Charles R Vanderburg

List of Publications by Year in Descending Order

63 papers	6,577 citations	26 h-index	68 g-index
68 ext. papers	8,696 ext. citations	11.1 avg, IF	5.45 L-index

#	Paper	IF	Citations
63	Melanocortin 1 receptor activation protects against alpha-synuclein pathologies in models of Parkinson\'s disease.. *Molecular Neurodegeneration*, **2022**, 17, 16	19	0
62	Dissection of artifactual and confounding glial signatures by single-cell sequencing of mouse and human brain.. *Nature Neuroscience*, **2022**, 25, 306-316	25.5	6
61	Single-cell genomic profiling of human dopamine neurons identifies a population that selectively degenerates in Parkinson\'s disease.. *Nature Neuroscience*, **2022**, 25, 588-595	25.5	11
60	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. *Nature*, **2021**, 598, 103-110	50.4	23
59	A multimodal cell census and atlas of the mammalian primary motor cortex. *Nature*, **2021**, 598, 86-102	50.4	44
58	A transcriptomic atlas of mouse cerebellar cortex comprehensively defines cell types. *Nature*, **2021**, 598, 214-219	50.4	16
57	Deep learning and alignment of spatially resolved single-cell transcriptomes with Tangram. *Nature Methods*, **2021**, 18, 1352-1362	21.6	25
56	The Great Deceiver: miR-2392\'s Hidden Role in Driving SARS-CoV-2 Infection **2021**,		4
55	Promise and challenges of dystonia brain banking: establishing a human tissue repository for studies of X-Linked Dystonia-Parkinsonism. *Journal of Neural Transmission*, **2021**, 128, 575-587	4.3	2
54	Transcriptomic Analysis of Laser Capture Microdissected Tumors Reveals Cancer- and Stromal-Specific Molecular Subtypes of Pancreatic Ductal Adenocarcinoma. *Clinical Cancer Research* , **2021**, 27, 2314-2325	12.9	3
53	Megakaryocytes contain extranuclear histones and may be a source of platelet-associated histones during sepsis. *Scientific Reports*, **2020**, 10, 4621	4.9	4
52	Circulating miRNA Spaceflight Signature Reveals Targets for Countermeasure Development. *Cell Reports*, **2020**, 33, 108448	10.6	13
51	Single-Cell Multi-omic Integration Compares and Contrasts Features of Brain Cell Identity. *Cell*, **2019**, 177, 1873-1887.e17	56.2	378
50	Modulation of SPARC/Hevin Proteins in Alzheimer\'s Disease Brain Injury. *Journal of Alzheimer\'s Disease*, **2019**, 68, 695-710	4.3	12
49	Slide-seq: A scalable technology for measuring genome-wide expression at high spatial resolution. *Science*, **2019**, 363, 1463-1467	33.3	669
48	Identification of Circulating Serum Multi-MicroRNA Signatures in Human DLBCL Models. *Scientific Reports*, **2019**, 9, 17161	4.9	12
47	Tau protein liquid-liquid phase separation can initiate tau aggregation. *EMBO Journal*, **2018**, 37,	13	405

46	An in vitro paradigm to assess potential anti-A□antibodies for Alzheimer\'s disease. *Nature Communications*, **2018**, 9, 2676	17.4	26
45	Neuronal calcineurin transcriptional targets parallel changes observed in Alzheimer disease brain. *Journal of Neurochemistry*, **2018**, 147, 24-39	6	9
44	Ultra-Sensitive Detection of Circulating Serum microRNAs (miRNAs) in Diffuse Large B-Cell Lymphoma (DLBCL) Patient-Derived Xenograft (PDX) Models and Correlation with Disease Status in DLBCL Patient. *Blood*, **2018**, 132, 2973-2973	2.2	
43	Tau Protein Disrupts Nucleocytoplasmic Transport in Alzheimer\'s Disease. *Neuron*, **2018**, 99, 925-940.e7	13.9	169
42	miR-149 and miR-29c as candidates for bipolar disorder biomarkers. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*, **2017**, 174, 315-323	3.5	25
41	The melanoma-linked "redhead" MC1R influences dopaminergic neuron survival. *Annals of Neurology*, **2017**, 81, 395-406	9.4	22
40	Pathological correlations of [F-18]-AV-1451 imaging in non-alzheimer tauopathies. *Annals of Neurology*, **2017**, 81, 117-128	9.4	135
39	Lessons learned about [F-18]-AV-1451 off-target binding from an autopsy-confirmed Parkinson\'s case. *Acta Neuropathologica Communications*, **2017**, 5, 75	7.3	60
38	Metallosis in a Dog as a Long-Term Complication Following Total Hip Arthroplasty. *Veterinary Pathology*, **2017**, 54, 828-831	2.8	7
37	A Circulating microRNA Signature Predicts Age-Based Development of Lymphoma. *PLoS ONE*, **2017**, 12, e0170521	3.7	12
36	Local and Systemic Changes Associated with Long-term, Percutaneous, Static Implantation of Titanium Alloys in Rhesus Macaques (). *Comparative Medicine*, **2017**, 67, 165-175	1.6	8
35	Coagulation Biomarkers in Healthy Chinese-Origin Rhesus Macaques (Macaca mulatta). *Journal of the American Association for Laboratory Animal Science*, **2016**, 55, 252-9	1.3	1
34	Circulating microRNAs Predict the Initiation of NHL in a Novel In Vivo Model: Impact of Age and Sex Via a Systems Biology Approach. *Blood*, **2016**, 128, 4114-4114	2.2	
33	The Impact of Age and Sex in DLBCL: Systems Biology Analyses Identify Distinct Molecular Changes and Signaling Networks. *Cancer Informatics*, **2015**, 14, 141-8	2.4	15
32	Validating novel tau positron emission tomography tracer [F-18]-AV-1451 (T807) on postmortem brain tissue. *Annals of Neurology*, **2015**, 78, 787-800	9.4	448
31	Assessment of gene order computing methods for Alzheimer\'s disease. *BMC Medical Genomics*, **2013**, 6 Suppl 1, S8	3.7	3
30	A three-dimensional tissue culture model of bone formation utilizing rotational co-culture of human adult osteoblasts and osteoclasts. *Acta Biomaterialia*, **2013**, 9, 7908-16	10.8	27
29	Laser capture microdissection of metachromatically stained skeletal muscle allows quantification of fiber type specific gene expression. *Molecular and Cellular Biochemistry*, **2013**, 375, 159-70	4.2	11

