Vivi M Heine

List of Publications by Year
in descending order

59 papers	5,093 citations	257450 24 h-index	155660 55 g-index
65 all docs	65 docs citations	65 times ranked	9295 citing authors

#	Article	IF	Citations
1	InÂvivo targeting of a variant causing vanishing white matter using CRISPR/Cas9. Molecular Therapy - Methods and Clinical Development, 2022, 25, 17-25.	4.1	2
2	Evolution of adrenoleukodystrophy model systems. Journal of Inherited Metabolic Disease, 2021, 44, 544-553.	3.6	5
3	Systematic assessment of variability in the proteome of iPSC derivatives. Stem Cell Research, 2021, 56, 102512.	0.7	8
4	Neuronâ€"Glia Interactions in Tuberous Sclerosis Complex Affect the Synaptic Balance in 2D and Organoid Cultures. Cells, 2021, 10, 134.	4.1	13
5	A human iPSC-astroglia neurodevelopmental model reveals divergent transcriptomic patterns in schizophrenia. Translational Psychiatry, 2021, 11, 554.	4.8	19
6	Glutamate Carrier Involvement in Mitochondrial Dysfunctioning in the Brain White Matter. Frontiers in Molecular Biosciences, 2020, 7, 151.	3.5	7
7	Pharmacological intervention to restore connectivity deficits of neuronal networks derived from ASD patient iPSC with a TSC2 mutation. Molecular Autism, 2020, 11, 80.	4.9	25
8	Decanoic acid inhibits mTORC1 activity independent of glucose and insulin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23617-23625.	7.1	36
9	Quantitative proteomic analysis of Rett iPSC-derived neuronal progenitors. Molecular Autism, 2020, 11, 38.	4.9	14
10	Cerebral Organoids: A Human Model for AAV Capsid Selection and Therapeutic Transgene Efficacy in the Brain. Molecular Therapy - Methods and Clinical Development, 2020, 18, 167-175.	4.1	22
11	Copy number variants (CNVs): a powerful tool for iPSC-based modelling of ASD. Molecular Autism, 2020, 11, 42.	4.9	14
12	Astrocyte Subtype Vulnerability in Stem Cell Models of Vanishing White Matter. Annals of Neurology, 2019, 86, 780-792.	5.3	20
13	The involvement of astrocytes in earlyâ€life adversity induced programming of the brain. Glia, 2019, 67, 1637-1653.	4.9	66
14	Cell Replacement Therapy Improves Pathological Hallmarks in a Mouse Model of Leukodystrophy Vanishing White Matter. Stem Cell Reports, 2019, 12, 441-450.	4.8	15
15	KCC2 expression levels are reduced in post mortem brain tissue of Rett syndrome patients. Acta Neuropathologica Communications, 2019, 7, 196.	5.2	33
16	Neuron-Glia Interactions Increase Neuronal Phenotypes in Tuberous Sclerosis Complex Patient iPSC-Derived Models. Stem Cell Reports, 2019, 12, 42-56.	4.8	62
17	Generation of Isogenic Controls for In Vitro Disease Modelling of X-Chromosomal Disorders. Stem Cell Reviews and Reports, 2019, 15, 276-285.	5.6	16
18	Co-culture of Human Stem Cell Derived Neurons and Oligodendrocyte Progenitor Cells. Bio-protocol, 2019, 9, e3350.	0.4	5

#	Article	IF	Citations
19	Adult mouse eIF2BÎµ Arg191His astrocytes display a normal integrated stress response in vitro. Scientific Reports, 2018, 8, 3773.	3.3	9
20	<scp>A</scp>ffected astrocytes in the spinal cord of the leukodystrophy vanishing white matter. Glia, 2018, 66, 862-873.	4.9	19
21	Axonal abnormalities in vanishing white matter. Annals of Clinical and Translational Neurology, 2018, 5, 429-444.	3.7	19
22	Bergmann glia translocation: a new disease marker for vanishing white matter identifies therapeutic effects of Guanabenz treatment. Neuropathology and Applied Neurobiology, 2018, 44, 391-403.	3.2	39
23	The Healthy and Diseased Microenvironments Regulate Oligodendrocyte Properties. American Journal of Pathology, 2018, 188, 39-52.	3.8	9
24	Patterning factors during neural progenitor induction determine regional identity and differentiation potential in vitro. Stem Cell Research, 2018, 32, 25-34.	0.7	28
25	<i>Olig1</i> is required for nogginâ€induced neonatal myelin repair. Annals of Neurology, 2017, 81, 560-571.	5.3	13
26	Simplified 3D protocol capable of generating early cortical neuroepithelium. Biology Open, 2017, 6, 402-406.	1.2	5
27	Differential Maturation of the Two Regulated Secretory Pathways in Human iPSC-Derived Neurons. Stem Cell Reports, 2017, 8, 659-672.	4.8	9
28	Stem Cell Derived Retinal Pigment Epithelium: The Role of Pigmentation as Maturation Marker and Gene Expression Profile Comparison with Human Endogenous Retinal Pigment Epithelium.. Stem Cell Reviews and Reports, 2017, 13, 659-669.	5.6	26
29	Streamlined 3D Cerebellar Differentiation Protocol with Optional 2D Modification. Journal of Visualized Experiments, 2017, , .	0.3	8
30	Genetically-Informed Patient Selection for iPSC Studies of Complex Diseases May Aid in Reducing Cellular Heterogeneity. Frontiers in Cellular Neuroscience, 2017, 11, 164.	3.7	37
31	Cerebellar Developmentâ€"The Impact of Preterm Birth and Comorbidities. , 2017, , 1350-1362.e3.		1
32	Multi-level characterization of balanced inhibitory-excitatory cortical neuron network derived from human pluripotent stem cells. PLoS ONE, 2017, 12, e0178533.	2.5	28
33	Comparative gene expression study and pathway analysis of the human iris- and the retinal pigment epithelium. PLoS ONE, 2017, 12, e0182983.	2.5	9
34	Stem cell therapy for white matter disorders: don't forget the microenvironment!. Journal of Inherited Metabolic Disease, 2016, 39, 513-518.	3.6	9
35	Leukodystrophies. Neurology: Clinical Practice, 2016, 6, 506-514.	1.6	18
36	Modeling psychiatric disorders: from genomic findings to cellular phenotypes. Molecular Psychiatry, 2016, 21, 1167-1179.	7.9	92

