

A molecular atlas of cell types and zonation in the brain

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Neural Crest-Derived Human Cranial Pericytes Model Primary Forebrain Pericytes and Predict Disease-Specific Cranial Vasculature Defects.. SSRN Electronic Journal, 0, , .	0.4	6
2	Endothelial Insulin Receptor Restoration Rescues Vascular Function in Male Insulin Receptor Haploinsufficient Mice. <i>Endocrinology</i> , 2018, 159, 2917-2925.	1.4	11
3	“Liquid Biopsy” of White Matter Hyperintensity in Functionally Normal Elders. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 343.	1.7	18
4	A web server for comparative analysis of single-cell RNA-seq data. <i>Nature Communications</i> , 2018, 9, 4768.	5.8	48
5	It Takes Two: Endothelial-Perivascular Cell Cross-Talk in Vascular Development and Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 154.	1.1	125
6	Collagen COL22A1 maintains vascular stability and mutations in <i>COL22A1</i> are potentially associated with intracranial aneurysms. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	1.2	19
7	Benchmarking in vitro tissue-engineered blood-brain barrier models. <i>Fluids and Barriers of the CNS</i> , 2018, 15, 32.	2.4	105
8	Prolonged systemic hyperglycemia does not cause pericyte loss and permeability at the mouse blood-brain barrier. <i>Scientific Reports</i> , 2018, 8, 17462.	1.6	19
9	Understanding dynamic tissue organization by studying the human body one cell at a time: the human cell atlas (HCA) project. <i>Cardiovascular Research</i> , 2018, 114, e93-e95.	1.8	4
10	PDGFR ² Cells Rapidly Relay Inflammatory Signal from the Circulatory System to Neurons via Chemokine CCL2. <i>Neuron</i> , 2018, 100, 183-200.e8.	3.8	134
11	Targeting senescence to delay progression of multiple sclerosis. <i>Journal of Molecular Medicine</i> , 2018, 96, 1153-1166.	1.7	30
12	Transcriptional and epigenomic landscapes of CNS and non-CNS vascular endothelial cells. <i>ELife</i> , 2018, 7, .	2.8	180
13	Isolation and Characterization of Mouse Organ-Specific Endothelial Transcriptomes. <i>Methods in Molecular Biology</i> , 2018, 1846, 301-308.	0.4	1
14	Single-Cell mRNA Sequencing of the Mouse Brain Vasculature. <i>Methods in Molecular Biology</i> , 2018, 1846, 309-324.	0.4	16
16	The role of brain vasculature in neurodegenerative disorders. <i>Nature Neuroscience</i> , 2018, 21, 1318-1331.	7.1	612
17	Hypertension, dietary salt and cognitive impairment. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 2112-2128.	2.4	64
18	The Fountain of Youth: It’s All in Our Veins. <i>Neuron</i> , 2018, 100, 9-11.	3.8	1
19	Microvascular Mural Cells in Cancer. <i>Trends in Cancer</i> , 2018, 4, 838-848.	3.8	16

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20	Single Cell Gene Expression to Understand the Dynamic Architecture of the Heart. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 167.	1.1	16
21	Role of NOTCH3 Mutations in the Cerebral Small Vessel Disease Cerebral Autosomal Dominant Arteriopathy With Subcortical Infarcts and Leukoencephalopathy. <i>Stroke</i> , 2018, 49, 2793-2800.	1.0	42
22	Epigenetic Modifications in Cardiovascular Aging and Diseases. <i>Circulation Research</i> , 2018, 123, 773-786.	2.0	180
23	Paired-cell sequencing enables spatial gene expression mapping of liver endothelial cells. <i>Nature Biotechnology</i> , 2018, 36, 962-970.	9.4	262
24	Modifying a Commonly Expressed Endocytic Receptor Retargets Nanoparticles in Vivo. <i>Nano Letters</i> , 2018, 18, 7590-7600.	4.5	37
25	NCK-dependent pericyte migration promotes pathological neovascularization in ischemic retinopathy. <i>Nature Communications</i> , 2018, 9, 3463.	5.8	60
26	Mice Knocked Out for the Primary Brain Calcification-Associated Gene <i>Slc20a2</i> Show Unimpaired Prenatal Survival but Retarded Growth and Nodules in the Brain that Grow and Calcify Over Time. <i>American Journal of Pathology</i> , 2018, 188, 1865-1881.	1.9	24
27	IDH mutation status is associated with distinct vascular gene expression signatures in lower-grade gliomas. <i>Neuro-Oncology</i> , 2018, 20, 1505-1516.	0.6	52
28	Creating Lineage Trajectory Maps Via Integration of Single-Cell RNA Sequencing and Lineage Tracing. <i>BioEssays</i> , 2018, 40, e1800056.	1.2	21
29	Vascular Compartmentalization of Functional Hyperemia from the Synapse to the Pia. <i>Neuron</i> , 2018, 99, 362-375.e4.	3.8	186
30	The pial vasculature of the mouse develops according to a sensory-independent program. <i>Scientific Reports</i> , 2018, 8, 9860.	1.6	26
31	TÎ²4 Increases Neovascularization and Cardiac Function in Chronic Myocardial Ischemia of Normo- and Hypercholesterolemic Pigs. <i>Molecular Therapy</i> , 2018, 26, 1706-1714.	3.7	11
32	Resident Endothelial Progenitors Make Themselves at Home. <i>Cell Stem Cell</i> , 2018, 23, 153-155.	5.2	11
33	Pericyte-like spreading by disseminated cancer cells activates YAP and MRTF for metastatic colonization. <i>Nature Cell Biology</i> , 2018, 20, 966-978.	4.6	186
34	The lysolipid transporter <i>Mfsd2a</i> regulates lipogenesis in the developing brain. <i>PLoS Biology</i> , 2018, 16, e2006443.	2.6	75
35	Tissue Specific Origin, Development, and Pathological Perspectives of Pericytes. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 78.	1.1	122
36	Cerebral Metabolic Changes During Sleep. <i>Current Neurology and Neuroscience Reports</i> , 2018, 18, 57.	2.0	68
37	Characterization of multi-cellular dynamics of angiogenesis and vascular remodelling by intravital imaging of the wounded mouse cornea. <i>Scientific Reports</i> , 2018, 8, 10672.	1.6	6

