Thomas Braun

List of Publications by Year
in descending order

318 papers	26,352 citations	10389 72 h-index	7950 149 g-index
330 all docs	330 docs citations	330 times ranked	35278 citing authors

#	Article	IF	Citations
1	MyoD or Myf-5 is required for the formation of skeletal muscle. Cell, 1993, 75, 1351-1359.	28.9	1,484
2	Succinate Dehydrogenase Supports Metabolic Repurposing of Mitochondria to Drive Inflammatory Macrophages. Cell, 2016, 167, 457-470.e13.	28.9	1,396
3	Myostatin Mutation Associated with Gross Muscle Hypertrophy in a Child. New England Journal of Medicine, 2004, 350, 2682-2688.	27.0	1,238
4	Atheroprotective communication between endothelial cells and smooth muscle cells through miRNAs. Nature Cell Biology, 2012, 14, 249-256.	10.3	1,170
5	Inactivation of MyoD in mice leads to up-regulation of the myogenic HLH gene Myf-5 and results in apparently normal muscle development. Cell, 1992, 71, 383-390.	28.9	891
6	Long Noncoding RNA MALAT1 Regulates Endothelial Cell Function and Vessel Growth. Circulation Research, 2014, 114, 1389-1397.	4.5	815
7	Targeted inactivation of the muscle regulatory gene Myf-5 results in abnormal rib development and perinatal death. Cell, 1992, 71, 369-382.	28.9	643
8	Acquisition of the contractile phenotype by murine arterial smooth muscle cells depends on the Mir143/145 gene cluster. Journal of Clinical Investigation, 2009, 119, 2634-2647.	8.2	583
9	Transcriptional mechanisms regulating skeletal muscle differentiation, growth and homeostasis. Nature Reviews Molecular Cell Biology, 2011, 12, 349-361.	37.0	570
10	Sirt7 Increases Stress Resistance of Cardiomyocytes and Prevents Apoptosis and Inflammatory Cardiomyopathy in Mice. Circulation Research, 2008, 102, 703-710.	4.5	551
11	Obesity-induced overexpression of miRNA-143 inhibits insulin-stimulated AKT activation and impairs glucoseÂmetabolism. Nature Cell Biology, 2011, 13, 434-446.	10.3	472
12	FOXO1 couples metabolic activity and growth state in the vascular endothelium. Nature, 2016, 529, 216-220.	27.8	438
13	Pax7 directs postnatal renewal and propagation of myogenic satellite cells but not their specification. EMBO Journal, 2004, 23, 3430-3439.	7.8	437
14	Cardiomyocyte Regeneration. Circulation, 2017, 136, 680-686.	1.6	417
15	Loss of the abundant nuclear non-coding RNA<i>MALAT1</i>is compatible with life and development. RNA Biology, 2012, 9, 1076-1087.	3.1	355
16	Acetylation-dependent regulation of endothelial Notch signalling by the SIRT1 deacetylase. Nature, 2011, 473, 234-238.	27.8	350
17	ATAC-seq footprinting unravels kinetics of transcription factor binding during zygotic genome activation. Nature Communications, 2020, 11, 4267.	12.8	318
18	Oncostatin M Is a Major Mediator of Cardiomyocyte Dedifferentiation and Remodeling. Cell Stem Cell, 2011, 9, 420-432.	11.1	310

#	Article	IF	Citations
19	Efficient Homing of Multipotent Adult Mesenchymal Stem Cells Depends on FROUNT-Mediated Clustering of CCR2. Cell Stem Cell, 2008, 2, 566-575.	11.1	249
20	Specific requirements of MRFs for the expression of muscle specific microRNAs, miR-1, miR-206 and miR-133. Developmental Biology, 2008, 321, 491-499.	2.0	239
21	Development and Pathology of Pulmonary Hypertension. Journal of the American College of Cardiology, 2009, 54, S3-S9.	2.8	237
22	Myostatin and IGF-I signaling in end-stage human heart failure: a qRT-PCR study. Journal of Translational Medicine, 2015, 13, 1.	4.4	229
