

# Vivi M Heine

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Conserved role of intragenic DNA methylation in regulating alternative promoters. <i>Nature</i> , 2010, 466, 253-257.	27.8	1,568
2	Acquisition of Granule Neuron Precursor Identity Is a Critical Determinant of Progenitor Cell Competence to Form Shh-Induced Medulloblastoma. <i>Cancer Cell</i> , 2008, 14, 123-134.	16.8	572
3	Prominent decline of newborn cell proliferation, differentiation, and apoptosis in the aging dentate gyrus, in absence of an age-related hypothalamus-pituitary-adrenal axis activation. <i>Neurobiology of Aging</i> , 2004, 25, 361-375.	3.1	288
4	Suppressed proliferation and apoptotic changes in the rat dentate gyrus after acute and chronic stress are reversible. <i>European Journal of Neuroscience</i> , 2004, 19, 131-144.	2.6	286
5	Effects of Chronic Stress on Structure and Cell Function in Rat Hippocampus and Hypothalamus. <i>Stress</i> , 2004, 7, 221-231.	1.8	281
6	Small-molecule inhibitors reveal multiple strategies for Hedgehog pathway blockade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14132-14137.	7.1	274
7	Stress, Depression and Hippocampal Apoptosis. <i>CNS and Neurological Disorders - Drug Targets</i> , 2006, 5, 531-546.	1.4	201
8	Chronic stress in the adult dentate gyrus reduces cell proliferation near the vasculature and VEGF and Flk-1 protein expression. <i>European Journal of Neuroscience</i> , 2005, 21, 1304-1314.	2.6	193
9	Astrocytes are central in the pathomechanisms of vanishing white matter. <i>Journal of Clinical Investigation</i> , 2016, 126, 1512-1524.	8.2	113
10	Hedgehog signaling has a protective effect in glucocorticoid-induced mouse neonatal brain injury through an 11 $\beta$ HSD2-dependent mechanism. <i>Journal of Clinical Investigation</i> , 2009, 119, 267-77.	8.2	103
11	Modeling psychiatric disorders: from genomic findings to cellular phenotypes. <i>Molecular Psychiatry</i> , 2016, 21, 1167-1179.	7.9	92
12	Forkhead Transcription Factor FoxM1 Regulates Mitotic Entry and Prevents Spindle Defects in Cerebellar Granule Neuron Precursors. <i>Molecular and Cellular Biology</i> , 2007, 27, 8259-8270.	2.3	84
13	A Small-Molecule Smoothed Agonist Prevents Glucocorticoid-Induced Neonatal Cerebellar Injury. <i>Science Translational Medicine</i> , 2011, 3, 105ra104.	12.4	67
14	The involvement of astrocytes in early-life adversity induced programming of the brain. <i>Glia</i> , 2019, 67, 1637-1653.	4.9	66
15	Olig1 Function Is Required to Repress <i>Dlx1/2</i> and Interneuron Production in Mammalian Brain. <i>Neuron</i> , 2014, 81, 574-587.	8.1	63
16	Neuron-Glia Interactions Increase Neuronal Phenotypes in Tuberous Sclerosis Complex Patient iPSC-Derived Models. <i>Stem Cell Reports</i> , 2019, 12, 42-56.	4.8	62
17	Mice with megalencephalic leukoencephalopathy with cysts: A developmental angle. <i>Annals of Neurology</i> , 2015, 77, 114-131.	5.3	57
18	Increased P27KIP1 protein expression in the dentate gyrus of chronically stressed rats indicates G1 arrest involvement. <i>Neuroscience</i> , 2004, 129, 593-601.	2.3	48

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19	Comparison of Mouse and Human Retinal Pigment Epithelium Gene Expression Profiles: Potential Implications for Age-Related Macular Degeneration. <i>PLoS ONE</i> , 2015, 10, e0141597.	2.5	47
20	Bergmann glia translocation: a new disease marker for vanishing white matter identifies therapeutic effects of Guanabenz treatment. <i>Neuropathology and Applied Neurobiology</i> , 2018, 44, 391-403.	3.2	39
21	Genetically-Informed Patient Selection for iPSC Studies of Complex Diseases May Aid in Reducing Cellular Heterogeneity. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 164.	3.7	37
22	Cerebellar abnormalities following hypoxia alone compared to hypoxicâ€“ischemic forebrain injury in the developing rat brain. <i>Neurobiology of Disease</i> , 2011, 41, 138-146.	4.4	36
23	Decanoic acid inhibits mTORC1 activity independent of glucose and insulin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23617-23625.	7.1	36
24	KCC2 expression levels are reduced in post mortem brain tissue of Rett syndrome patients. <i>Acta Neuropathologica Communications</i> , 2019, 7, 196.	5.2	33
25	Patterning factors during neural progenitor induction determine regional identity and differentiation potential in vitro. <i>Stem Cell Research</i> , 2018, 32, 25-34.	0.7	28
26	Multi-level characterization of balanced inhibitory-excitatory cortical neuron network derived from human pluripotent stem cells. <i>PLoS ONE</i> , 2017, 12, e0178533.	2.5	28
27	Stem Cell Derived Retinal Pigment Epithelium: The Role of Pigmentation as Maturation Marker and Gene Expression Profile Comparison with Human Endogenous Retinal Pigment Epithelium.. <i>Stem Cell Reviews and Reports</i> , 2017, 13, 659-669.	5.6	26
28	Pharmacological intervention to restore connectivity deficits of neuronal networks derived from ASD patient iPSC with a TSC2 mutation. <i>Molecular Autism</i> , 2020, 11, 80.	4.9	25
29	Cerebral Organoids: A Human Model for AAV Capsid Selection and Therapeutic Transgene Efficacy in the Brain. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 18, 167-175.	4.1	22
30	Detection of silent cells, synchronization and modulatory activity in developing cellular networks. <i>Developmental Neurobiology</i> , 2016, 76, 357-374.	3.0	21
31	Astrocyte Subtype Vulnerability in Stem Cell Models of Vanishing White Matter. <i>Annals of Neurology</i> , 2019, 86, 780-792.	5.3	20
32	Dexamethasone Destabilizes Nmyc to Inhibit the Growth of Hedgehog-Associated Medulloblastoma. <i>Cancer Research</i> , 2010, 70, 5220-5225.	0.9	19
33	<scp>A</scp>ffected astrocytes in the spinal cord of the leukodystrophy vanishing white matter. <i>Glia</i> , 2018, 66, 862-873.	4.9	19
34	Axonal abnormalities in vanishing white matter. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 429-444.	3.7	19
35	A human iPSC-astroglia neurodevelopmental model reveals divergent transcriptomic patterns in schizophrenia. <i>Translational Psychiatry</i> , 2021, 11, 554.	4.8	19
36	Leukodystrophies. <i>Neurology: Clinical Practice</i> , 2016, 6, 506-514.	1.6	18