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38	Comparative Characterization of Ischemia-Induced Brain Multipotent Stem Cells with Mesenchymal Stem Cells: Similarities and Differences. <i>Stem Cells and Development</i> , 2018, 27, 1322-1338.	1.1	21
39	Isolation and differential transcriptome of vascular smooth muscle cells and mid-capillary pericytes from the rat brain. <i>Scientific Reports</i> , 2018, 8, 12272.	1.6	55
40	Targeting pericytes for therapeutic approaches to neurological disorders. <i>Acta Neuropathologica</i> , 2018, 136, 507-523.	3.9	165
41	Endothelial Dab1 signaling orchestrates neuro-glia-vessel communication in the central nervous system. <i>Science</i> , 2018, 361, .	6.0	108
42	Advances in Understanding the Pathophysiology of Lacunar Stroke. <i>JAMA Neurology</i> , 2018, 75, 1273.	4.5	151
43	Insulin transport into the brain. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C125-C136.	2.1	45
44	Pericyte Structural Remodeling in Cerebrovascular Health and Homeostasis. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 210.	1.7	77
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49	Laminins and their receptors in the CNS. <i>Biological Reviews</i> , 2019, 94, 283-306.	4.7	54
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52	Oligodendrocytes in intracerebral hemorrhage. <i>CNS Neuroscience and Therapeutics</i> , 2019, 25, 1075-1084.	1.9	31
53	LTMC: a novel statistical modeling of transcriptional expression states in single-cell RNA-Seq data. <i>Nucleic Acids Research</i> , 2019, 47, e111-e111.	6.5	46
54	<i>Nrx2-5</i> defines a subpopulation of pacemaker cells and is essential for the physiological function of the sinoatrial node in mice. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	23
55	Genome-wide association study of cerebral small vessel disease reveals established and novel loci. <i>Brain</i> , 2019, 142, 3176-3189.	3.7	76