23	Myf5-Positive Satellite Cells Contribute to Pax7-Dependent Long-Term Maintenance of Adult Muscle Stem Cells. Cell Stem Cell, 2013, 13, 590-601.	11.1	225
24	Two-Way Conversion between Lipogenic and Myogenic Fibroblastic Phenotypes Marks the Progression and Resolution of Lung Fibrosis. Cell Stem Cell, 2017, 20, 261-273.e3.	11.1	217
25	Single cell RNA-seq and ATAC-seq analysis of cardiac progenitor cell transition states and lineage settlement. Nature Communications, 2018, 9, 4877.	12.8	174
26	SIRT7 Controls Hepatic Lipid Metabolism by Regulating the Ubiquitin-Proteasome Pathway. Cell Metabolism, 2014, 19, 712-721.	16.2	173
27	Early specification of limb muscle precursor cells by the homeobox gene Lbx1h. Nature Genetics, 1999, 23, 213-216.	21.4	167
28	Hematopoietic Deficiency of the Long Noncoding RNA MALAT1 Promotes Atherosclerosis and Plaque Inflammation. Circulation, 2019, 139, 1320-1334.	1.6	165
29	Genetic analysis of interactions between the somitic muscle, cartilage and tendon cell lineages during mouse development. Development (Cambridge), 2005, 132, 515-528.	2.5	161
30	Cardiomyocyte-specific IÎºB kinase (IKK)/NF-ÎºB activation induces reversible inflammatory cardiomyopathy and heart failure. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11794-11799.	7.1	150
31	Myocardial healing requires Reg3Î²-dependent accumulation of macrophages in the ischemic heart. Nature Medicine, 2015, 21, 353-362.	30.7	141
32	Sca1-Derived Cells Are a Source of Myocardial Renewal in the Murine Adult Heart. Stem Cell Reports, 2013, 1, 397-410.	4.8	140
33	Bronchioalveolar stem cells are a main source for regeneration of distal lung epithelia <i>in vivo</i>. EMBO Journal, 2019, 38, .	7.8	140
34	Reversible reprogramming of cardiomyocytes to a fetal state drives heart regeneration in mice. Science, 2021, 373, 1537-1540.	12.6	135
35	Re-programming of newt cardiomyocytes is induced by tissue regeneration. Journal of Cell Science, 2006, 119, 4719-4729.	2.0	128
36	Jumonji domain-containing protein 6 (Jmjd6) is required for angiogenic sprouting and regulates splicing of VEGF-receptor 1. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3276-3281.	7.1	128

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37	Transcriptional activation domain of the muscle-specific gene-regulatory protein myf5. Nature, 1990, 346, 663-665.	27.8	127
38	RBM24 Is a Major Regulator of Muscle-Specific Alternative Splicing. Developmental Cell, 2014, 31, 87-99.	7.0	127
39	Myogenin's Functions Do Not Overlap with Those of MyoD or Myf-5 during Mouse Embryogenesis. Developmental Biology, 1995, 172, 37-50.	2.0	124
40	Regulation of Skeletal Muscle Stem Cell Quiescence by Suv4-20h1-Dependent Facultative Heterochromatin Formation. Cell Stem Cell, 2016, 18, 229-242.	11.1	122
41	Phosphodiesterase-4 promotes proliferation and angiogenesis of lung cancer by crosstalk with HIF. Oncogene, 2013, 32, 1121-1134.	5.9	120
42	4 Genetics of Muscle Determination and Development. Current Topics in Developmental Biology, 1999, 48, 129-164.	2.2	116
43	Regulation of Cardiomyocyte Polyploidy and Multinucleation by CyclinG1. Circulation Research, 2010, 106, 1498-1506.	4.5	113
44	The Myogenic Factor Myf5 Supports Efficient Skeletal Muscle Regeneration by Enabling Transient Myoblast Amplification. Stem Cells, 2007, 25, 2006-2016.	3.2	112
