardiovascular Research, 2014, 104, 432-442.	1.8	57
57	Spontaneous mutation at the hypervariable mouse minisatellite locus Ms6-hm : flanking DNA sequence and analysis of germline and early somatic mutation events. Proceedings of the Royal Society B: Biological Sciences, 1991, 245, 235-245.	1.2	55
58	Loss of Wnt5a disrupts second heart field cell deployment and may contribute to OFT malformations in DiGeorge syndrome. Human Molecular Genetics, 2015, 24, 1704-1716.	1.4	54
59	Unique morphogenetic signatures define mammalian neck muscles and associated connective tissues. ELife, 2018, 7, .	2.8	52
60	Establishment of the mouse ventricular conduction system. Cardiovascular Research, 2011, 91, 232-242.	1.8	50
61	Visualization of outflow tract development in the absence ofTbx1 using anFgF10 enhancer trap transgene. Developmental Dynamics, 2007, 236, 821-828.	0.8	49
62	Embryonic and Fetal Myogenic Programs Act through Separate Enhancers at the MLC1F/3F Locus. Developmental Biology, 1997, 187, 183-199.	0.9	48
63	Properties of branchiomeric and somiteâ€derived muscle development in <i>Tbx1</i> mutant embryos. Developmental Dynamics, 2008, 237, 3071-3078.	0.8	48
64	<i>Tbx1</i>, subpulmonary myocardium and conotruncal congenital heart defects. Birth Defects Research Part A: Clinical and Molecular Teratology, 2011, 91, 477-484.	1.6	47
65	Analysis ofMlc-lacZ Met mutants highlights the essential function of Met for migratory precursors of hypaxial muscles and reveals a role for Met in the development of hyoid arch-derived facial muscles. Developmental Dynamics, 2004, 231, 582-591.	0.8	44
66	Second heart field cardiac progenitor cells in the early mouse embryo. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 795-798.	1.9	44
67	Suppression of atrial myosin gene expression occurs independently in the left and right ventricles of the developing mouse heart. , 2000, 217, 75-85.		43
68	Localization and fate of Fgf10-expressing cells in the adult mouse brain implicate Fgf10 in control of neurogenesis. Molecular and Cellular Neurosciences, 2008, 37, 857-868.	1.0	43
69	Epithelial Properties of the Second Heart Field. Circulation Research, 2018, 122, 142-154.	2.0	42
70	Hox-dependent coordination of mouse cardiac progenitor cell patterning and differentiation. ELife, 2020, 9, .	2.8	41
71	Inducible Cx40â€Cre expression in the cardiac conduction system and arterial endothelial cells. Genesis, 2011, 49, 83-91.	0.8	39
72	Deletion of Nkx2-5 in trabecular myocardium reveals the developmental origins of pathological heterogeneity associated with ventricular non-compaction cardiomyopathy. PLoS Genetics, 2018, 14, e1007502.	1.5	37

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73	Cardiopharyngeal mesoderm origins of musculoskeletal and connective tissues in the mammalian pharynx. Development (Cambridge), 2020, 147, .	1.2	36
74	Epithelial tension in the second heart field promotes mouse heart tube elongation. Nature Communications, 2017, 8, 14770.	5.8	34
75	Single cell multi-omic analysis identifies a Tbx1-dependent multilineage primed population in murine cardiopharyngeal mesoderm. Nature Communications, 2021, 12, 6645.	5.8	31
76	Tbx1 regulates extracellular matrix-cell interactions in the second heart field. Human Molecular Genetics, 2019, 28, 2295-2308.	1.4	30
77	Core issues in craniofacial myogenesis. Experimental Cell Research, 2010, 316, 3034-3041.	1.2	29