28	De-repression of FOXO3a death axis by microRNA-132 and -212 causes neuronal apoptosis in Alzheimer\'s disease. *Human Molecular Genetics*, **2013**, 22, 3077-92	5.6	194
27	Differential expression of exosomal microRNAs in prefrontal cortices of schizophrenia and bipolar disorder patients. *PLoS ONE*, **2013**, 8, e48814	3.7	159
26	Exosomal cell-to-cell transmission of alpha synuclein oligomers. *Molecular Neurodegeneration*, **2012**, 7, 42	19	545
25	Increased expression of TrkB and Capzb2 accompanies preserved cognitive status in early Alzheimer disease pathology. *Journal of Neuropathology and Experimental Neurology*, **2012**, 71, 654-64	3.1	19
24	Studying protein degradation pathways in vivo using a cranial window-based approach. *Methods*, **2011**, 53, 194-200	4.6	4
23	Hypomorphic Notch 3 alleles link Notch signaling to ischemic cerebral small-vessel disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, E128-35	11.5	93
22	Modulators of cytoskeletal reorganization in CA1 hippocampal neurons show increased expression in patients at mid-stage Alzheimer\'s disease. *PLoS ONE*, **2010**, 5, e13337	3.7	13
21	Selective translational control of the Alzheimer amyloid precursor protein transcript by iron regulatory protein-1. *Journal of Biological Chemistry*, **2010**, 285, 31217-32	5.4	122
20	A special local clustering algorithm for identifying the genes associated with Alzheimer\'s disease. *IEEE Transactions on Nanobioscience*, **2010**, 9, 44-50	3.4	5
19	Capzb2 PROTEIN EXPRESSION IN THE BRAINS OF PATIENTS DIAGNOSED WITH ALZHEIMER\'S DISEASE AND HUNTINGTON\'S DISEASE. *Translational Neuroscience*, **2010**, 1, 55-58	1.2	2
18	Disruption of neural progenitors along the ventricular and subventricular zones in periventricular heterotopia. *Human Molecular Genetics*, **2009**, 18, 497-516	5.6	143
17	Independent component analysis of Alzheimer\'s DNA microarray gene expression data. *Molecular Neurodegeneration*, **2009**, 4, 5	19	52
16	Mutations in the FUS/TLS gene on chromosome 16 cause familial amyotrophic lateral sclerosis. *Science*, **2009**, 323, 1205-8	33.3	1896
15	A review of independent component analysis application to microarray gene expression data. *BioTechniques*, **2008**, 45, 501-20	2.5	78
14	Metal exposure and Alzheimer\'s pathogenesis. *Journal of Structural Biology*, **2006**, 155, 45-51	3.4	106
13	No alteration in tau exon 10 alternative splicing in tangle-bearing neurons of the Alzheimer\'s disease brain. *Acta Neuropathologica*, **2006**, 112, 439-49	14.3	33
12	Decreased levels of BDNF protein in Alzheimer temporal cortex are independent of BDNF polymorphisms. *Experimental Neurology*, **2005**, 194, 91-6	5.7	81
11	A549 lung epithelial cells grown as three-dimensional aggregates: alternative tissue culture model for Pseudomonas aeruginosa pathogenesis. *Infection and Immunity*, **2005**, 73, 1129-40	3.7	158

10	Three-dimensional tissue assemblies: novel models for the study of Salmonella enterica serovar Typhimurium pathogenesis. *Infection and Immunity*, **2001**, 69, 7106-20	3.7	102
9	In situ localization of cholesterol in skeletal muscle by use of a monoclonal antibody. *Journal of Applied Physiology*, **2000**, 89, 731-41	3.7	6
8	E-cadherin transforms embryonic corneal fibroblasts to stratified epithelium with desmosomes. *Cells Tissues Organs*, **1996**, 157, 87-104	2.1	38
7	Cytoplasmic loading of dyes, protein and plasmid DNA using an impact-mediated procedure. *BioTechniques*, **1994**, 17, 1118-25	2.5	9
6	Posttranscriptional control of embryonic rat skeletal muscle protein synthesis. Control at the level of translation by endogenous RNA. *Journal of Cell Biology*, **1988**, 107, 1085-98	7.3	12
5	Transcriptional-translational regulation of muscle-specific protein synthesis and its relationship to chondrogenic stimuli. *Journal of Biological Chemistry*, **1986**, 261, 1477-86	5.4	10
4	An integrated transcriptomic and epigenomic atlas of mouse primary motor cortex cell types		23
3	A transcriptomic atlas of the mouse cerebellum reveals regional specializations and novel cell types		28
2	Deep learning and alignment of spatially-resolved whole transcriptomes of single cells in the mouse brain with Tangram		17
1	A multimodal cell census and atlas of the mammalian primary motor cortex		12