45	HMGA proteins as modulators of chromatin structure during transcriptional activation. Frontiers in Cell and Developmental Biology, 2014, 2, 5.	3.7	109
46	Pax-3 is necessary but not sufficient for lbx1 expression in myogenic precursor cells of the limb. Mechanisms of Development, 1998, 73, 147-158.	1.7	107
47	Cellular Cardiomyoplasty: Improvement of Left Ventricular Function Correlates with the Release of Cardioactive Cytokines. Stem Cells, 2007, 25, 236-244.	3.2	106
48	Developmental alterations in centrosome integrity contribute to the post-mitotic state of mammalian cardiomyocytes. ELife, 2015, 4, .	6.0	105
49	A de novo assembly of the newt transcriptome combined with proteomic validation identifies new protein families expressed during tissue regeneration. Genome Biology, 2013, 14, R16.	9.6	104
50	miR-1/133a Clusters Cooperatively Specify the Cardiomyogenic Lineage by Adjustment of Myocardin Levels during Embryonic Heart Development. PLoS Genetics, 2013, 9, e1003793.	3.5	103
51	A highly conserved enhancer downstream of the human MLC1/3 locus is a target for multiple myogenic determination factors. Nucleic Acids Research, 1990, 18, 6239-6246.	14.5	102
52	Myf-5 Revisited. Cell, 2000, 102, 17-19.	28.9	100
53	FoxO3 induces reversible cardiac atrophy and autophagy in a transgenic mouse model. Cardiovascular Research, 2011, 91, 587-597.	3.8	100
54	A Redox-Regulated SUMO/Acetylation Switch of HIPK2 Controls the Survival Threshold to Oxidative Stress. Molecular Cell, 2012, 46, 472-483.	9.7	100

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55	Sustained Persistence of Transplanted Proangiogenic Cells Contributes to Neovascularization and Cardiac Function After Ischemia. Circulation Research, 2008, 103, 1327-1334.	4.5	99
56	Prmt5 is a regulator of muscle stem cell expansion in adult mice. Nature Communications, 2015, 6, 7140.	12.8	98
57	A New Level of Complexity. Circulation Research, 2012, 110, 1000-1013.	4.5	95
58	Metabolic Maturation during Muscle Stem Cell Differentiation Is Achieved by miR-1/133a-Mediated Inhibition of the Dlk1-Dio3 Mega Gene Cluster. Cell Metabolism, 2018, 27, 1026-1039.e6.	16.2	95
59	Different autonomous myogenic cell populations revealed by ablation of Myf5-expressing cells during mouse embryogenesis. Development (Cambridge), 2008, 135, 1597-1604.	2.5	93
60	Clonal Expansion of Endothelial Cells Contributes to Ischemia-Induced Neovascularization. Circulation Research, 2018, 122, 670-677.	4.5	91
61	Sirt7 Contributes to Myocardial Tissue Repair by Maintaining Transforming Growth Factor-Î² Signaling Pathway. Circulation, 2015, 132, 1081-1093.	1.6	88
62	Sirt7 promotes adipogenesis in the mouse by inhibiting autocatalytic activation of Sirt1. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8352-E8361.	7.1	88
63	Regulation and Function of SF/HGF during Migration of Limb Muscle Precursor Cells in Chicken. Developmental Biology, 1996, 180, 566-578.	2.0	87
64	The Ubiquitin-Like SUMO System and Heart Function. Circulation Research, 2016, 118, 132-144.	4.5	86
65	Multimodal Regulation of Cardiac Myocyte Proliferation. Circulation Research, 2017, 121, 293-309.	4.5	86
66	Myostatin Regulates Energy Homeostasis in the Heart and Prevents Heart Failure. Circulation Research, 2014, 115, 296-310.	4.5	85
67	A microRNAâ€•129â€•5p/Rbfox crosstalk coordinates homeostatic downscaling of excitatory synapses. EMBO Journal, 2017, 36, 1770-1787.	7.8	85
68	Divergent Siblings. Circulation Research, 2005, 96, 509-517.	4.5	82