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57	Exercise-mediated angiogenesis. <i>Current Opinion in Physiology</i> , 2019, 10, 193-201.	0.9	19
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63	Risk factors for hemorrhage of brain arteriovenous malformation. <i>CNS Neuroscience and Therapeutics</i> , 2019, 25, 1085-1095.	1.9	39
64	Role of Hedgehog Signaling in Vasculature Development, Differentiation, and Maintenance. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3076.	1.8	50
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66	Vascular Cognitive Impairment and Dementia. <i>Journal of the American College of Cardiology</i> , 2019, 73, 3326-3344.	1.2	384
67	GPIHBP1 and Lipoprotein Lipase, Partners in Plasma Triglyceride Metabolism. <i>Cell Metabolism</i> , 2019, 30, 51-65.	7.2	86
68	Single-cell RNA-seq highlights intra-tumoral heterogeneity and malignant progression in pancreatic ductal adenocarcinoma. <i>Cell Research</i> , 2019, 29, 725-738.	5.7	661
69	Comparison of Human Tissue Microarray to Human Pericyte Transcriptome Yields Novel Perivascular Cell Markers. <i>Stem Cells and Development</i> , 2019, 28, 1214-1223.	1.1	8
70	Profiling the unique protective properties of intracranial arterial endothelial cells. <i>Acta Neuropathologica Communications</i> , 2019, 7, 151.	2.4	8
71	Proteomic atlas of organ vasculopathies triggered by <i>Staphylococcus aureus</i> sepsis. <i>Nature Communications</i> , 2019, 10, 4656.	5.8	46
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75	Patient-Specific iPSC Model of a Genetic Vascular Dementia Syndrome Reveals Failure of Mural Cells to Stabilize Capillary Structures. <i>Stem Cell Reports</i> , 2019, 13, 817-831.	2.3	38
76	Cerebral Small Vessel Disease (CSVD) – Lessons From the Animal Models. <i>Frontiers in Physiology</i> , 2019, 10, 1317.	1.3	40
77	The in vivo endothelial cell transcriptome is highly heterogeneous across vascular beds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23618-23624.	3.3	89
78	Myc-dependent endothelial proliferation is controlled by phosphotyrosine 1212 in VEGF Receptor-2. <i>EMBO Reports</i> , 2019, 20, e47845.	2.0	27
79	CNS myeloid cell heterogeneity at the single-cell level. <i>Neuroforum</i> , 2019, 25, 195-204.	0.2	0
80	Potential for Tight Junction Protein-Directed Drug Development Using Claudin Binders and Angubindin-1. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4016.	1.8	28
81	scBFA: modeling detection patterns to mitigate technical noise in large-scale single-cell genomics data. <i>Genome Biology</i> , 2019, 20, 193.	3.8	18
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83	Claudin-12 is not required for blood-brain barrier tight junction function. <i>Fluids and Barriers of the CNS</i> , 2019, 16, 30.	2.4	45
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85	Deciphering Brain Complexity Using Single-cell Sequencing. <i>Genomics, Proteomics and Bioinformatics</i> , 2019, 17, 344-366.	3.0	52
86	Neurovascular Interactions in the Nervous System. <i>Annual Review of Cell and Developmental Biology</i> , 2019, 35, 615-635.	4.0	67
87	Endothelium-Derived Semaphorin 3G Regulates Hippocampal Synaptic Structure and Plasticity via Neuropilin-2/PlexinA4. <i>Neuron</i> , 2019, 101, 920-937.e13.	3.8	76
88	Claudin-3-deficient C57BL/6J mice display intact brain barriers. <i>Scientific Reports</i> , 2019, 9, 203.	1.6	68
89	Pericyte loss leads to circulatory failure and pleiotrophin depletion causing neuron loss. <i>Nature Neuroscience</i> , 2019, 22, 1089-1098.	7.1	246
90	A traffic jam leads to Lewy bodies. <i>Nature Neuroscience</i> , 2019, 22, 1043-1045.	7.1	11
91	Sharpening the tools for pericyte research. <i>Nature Neuroscience</i> , 2019, 22, 1041-1043.	7.1	7

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92	Cellular Control of Brain Capillary Blood Flow: In Vivo Imaging Veritas. Trends in Neurosciences, 2019, 42, 528-536.	4.2	48
93	Role of iPSC-derived pericytes on barrier function of iPSC-derived brain microvascular endothelial cells in 2D and 3D. Fluids and Barriers of the CNS, 2019, 16, 15.	2.4	82
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101	Axon Guidance-Related Factor FLRT3 Regulates VEGF-Signaling and Endothelial Cell Function. Frontiers in Physiology, 2019, 10, 224.	1.3	16
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112	Pericyte transplantation improves skeletal muscle recovery following hindlimb immobilization. <i>FASEB Journal</i> , 2019, 33, 7694-7706.	0.2	23
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114	Human pluripotent stem cell-derived brain pericyte-like cells induce blood-brain barrier properties. <i>Science Advances</i> , 2019, 5, eaau7375.	4.7	135
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116	Xeno-free culture for generation of forebrain oligodendrocyte precursor cells from human pluripotent stem cells. <i>Journal of Neuroscience Research</i> , 2019, 97, 828-845.	1.3	7
117	Alzheimer's disease phospholipase C-gamma-2 (PLCG2) protective variant is a functional hypermorph. <i>Alzheimer's Research and Therapy</i> , 2019, 11, 16.	3.0	100
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119	Defective vascular signaling & prospective therapeutic targets in brain arteriovenous malformations. <i>Neurochemistry International</i> , 2019, 126, 126-138.	1.9	22
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123	Cholinergic Deficit Induced by Central Administration of 192IgG-Saporin Is Associated With Activation of Microglia and Cell Loss in the Dorsal Hippocampus of Rats. <i>Frontiers in Neuroscience</i> , 2019, 13, 146.	1.4	21
124	Quantifying Ca ²⁺ signaling and contraction in vascular pericytes and smooth muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2019, 513, 112-118.	1.0	9
125	Straightforward method for singularized and region-specific CNS microvessels isolation. <i>Journal of Neuroscience Methods</i> , 2019, 318, 17-33.	1.3	3
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127	Beta-amyloid pathology in human brain microvessel extracts from the parietal cortex: relation with cerebral amyloid angiopathy and Alzheimer's disease. <i>Acta Neuropathologica</i> , 2019, 137, 801-823.	3.9	61
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130	Isolation and Characterization of Cerebellum-Derived Stem Cells in Poststroke Human Brain. <i>Stem Cells and Development</i> , 2019, 28, 528-542.	1.1	16
131	Ossified blood vessels in primary familial brain calcification elicit a neurotoxic astrocyte response. <i>Brain</i> , 2019, 142, 885-902.	3.7	50
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134	Emerging links between cerebrovascular and neurodegenerative diseases—a special role for pericytes. <i>EMBO Reports</i> , 2019, 20, e48070.	2.0	89
135	Transcriptional profiling predicts running promotes cerebrovascular remodeling in young but not midlife mice. <i>BMC Genomics</i> , 2019, 20, 860.	1.2	8
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137	Disrupted Blood-Retina Lysophosphatidylcholine Transport Impairs Photoreceptor Health But Not Visual Signal Transduction. <i>Journal of Neuroscience</i> , 2019, 39, 9689-9701.	1.7	38
138	Molecular determinants of nephron vascular specialization in the kidney. <i>Nature Communications</i> , 2019, 10, 5705.	5.8	83
139	Emerging molecular mechanisms of vascular dementia. <i>Current Opinion in Hematology</i> , 2019, 26, 199-206.	1.2	32
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141	Pericytes: Problems and Promises for CNS Repair. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 546.	1.8	34
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143	Oncogenic Regulation of Extracellular Vesicle Proteome and Heterogeneity. <i>Proteomics</i> , 2019, 19, e1800169.	1.3	27
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145	Single-Cell Analysis of Regional Differences in Adult V-SVZ Neural Stem Cell Lineages. <i>Cell Reports</i> , 2019, 26, 394-406.e5.	2.9	175
146	Blood-brain barrier breakdown is an early biomarker of human cognitive dysfunction. <i>Nature Medicine</i> , 2019, 25, 270-276.	15.2	987