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37	Generation of Isogenic Controls for In Vitro Disease Modelling of X-Chromosomal Disorders. <i>Stem Cell Reviews and Reports</i> , 2019, 15, 276-285.	5.6	16
38	Cell Replacement Therapy Improves Pathological Hallmarks in a Mouse Model of Leukodystrophy Vanishing White Matter. <i>Stem Cell Reports</i> , 2019, 12, 441-450.	4.8	15
39	Quantitative proteomic analysis of Rett iPSC-derived neuronal progenitors. <i>Molecular Autism</i> , 2020, 11, 38.	4.9	14
40	Copy number variants (CNVs): a powerful tool for iPSC-based modelling of ASD. <i>Molecular Autism</i> , 2020, 11, 42.	4.9	14
41	<i>Olig1</i> is required for noggin-induced neonatal myelin repair. <i>Annals of Neurology</i> , 2017, 81, 560-571.	5.3	13
42	Neuron-Glia Interactions in Tuberous Sclerosis Complex Affect the Synaptic Balance in 2D and Organoid Cultures. <i>Cells</i> , 2021, 10, 134.	4.1	13
43	Gene expression patterns in rat dentate granule cells: comparison between fresh and fixed tissue. <i>Journal of Neuroscience Methods</i> , 2003, 131, 205-211.	2.5	9
44	Stem cell therapy for white matter disorders: don't forget the microenvironment!. <i>Journal of Inherited Metabolic Disease</i> , 2016, 39, 513-518.	3.6	9
45	Differential Maturation of the Two Regulated Secretory Pathways in Human iPSC-Derived Neurons. <i>Stem Cell Reports</i> , 2017, 8, 659-672.	4.8	9
46	Adult mouse eIF2B $\mu$ Arg191His astrocytes display a normal integrated stress response in vitro. <i>Scientific Reports</i> , 2018, 8, 3773.	3.3	9
47	The Healthy and Diseased Microenvironments Regulate Oligodendrocyte Properties. <i>American Journal of Pathology</i> , 2018, 188, 39-52.	3.8	9
48	Comparative gene expression study and pathway analysis of the human iris- and the retinal pigment epithelium. <i>PLoS ONE</i> , 2017, 12, e0182983.	2.5	9
49	Streamlined 3D Cerebellar Differentiation Protocol with Optional 2D Modification. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	8
50	Systematic assessment of variability in the proteome of iPSC derivatives. <i>Stem Cell Research</i> , 2021, 56, 102512.	0.7	8
51	Glutamate Carrier Involvement in Mitochondrial Dysfunctioning in the Brain White Matter. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 151.	3.5	7
52	Simplified 3D protocol capable of generating early cortical neuroepithelium. <i>Biology Open</i> , 2017, 6, 402-406.	1.2	5
53	Evolution of adrenoleukodystrophy model systems. <i>Journal of Inherited Metabolic Disease</i> , 2021, 44, 544-553.	3.6	5
54	Co-culture of Human Stem Cell Derived Neurons and Oligodendrocyte Progenitor Cells. <i>Bio-protocol</i> , 2019, 9, e3350.	0.4	5

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55	InÂvivo targeting of a variant causing vanishing white matter using CRISPR/Cas9. <i>Molecular Therapy - Methods and Clinical Development</i> , 2022, 25, 17-25.	4.1	2
56	Cerebellar Developmentâ€™The Impact of Preterm Birth and Comorbidities. , 2017, , 1350-1362.e3.		1
57	Therapeutic potential of human stem cell transplantations for Vanishing White Matter: A quest for the Goldilocks graft. <i>CNS Neuroscience and Therapeutics</i> , 0, , .	3.9	1
58	Astrocyte-forebrain co-cultures: an in vitro model for studying the role of astrocytes in childhood white matter disorders. <i>Tijdschrift Voor Kindergeneeskunde</i> , 2013, 81, 66-66.	0.0	0
59	Human ciliary epithelia do express genes with retinal progenitor cell characteristics inÂvivo. <i>Experimental Eye Research</i> , 2014, 121, 41.	2.6	0