69	Comparative expression analysis of Pax3 and Pax7 during mouse myogenesis. International Journal of Developmental Biology, 2006, 50, 47-54.	0.6	82
70	On Marathons and Sprints: An Integrated Quantitative Proteomics and Transcriptomics Analysis of Differences Between Slow and Fast Muscle Fibers. Molecular and Cellular Proteomics, 2012, 11, M111.010801.	3.8	80
71	Activation of Myogenic Differentiation Pathways in Adult Bone Marrow-Derived Stem Cells. Molecular and Cellular Biology, 2005, 25, 9509-9519.	2.3	79
72	The LIM Protein Ajuba Restricts the Second Heart Field Progenitor Pool by Regulating Isl1 Activity. Developmental Cell, 2012, 23, 58-70.	7.0	79

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73	Jmjd3 Controls Mesodermal and Cardiovascular Differentiation of Embryonic Stem Cells. Circulation Research, 2013, 113, 856-862.	4.5	78
74	Epigenetic Modifications of Stem Cells. Circulation Research, 2011, 109, 1067-1081.	4.5	76
75	The miR-206/133b cluster is dispensable for development, survival and regeneration of skeletal muscle. Skeletal Muscle, 2014, 4, 23.	4.2	74
76	The Isl1/Ldb1 Complex Orchestrates Genome-wide Chromatin Organization to Instruct Differentiation of Multipotent Cardiac Progenitors. Cell Stem Cell, 2015, 17, 287-299.	11.1	74
77	Cardiomyocyte Sirt (Sirtuin) 7 Ameliorates Stress-Induced Cardiac Hypertrophy by Interacting With and Deacetylating GATA4. Hypertension, 2020, 75, 98-108.	2.7	74
78	Pioneering function of Isl1 in the epigenetic control of cardiomyocyte cell fate. Cell Research, 2019, 29, 486-501.	12.0	72
79	A Novel NK-Related Mouse Homeobox Gene: Expression in Central and Peripheral Nervous Structures during Embryonic Development. Developmental Biology, 1994, 162, 288-303.	2.0	71
80	FGFs control the patterning of the inner ear but are not able to induce the full ear program. Mechanisms of Development, 2001, 109, 303-313.	1.7	70
81	High mobility group protein-mediated transcription requires DNA damage marker Î³-H2AX. Cell Research, 2015, 25, 837-850.	12.0	70
82	Reduced Mobility of Fibroblast Growth Factor (FGF)-Deficient Myoblasts Might Contribute to Dystrophic Changes in the Musculature of FGF2/FGF6/mdx Triple-Mutant Mice. Molecular and Cellular Biology, 2003, 23, 6037-6048.	2.3	68
83	Erythropoietin Preserves the Endothelial Differentiation Capacity of Cardiac Progenitor Cells and Reduces Heart Failure during Anticancer Therapies. Cell Stem Cell, 2011, 9, 131-143.	11.1	68
84	Characterization of the platelet-derived growth factor receptor-Î±-positive cell lineage during murine late lung development. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L942-L958.	2.9	68
85	The Chromatin Remodeling Complex Chd4/NuRD Controls Striated Muscle Identity and Metabolic Homeostasis. Cell Metabolism, 2016, 23, 881-892.	16.2	68
86	Remodeling and dedifferentiation of adult cardiomyocytes during disease and regeneration. Cellular and Molecular Life Sciences, 2014, 71, 1907-1916.	5.4	66
87	Mesenchymal stem cells are recruited to striated muscle by NFAT/IL-4-mediated cell fusion. Genes and Development, 2005, 19, 1787-1798.	5.9	65
88	Runx1 Deficiency Protects Against Adverse Cardiac Remodeling After Myocardial Infarction. Circulation, 2018, 137, 57-70.	1.6	65
89	Inhibition of Notch2 by Numb/Numblike controls myocardial compaction in the heart. Cardiovascular Research, 2012, 96, 276-285.	3.8	63
