

Charles R Vanderburg

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

10,569
citations

136885

32
h-index

143943

57
g-index

68
all docs

68
docs citations

68
times ranked

15777
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutations in the <i>FUS/TLS</i> Gene on Chromosome 16 Cause Familial Amyotrophic Lateral Sclerosis. <i>Science</i> , 2009, 323, 1205-1208.	6.0	2,302
2	Slide-seq: A scalable technology for measuring genome-wide expression at high spatial resolution. <i>Science</i> , 2019, 363, 1463-1467.	6.0	1,396
3	Single-Cell Multi-omic Integration Compares and Contrasts Features of Brain Cell Identity. <i>Cell</i> , 2019, 177, 1873-1887.e17.	13.5	844
4	Exosomal cell-to-cell transmission of alpha synuclein oligomers. <i>Molecular Neurodegeneration</i> , 2012, 7, 42.	4.4	708
5	Tau protein liquid-liquid phase separation can initiate tau aggregation. <i>EMBO Journal</i> , 2018, 37, .	3.5	696
6	Validating novel tau positron emission tomography tracer ¹⁸ F-AV1451 (T807) on postmortem brain tissue. <i>Annals of Neurology</i> , 2015, 78, 787-800.	2.8	535
7	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , 2021, 598, 86-102.	13.7	316
8	Tau Protein Disrupts Nucleocytoplasmic Transport in Alzheimer's Disease. <i>Neuron</i> , 2018, 99, 925-940.e7.	3.8	302
9	Deep learning and alignment of spatially resolved single-cell transcriptomes with Tangram. <i>Nature Methods</i> , 2021, 18, 1352-1362.	9.0	276
10	De-repression of FOXO3a death axis by microRNA-132 and -212 causes neuronal apoptosis in Alzheimer's disease. <i>Human Molecular Genetics</i> , 2013, 22, 3077-3092.	1.4	252
11	Differential Expression of Exosomal microRNAs in Prefrontal Cortices of Schizophrenia and Bipolar Disorder Patients. <i>PLoS ONE</i> , 2013, 8, e48814.	1.1	205
12	A549 Lung Epithelial Cells Grown as Three-Dimensional Aggregates: Alternative Tissue Culture Model for <i>Pseudomonas aeruginosa</i> Pathogenesis. <i>Infection and Immunity</i> , 2005, 73, 1129-1140.	1.0	190
13	Pathological correlations of ¹⁸ F-AV1451 imaging in non-Alzheimer tauopathies. <i>Annals of Neurology</i> , 2017, 81, 117-128.	2.8	174
14	Disruption of neural progenitors along the ventricular and subventricular zones in periventricular heterotopia. <i>Human Molecular Genetics</i> , 2009, 18, 497-516.	1.4	169
15	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. <i>Nature</i> , 2021, 598, 103-110.	13.7	166
16	Dissection of artifactual and confounding glial signatures by single-cell sequencing of mouse and human brain. <i>Nature Neuroscience</i> , 2022, 25, 306-316.	7.1	166
17	Single-cell genomic profiling of human dopamine neurons identifies a population that selectively degenerates in Parkinson's disease. <i>Nature Neuroscience</i> , 2022, 25, 588-595.	7.1	155
18	A transcriptomic atlas of mouse cerebellar cortex comprehensively defines cell types. <i>Nature</i> , 2021, 598, 214-219.	13.7	147