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147	Peri-arterial specification of vascular mural cells from naïve mesenchyme requires Notch signaling. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	42
148	Blood-Brain Barrier: From Physiology to Disease and Back. <i>Physiological Reviews</i> , 2019, 99, 21-78.	13.1	1,232
149	EndoDB: a database of endothelial cell transcriptomics data. <i>Nucleic Acids Research</i> , 2019, 47, D736-D744.	6.5	70
150	Pericyte Plasticity in the Brain. <i>Neuroscience Bulletin</i> , 2019, 35, 551-560.	1.5	31
151	Contributions of Aging to Cerebral Small Vessel Disease. <i>Annual Review of Physiology</i> , 2020, 82, 275-295.	5.6	55
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154	Glutamate controls vessel-associated migration of GABA interneurons from the pial migratory route via NMDA receptors and endothelial protease activation. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 1959-1986.	2.4	21
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156	Brain endothelial specific gene therapy improves experimental Sandhoff disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1338-1350.	2.4	17
157	Fibrotic scar after experimental autoimmune encephalomyelitis inhibits oligodendrocyte differentiation. <i>Neurobiology of Disease</i> , 2020, 134, 104674.	2.1	28
158	Systemic factors as mediators of brain homeostasis, ageing and neurodegeneration. <i>Nature Reviews Neuroscience</i> , 2020, 21, 93-102.	4.9	120
159	Radial Glial Cell-Derived VCAM1 Regulates Cortical Angiogenesis Through Distinct Enrichments in the Proximal and Distal Radial Processes. <i>Cerebral Cortex</i> , 2020, 30, 3717-3730.	1.6	3
160	Every-other-day feeding exacerbates inflammation and neuronal deficits in 5XFAD mouse model of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2020, 136, 104745.	2.1	21
161	Aryl Hydrocarbon Receptor in Cutaneous Vascular Endothelial Cells Restricts Psoriasis Development by Negatively Regulating Neutrophil Recruitment. <i>Journal of Investigative Dermatology</i> , 2020, 140, 1233-1243.e9.	0.3	26
162	Biallelic loss-of-function mutations in JAM2 cause primary familial brain calcification. <i>Brain</i> , 2020, 143, 491-502.	3.7	57
163	The blood-brain barrier and blood-tumour barrier in brain tumours and metastases. <i>Nature Reviews Cancer</i> , 2020, 20, 26-41.	12.8	908
164	Transplantation of hPSC-derived pericyte-like cells promotes functional recovery in ischemic stroke mice. <i>Nature Communications</i> , 2020, 11, 5196.	5.8	63

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166	Ageing, calcium channel signaling and vascular tone. <i>Mechanisms of Ageing and Development</i> , 2020, 191, 111336.	2.2	16
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