90	NSCL-1 and NSCL-2 synergistically determine the fate of GnRH-1 neurons and control necdin gene expression. EMBO Journal, 2004, 23, 4353-4364.	7.8	62

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91	The four human muscle regulatory helix-loop-helix proteins Myf3-Myf6 exhibit similar hetero-dimerizartion and DNA binding properties. Nucleic Acids Research, 1991, 19, 5645-5651.	14.5	61
92	Human R1441C LRRK2 regulates the synaptic vesicle proteome and phosphoproteome in a<i>Drosophila</i>model of Parkinsonâ€™s disease. Human Molecular Genetics, 2016, 25, ddw352.	2.9	61
93	Human cardiomyocytes undergo enhanced maturation in embryonic stem cell-derived organoid transplants. Biomaterials, 2019, 192, 537-550.	11.4	61
94	The Homeobox Gene Lbx1 Specifies a Subpopulation of Cardiac Neural Crest Necessary for Normal Heart Development. Circulation Research, 2003, 92, 73-80.	4.5	60
95	Lactaturia and Loss of Sodium-dependent Lactate Uptake in the Colon of SLC5A8-deficient Mice. Journal of Biological Chemistry, 2008, 283, 24729-24737.	3.4	60
96	SLC4A11 Prevents Osmotic Imbalance Leading to Corneal Endothelial Dystrophy, Deafness, and Polyuria. Journal of Biological Chemistry, 2010, 285, 14467-14474.	3.4	60
97	VITO-1 is an essential cofactor of TEF1-dependent muscle-specific gene regulation. Nucleic Acids Research, 2004, 32, 791-802.	14.5	59
98	E2F2 expression induces proliferation of terminally differentiated cardiomyocytes in vivo. Cardiovascular Research, 2008, 80, 219-226.	3.8	59
99	G ₁₃ -Mediated Signaling Pathway Is Required for Pressure Overloadâ€"Induced Cardiac Remodeling and Heart Failure. Circulation, 2012, 126, 1972-1982.	1.6	59
100	HIPK2 kinase activity depends on cis-autophosphorylation of its activation loop. Journal of Molecular Cell Biology, 2013, 5, 27-38.	3.3	59
101	Dynamic changes in the skeletal muscle proteome during denervation-induced atrophy. DMM Disease Models and Mechanisms, 2017, 10, 881-896.	2.4	59
102	Mono- and multi-nucleated ventricular cardiomyocytes constitute a transcriptionally homogenous cell population. Basic Research in Cardiology, 2019, 114, 36.	5.9	59
103	Neurofibromin (Nf1) is required for skeletal muscle development. Human Molecular Genetics, 2011, 20, 2697-2709.	2.9	58
104	The sirtuin SIRT6 regulates stress granules formation in C. elegans and in mammals. Journal of Cell Science, 2013, 126, 5166-77.	2.0	58
105	The failing heart is a major source of circulating FGF23 via oncostatin M receptor activation. Journal of Heart and Lung Transplantation, 2015, 34, 1211-1214.	0.6	58
106	Antigen presentation by lung epithelial cells directs CD4+ TRM cell function and regulates barrier immunity. Nature Communications, 2021, 12, 5834.	12.8	58
107	Heterozygous myogenic factor 6 mutation associated with myopathy and severe course of Becker muscular dystrophy. Neuromuscular Disorders, 2000, 10, 572-577.	0.6	57
108	Age-dependent increase of oxidative stress regulates microRNA-29 family preserving cardiac health. Scientific Reports, 2017, 7, 16839.	3.3	57

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109	Identification of right heart-enriched genes in a murine model of chronic outflow tract obstruction. Journal of Molecular and Cellular Cardiology, 2010, 49, 598-605.	1.9	56
110	Oxidative stress during mitochondrial biogenesis compromises mtDNA integrity in growing hearts and induces a global DNA repair response. Nucleic Acids Research, 2012, 40, 6595-6607.	14.5	56