78	Resolving cell lineage contributions to the ventricular conduction system with a Cx40â€GFP allele: A dual contribution of the first and second heart fields. Developmental Dynamics, 2013, 242, 665-677.	0.8	28
79	Cardiosensor Mice and Transcriptional Subdomains of the Vertebrate Heart. Trends in Cardiovascular Medicine, 1999, 9, 3-10.	2.3	26
80	Coronary stem development in wildâ€type and <i>Tbx1</i> null mouse hearts. Developmental Dynamics, 2016, 245, 445-459.	0.8	26
81	Dynamic Left/Right Regionalisation of Endogenous Myosin Light Chain 3F Transcripts in the Developing Mouse Heart. Journal of Molecular and Cellular Cardiology, 1998, 30, 1067-1081.	0.9	25
82	MLC3F transgene expression iniv mutant mice reveals the importance of left-right signalling pathways for the acquisition of left and right atrial but not ventricular compartment identity. Developmental Dynamics, 2001, 221, 206-215.	0.8	24
83	Defects in Trabecular Development Contribute to Left Ventricular Noncompaction. Pediatric Cardiology, 2019, 40, 1331-1338.	0.6	24
84	Fibre type-specific and nerve-dependent regulation of myosin light chain 1 slow promoter in regenerating muscle. Journal of Muscle Research and Cell Motility, 1997, 18, 369-373.	0.9	22
85	Prdm1 functions in the mesoderm of the second heart field, where it interacts genetically with Tbx1, during outflow tract morphogenesis in the mouse embryo. Human Molecular Genetics, 2014, 23, 5087-5101.	1.4	21
86	Similar Origins of Two Mouse Minisatellites within Transposon-like LTRs. Genomics, 1994, 24, 509-515.	1.3	20
87	Limitations of nlsÎ²-galactosidase as a marker for studying myogenic lineage or the efficacy of myoblast transfer. The Anatomical Record, 1997, 248, 40-50.	2.3	19
88	Emergence of heart and branchiomeric muscles in cardiopharyngeal mesoderm. Experimental Cell Research, 2022, 410, 112931.	1.2	16
89	FGF10 promotes cardiac repair through a dual cellular mechanism increasing cardiomyocyte renewal and inhibiting fibrosis. Cardiovascular Research, 2022, 118, 2625-2637.	1.8	16
90	Integration of embryonic and fetal skeletal myogenic programs at the myosin light chain 1f/3f locus. Developmental Biology, 2008, 313, 420-433.	0.9	15

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91	Loss of Tbx3 in murine neural crest reduces enteric glia and causes cleft palate, but does not influence heart development or bowel transit. Developmental Biology, 2018, 444, S337-S351.	0.9	15
92	Nkx2-5 defines distinct scaffold and recruitment phases during formation of the murine cardiac Purkinje fiber network. Nature Communications, 2020, 11, 5300.	5.8	15
93	Regionalization of Transcriptional Potential in the Myocardium. , 1999, , 333-355.		15
94	Modular regulation of theMLC1F/3F gene and striated muscle diversity. Microscopy Research and Technique, 2000, 50, 510-521.	1.2	14
95	Segregation of Central Ventricular Conduction System Lineages in Early SMA+ Cardiomyocytes Occurs Prior to Heart Tube Formation. Journal of Cardiovascular Development and Disease, 2016, 3, 2.	0.8	13
96	Building the Right Ventricle. Circulation Research, 2007, 100, 943-945.	2.0	10
97	Alteration in myosatellite cell commitment with muscle maturation. , 1998, 211, 141-152.		9
98	The mouse Ink4a/Arf locus: a p53 pile-up at a tumour surveillance crossroads?. Trends in Genetics, 2003, 19, 81-83.	2.9	9
99	Cell history determines the maintenance of transcriptional differences between left and right ventricular cardiomyocytes in the developing mouse heart. Journal of Cell Science, 2003, 116, 5005-5013.	1.2	8