#	Article	IF	Citations
37	Detection of silent cells, synchronization and modulatory activity in developing cellular networks. Developmental Neurobiology, 2016, 76, 357-374.	3.0	21
38	Astrocytes are central in the pathomechanisms of vanishing white matter. Journal of Clinical Investigation, 2016, 126, 1512-1524.	8.2	113
39	Comparison of Mouse and Human Retinal Pigment Epithelium Gene Expression Profiles: Potential Implications for Age-Related Macular Degeneration. PLoS ONE, 2015, 10, e0141597.	2.5	47
40	Mice with megalencephalic leukoencephalopathy with cysts: A developmental angle. Annals of Neurology, 2015, 77, 114-131.	5.3	57
41	Human ciliary epithelia do express genes with retinal progenitor cell characteristics inÂvivo. Experimental Eye Research, 2014, 121, 41.	2.6	0
42	Olig1 Function Is Required to Repress Dlx1/2 and Interneuron Production in Mammalian Brain. Neuron, 2014, 81, 574-587.	8.1	63
43	Astrocyte-forebrain co-cultures: an in vitro model for studying the role of astrocytes in childhood white matter disorders. Tijdschrift Voor Kindergeneeskunde, 2013, 81, 66-66.	0.0	0
44	Cerebellar abnormalities following hypoxia alone compared to hypoxicâ€“ischemic forebrain injury in the developing rat brain. Neurobiology of Disease, 2011, 41, 138-146.	4.4	36
45	A Small-Molecule Smoothened Agonist Prevents Glucocorticoid-Induced Neonatal Cerebellar Injury. Science Translational Medicine, 2011, 3, 105ra104.	12.4	67
46	Conserved role of intragenic DNA methylation in regulating alternative promoters. Nature, 2010, 466, 253-257.	27.8	1,568
47	Dexamethasone Destabilizes Nmyc to Inhibit the Growth of Hedgehog-Associated Medulloblastoma. Cancer Research, 2010, 70, 5220-5225.	0.9	19
48	Small-molecule inhibitors reveal multiple strategies for Hedgehog pathway blockade. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14132-14137.	7.1	274
49	Hedgehog signaling has a protective effect in glucocorticoid-induced mouse neonatal brain injury through an 11Î²HSD2-dependent mechanism. Journal of Clinical Investigation, 2009, 119, 267-77.	8.2	103
50	Acquisition of Granule Neuron Precursor Identity Is a Critical Determinant of Progenitor Cell Competence to Form Shh-Induced Medulloblastoma. Cancer Cell, 2008, 14, 123-134.	16.8	572
51	Forkhead Transcription Factor FoxM1 Regulates Mitotic Entry and Prevents Spindle Defects in Cerebellar Granule Neuron Precursors. Molecular and Cellular Biology, 2007, 27, 8259-8270.	2.3	84
52	Stress, Depression and Hippocampal Apoptosis. CNS and Neurological Disorders - Drug Targets, 2006, 5, 531-546.	1.4	201
53	Chronic stress in the adult dentate gyrus reduces cell proliferation near the vasculature and VEGF and Flkâ€1 protein expression. European Journal of Neuroscience, 2005, 21, 1304-1314.	2.6	193
54	Suppressed proliferation and apoptotic changes in the rat dentate gyrus after acute and chronic stress are reversible. European Journal of Neuroscience, 2004, 19, 131-144.	2.6	286

#	Article	IF	Citations
55	Increased P27KIP1 protein expression in the dentate gyrus of chronically stressed rats indicates G1 arrest involvement. Neuroscience, 2004, 129, 593-601.	2.3	48
56	Effects of Chronic Stress on Structure and Cell Function in Rat Hippocampus and Hypothalamus. Stress, 2004, 7, 221-231.	1.8	281
57	Prominent decline of newborn cell proliferation, differentiation, and apoptosis in the aging dentate gyrus, in absence of an age-related hypothalamusâ€“pituitaryâ€“adrenal axis activation. Neurobiology of Aging, 2004, 25, 361-375.	3.1	288
58	Gene expression patterns in rat dentate granule cells: comparison between fresh and fixed tissue. Journal of Neuroscience Methods, 2003, 131, 205-211.	2.5	9
59	Therapeutic potential of human stem cell transplantations for Vanishing White Matter: A quest for the Goldilocks graft. CNS Neuroscience and Therapeutics, 0, , .	3.9	1