111	ClpX stimulates the mitochondrial unfolded protein response (UPRmt) in mammalian cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2580-2591.	4.1	56
112	Control of endothelial quiescence by FOXO-regulated metabolites. Nature Cell Biology, 2021, 23, 413-423.	10.3	56
113	Cardiovascular regeneration in non-mammalian model systems: What are the differences between newts and man?. Thrombosis and Haemostasis, 2007, 98, 311-318.	3.4	55
114	Hmga2is required for canonical WNT signaling during lung development. BMC Biology, 2014, 12, 21.	3.8	55
115	Basal and exercise induced label-free quantitative protein profiling of m. vastus lateralis in trained and untrained individuals. Journal of Proteomics, 2015, 122, 119-132.	2.4	55
116	Loss of pyruvate kinase M2 limits growth and triggers innate immune signaling in endothelial cells. Nature Communications, 2018, 9, 4077.	12.8	55
117	TEAD transcription factors are required for normal primary myoblast differentiation in vitro and muscle regeneration in vivo. PLoS Genetics, 2017, 13, e1006600.	3.5	55
118	Different extent of cardiac malfunction and resistance to oxidative stress in heterozygous and homozygous manganese-dependent superoxide dismutase-mutant mice. Cardiovascular Research, 2009, 82, 448-457.	3.8	54
119	Noncoder: a web interface for exon array-based detection of long non-coding RNAs. Nucleic Acids Research, 2013, 41, e20-e20.	14.5	54
120	Elevated Glucose Levels Promote Contractile and Cytoskeletal Gene Expression in Vascular Smooth Muscle via Rho/Protein Kinase C and Actin Polymerization. Journal of Biological Chemistry, 2016, 291, 3552-3568.	3.4	54
121	The Janus face of OSM-mediated cardiomyocyte dedifferentiation during cardiac repair and disease. Cell Cycle, 2012, 11, 439-445.	2.6	53
122	Therapeutic targeting of the oncostatin M receptor-Î² prevents inflammatory heart failure. Basic Research in Cardiology, 2014, 109, 396.	5.9	53
123	Inactivation of nuclear histone deacetylases by EP300 disrupts the MiCEE complex in idiopathic pulmonary fibrosis. Nature Communications, 2019, 10, 2229.	12.8	53
124	VITO-1, a novel vestigial related protein is predominantly expressed in the skeletal muscle lineage. Mechanisms of Development, 2002, 119, S269-S274.	1.7	52
125	MiCEE is a ncRNA-protein complex that mediates epigenetic silencing and nucleolar organization. Nature Genetics, 2018, 50, 990-1001.	21.4	52
126	Inner ear and lateral line expression of a zebrafish Nkx5-1 gene and its downregulation in the ears of FGF8 mutant, ace. Mechanisms of Development, 2000, 97, 161-165.	1.7	50

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127	Transient Inhibition of FGFR2b-Ligands Signaling Leads to Irreversible Loss of Cellular Î²-Catenin Organization and Signaling in AER during Mouse Limb Development. PLoS ONE, 2013, 8, e76248.	2.5	49
128	Myostatin induces interstitial fibrosis in the heart via TAK1 and p38. Cell and Tissue Research, 2015, 361, 779-787.	2.9	49
129	Sirtuin 7 Deficiency Ameliorates Cisplatin-induced Acute Kidney Injury Through Regulation of the Inflammatory Response. Scientific Reports, 2018, 8, 5927.	3.3	48
130	Faithful Expression of the Myf-5 Gene during Mouse Myogenesis Requires Distant Control Regions: A Transgene Approach Using Yeast Artificial Chromosomes. Developmental Biology, 1997, 192, 172-180.	2.0	47