100	Manipulating Myosin Light Chain 2 Isoforms In Vivo. Circulation Research, 1997, 80, 751-753.	2.0	8
101	New Insights into the Development and Morphogenesis of the Cardiac Purkinje Fiber Network: Linking Architecture and Function. Journal of Cardiovascular Development and Disease, 2021, 8, 95.	0.8	7
102	Monitoring Clonal Growth in the Developing Ventricle. Pediatric Cardiology, 2009, 30, 603-608.	0.6	4
103	The Second Heart Field. , 2010, , 143-169.		4
104	Properties of Cardiac Progenitor Cells in the Second Heart Field. , 2016, , 177-182.		4
105	Distinct Regulatory Cascades Govern Extraocular and Pharyngeal Arch Muscle Progenitor Cell Fates. Developmental Cell, 2009, 17, 150.	3.1	3
106	Irx3: A Conductor of Conduction. Circulation Research, 2011, 109, 984-985.	2.0	3
107	Contemporary cardiogenesis: new insights into heart development. Cardiovascular Research, 2011, 91, 183-184.	1.8	3
108	How Mesp1 makes a move. Journal of Cell Biology, 2016, 213, 411-413.	2.3	3

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109	Integrating Matrix Signals During Arch Artery Morphogenesis. Circulation Research, 2021, 128, 360-362.	2.0	2
110	La Souris comme modÃ¨le dâ€™Ã©tude de la morphogenÃ¨se du cÅ“ur chez les MammifÃ¨res : croissance et lignage des myocytes. SociÃ©tÃ© De Biologie Journal, 2003, 197, 179-186.	0.3	1
111	La Souris comme modÃ¨le dâ€™Ã©tude de la morphogenÃ¨se du cÅ“ur chez les mammifÃ¨res : origine des myocytes et Ã©tudes dâ€™explants cardiaques. SociÃ©tÃ© De Biologie Journal, 2003, 197, 187-194.	0.3	1
112	Cardiovascular development: towards biomedical applicability. Cellular and Molecular Life Sciences, 2007, 64, 643-645.	2.4	1
113	Cardiac Development and Animal Models of Congenital Heart Defects. , 2016, , 3-9.		1
114	Cardiomyogenic Precursor Cells in the Mammalian Embryo: Induction, Heterogeneity, and Morphogenesis. , 2004, , 305-315.		1
115	<i>Hox</i>-Dependent Coordination of Cardiac Cell Patterning and Differentiation. SSRN Electronic Journal, 0, , .	0.4	1
116	Advances in the Second Heart Field. , 2020, , 301-307.		1
117	Myocardial cell lineages in the mammalian embryo: The second heart field. Journal of Molecular and Cellular Cardiology, 2006, 40, 992.	0.9	0
118	Inducible Cx40-Cre expression in the cardiac conduction system and arterial endothelial cells. Genesis, 2011, 49, spcone-spcone.	0.8	0
119	P318FGF10 regulates regional proliferation in the fetal heart through a FOXO3/p27kip1 pathway and promotes cell cycle reentry of adult cardiomyocytes. Cardiovascular Research, 2014, 103, S58.3-S58.	1.8	0
120	Adhesive Enrichment and Membrane Turnover at the Heart of Cardiopharyngeal Induction. Developmental Cell, 2015, 34, 490-492.	3.1	0
121	Molecular Pathways and Animal Models of Tetralogy of Fallot and Double Outlet Right Ventricle. , 2016, , 417-429.		0
122	Early Development of the Heart. , 2017, , .		0
123	Diverging roads to the heart. Science, 2018, 359, 1098-1099.	6.0	0
124	Regionalization of Transcriptional Potential in the Myocardium: â€˜Cardiosensorâ€™ Transgenic Mice. Developments in Cardiovascular Medicine, 1999, , 67-73.	0.1	0
125	The Transcriptional Building Blocks of the Heart. Developments in Cardiovascular Medicine, 1999, , 7-16.	0.1	0
126	Protocols for Investigating the Epithelial Properties of Cardiac Progenitor Cells in the Mouse Embryo. Methods in Molecular Biology, 2022, 2438, 231-250.	0.4	0