131	ES-cells Carrying Two Inactivated myf-5 Alleles Form Skeletal Muscle Cells: Activation of an Alternative myf-5-Independent Differentiation Pathway. Developmental Biology, 1994, 164, 24-36.	2.0	46
132	Broad AOX expression in a genetically tractable mouse model does not disturb normal physiology. DMM Disease Models and Mechanisms, 2017, 10, 163-171.	2.4	46
133	SIRT6-dependent cysteine monoubiquitination in the PRE-SET domain of Suv39h1 regulates the NF-Î°B pathway. Nature Communications, 2018, 9, 101.	12.8	46
134	Advanced Identification of Proteins in Uncharacterized Proteomes by Pulsed in Vivo Stable Isotope Labeling-based Mass Spectrometry. Molecular and Cellular Proteomics, 2010, 9, 1157-1166.	3.8	45
135	UROPA: a tool for Universal RObust Peak Annotation. Scientific Reports, 2017, 7, 2593.	3.3	45
136	Small RNA Sequencing Reveals Dlk1-Dio3 Locus-Embedded MicroRNAs as Major Drivers of Ground-State Pluripotency. Stem Cell Reports, 2017, 9, 2081-2096.	4.8	45
137	Lamin B1 loss promotes lung cancer development and metastasis by epigenetic derepression of RET. Journal of Experimental Medicine, 2019, 216, 1377-1395.	8.5	45
138	Targeted mutation of SLC4A5 induces arterial hypertension and renal metabolic acidosis. Human Molecular Genetics, 2012, 21, 1025-1036.	2.9	44
139	Reconstitution of the Myocardium in Regenerating Newt Hearts is Preceded by Transient Deposition of Extracellular Matrix Components. Stem Cells and Development, 2013, 22, 1921-1931.	2.1	44
140	Exosomal tetraspanins mediate cancer metastasis by altering host microenvironment. Oncotarget, 2017, 8, 62803-62815.	1.8	44
141	Multilineage murine stem cells generate complex organoids to model distal lung development and disease. EMBO Journal, 2020, 39, e103476.	7.8	44
142	RUNX1: an emerging therapeutic target for cardiovascular disease. Cardiovascular Research, 2020, 116, 1410-1423.	3.8	43
143	Skeletal Muscle-Specific Methyltransferase METTL21C Trimethylates p97 and Regulates Autophagy-Associated Protein Breakdown. Cell Reports, 2018, 23, 1342-1356.	6.4	41
144	Single Muscle Fiber Proteomics Reveals Distinct Protein Changes in Slow and Fast Fibers during Muscle Atrophy. Journal of Proteome Research, 2018, 17, 3333-3347.	3.7	41

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145	Microfluidic protein isolation and sample preparation for high-resolution cryo-EM. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15007-15012.	7.1	41
146	Evidence for a signal peptide at the amino-terminal end of human mitochondrial aldehyde dehydrogenase. FEBS Letters, 1987, 215, 233-236.	2.8	40
147	Inhibition of p53 after acute myocardial infarction: Reduction of apoptosis is counteracted by disturbed scar formation and cardiac rupture. Journal of Molecular and Cellular Cardiology, 2011, 50, 471-478.	1.9	40
148	Transcriptome Analysis of Newt Lens Regeneration Reveals Distinct Gradients in Gene Expression Patterns. PLoS ONE, 2013, 8, e61445.	2.5	40
149	The long and winding road of cardiomyocyte maturation. Cardiovascular Research, 2021, 117, 712-726.	3.8	40
150	Overexpression of Twinkle-helicase protects cardiomyocytes from genotoxic stress caused by reactive oxygen species. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19408-19413.	7.1	39
151	Bypassing mitochondrial complex III using alternative oxidase inhibits acute pulmonary oxygen sensing. Science Advances, 2020, 6, eaba0694.	10.3	39
152	Osteoblast-derived vesicles induce a switch from bone-formation to bone-resorption in vivo. Nature Communications, 2022, 13, 1066.	12.8	39
153	Maintenance of sarcomeric integrity in adult muscle cells crucially depends on Z-disc anchored titin. Nature Communications, 2020, 11, 4479.	12.8	38
154	Treatment With Bone Morphogenetic Protein 2 Limits Infarct Size After Myocardial Infarction in Mice. Shock, 2013, 39, 353-360.	2.1	37
155	Mesenchymal stem cells attenuate inflammatory processes in the heart and lung via inhibition of TNF signaling. Basic Research in Cardiology, 2016, 111, 54.	5.9	37
156	Alternative Oxidase Attenuates Cigarette Smokeâ€“induced Lung Dysfunction and Tissue Damage. American Journal of Respiratory Cell and Molecular Biology, 2019, 60, 515-522.	2.9	37
157	Disruption of spatiotemporal hypoxic signaling causes congenital heart disease in mice. Journal of Clinical Investigation, 2017, 127, 2235-2248.	8.2	36
158	Human embryonic stem cell-derived cardiovascular progenitor cells efficiently colonize in bFGF-tethered natural matrix to construct contracting humanized rat hearts. Biomaterials, 2018, 154, 99-112.	11.4	36
159	Postnatal cardiomyocyte growth and mitochondrial reorganization cause multiple changes in the proteome of human cardiomyocytes. Molecular BioSystems, 2013, 9, 1210.	2.9	35
160	Dynamics of zebrafish fin regeneration using a pulsed SILAC approach. Proteomics, 2015, 15, 739-751.	2.2	35
161	BMP9 and BMP10 Act Directly on Vascular Smooth Muscle Cells for Generation and Maintenance of the Contractile State. Circulation, 2021, 143, 1394-1410.	1.6	35
162	Cardiovascular regeneration in non-mammalian model systems: what are the differences between newts and man?. Thrombosis and Haemostasis, 2007, 98, 311-8.	3.4	35

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163	BMP signaling regulates satellite cell dependent postnatal muscle growth. Development (Cambridge), 2017, 144, 2737-2747.	2.5	34
164	Functional redundancy of NSCL-1 and NeuroD during development of the petrosal and vestibulocochlear ganglia. European Journal of Neuroscience, 2006, 24, 1581-1590.	2.6	33
165	Attenuation of Wnt/Î²-catenin activity reverses enhanced generation of cardiomyocytes and cardiac defects caused by the loss of emerin. Human Molecular Genetics, 2015, 24, 802-813.	2.9	33
166	Stable Oxidative Cytosine Modifications Accumulate in Cardiac Mesenchymal Cells From Type2 Diabetes Patients. Circulation Research, 2018, 122, 31-46.	4.5	33
167	SirT7 auto-ADP-ribosylation regulates glucose starvation response through mH2A1. Science Advances, 2020, 6, eaaz2590.	10.3	33
168	The Neuronal Basic Helix-Loop-Helix Transcription Factor NSCL-1 Is Dispensable for Normal Neuronal Development. Molecular and Cellular Biology, 2002, 22, 792-800.	2.3	32
169	Spiked-in Pulsed in Vivo Labeling Identifies a New Member of the CCN Family in Regenerating Newt Hearts. Journal of Proteome Research, 2012, 11, 4693-4704.	3.7	32
170	The homeobox containing gene Lbx1 is required for correct dorsal-ventral patterning of the neural tube. Journal of Neurochemistry, 2002, 82, 774-782.	3.9	31
171	NSCL-1 and -2 control the formation of precerebellar nuclei by orchestrating the migration of neuronal precursor cells. Journal of Neurochemistry, 2007, 102, 2061-2072.	3.9	31
172	Sexâ€specific, reciprocal regulation of <scp>ER</scp>Î± and miRâ€22 controls muscle lipid metabolism in male mice. EMBO Journal, 2017, 36, 1199-1214.	7.8	31
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