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19	Selective Translational Control of the Alzheimer Amyloid Precursor Protein Transcript by Iron Regulatory Protein-1. <i>Journal of Biological Chemistry</i> , 2010, 285, 31217-31232.	1.6	144
20	Metal exposure and Alzheimer's pathogenesis. <i>Journal of Structural Biology</i> , 2006, 155, 45-51.	1.3	121
21	Three-Dimensional Tissue Assemblies: Novel Models for the Study of Salmonella enterica Serovar Typhimurium Pathogenesis. <i>Infection and Immunity</i> , 2001, 69, 7106-7120.	1.0	117
22	Hypomorphic Notch 3 alleles link Notch signaling to ischemic cerebral small-vessel disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E128-35.	3.3	106
23	Decreased levels of BDNF protein in Alzheimer temporal cortex are independent of BDNF polymorphisms. <i>Experimental Neurology</i> , 2005, 194, 91-96.	2.0	105
24	A review of independent component analysis application to microarray gene expression data. <i>BioTechniques</i> , 2008, 45, 501-520.	0.8	92
25	Lessons learned about [F-18]-AV-1451 off-target binding from an autopsy-confirmed Parkinson's case. <i>Acta Neuropathologica Communications</i> , 2017, 5, 75.	2.4	85
26	Independent component analysis of Alzheimer's DNA microarray gene expression data. <i>Molecular Neurodegeneration</i> , 2009, 4, 5.	4.4	72
27	An in vitro paradigm to assess potential anti-A β antibodies for Alzheimer's disease. <i>Nature Communications</i> , 2018, 9, 2676.	5.8	50
28	E-Cadherin Transforms Embryonic Corneal Fibroblasts to Stratified Epithelium with Desmosomes. <i>Cells Tissues Organs</i> , 1996, 157, 87-104.	1.3	42
29	No alteration in tau exon 10 alternative splicing in tangle-bearing neurons of the Alzheimer's disease brain. <i>Acta Neuropathologica</i> , 2006, 112, 439-449.	3.9	41
30	The melanoma-linked <i>MC1R</i> influences dopaminergic neuron survival. <i>Annals of Neurology</i> , 2017, 81, 395-406.	2.8	41
31	Circulating miRNA Spaceflight Signature Reveals Targets for Countermeasure Development. <i>Cell Reports</i> , 2020, 33, 108448.	2.9	35
32	A three-dimensional tissue culture model of bone formation utilizing rotational co-culture of human adult osteoblasts and osteoclasts. <i>Acta Biomaterialia</i> , 2013, 9, 7908-7916.	4.1	34
33	miR-149 and miR-29c as candidates for bipolar disorder biomarkers. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2017, 174, 315-323.	1.1	34
34	Increased Expression of TrkB and Capzb2 Accompanies Preserved Cognitive Status in Early Alzheimer Disease Pathology. <i>Journal of Neuropathology and Experimental Neurology</i> , 2012, 71, 654-664.	0.9	26
35	Identification of Circulating Serum Multi-MicroRNA Signatures in Human DLBCL Models. <i>Scientific Reports</i> , 2019, 9, 17161.	1.6	25
36	Modulation of SPARC/Hevin Proteins in Alzheimer's Disease Brain Injury. <i>Journal of Alzheimer's Disease</i> , 2019, 68, 695-710.	1.2	23

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37	Modulators of Cytoskeletal Reorganization in CA1 Hippocampal Neurons Show Increased Expression in Patients at Mid-Stage Alzheimer's Disease. <i>PLoS ONE</i> , 2010, 5, e13337.	1.1	19
38	The Impact of Age and Sex in DLBCL: Systems Biology Analyses Identify Distinct Molecular Changes and Signaling Networks. <i>Cancer Informatics</i> , 2015, 14, CIN.S34144.	0.9	18
39	A Circulating microRNA Signature Predicts Age-Based Development of Lymphoma. <i>PLoS ONE</i> , 2017, 12, e0170521.	1.1	18
40	Megakaryocytes contain extranuclear histones and may be a source of platelet-associated histones during sepsis. <i>Scientific Reports</i> , 2020, 10, 4621.	1.6	17
41	A Special Local Clustering Algorithm for Identifying the Genes Associated With Alzheimer's Disease. <i>IEEE Transactions on Nanobioscience</i> , 2010, 9, 44-50.	2.2	16
42	Neuronal calcineurin transcriptional targets parallel changes observed in Alzheimer disease brain. <i>Journal of Neurochemistry</i> , 2018, 147, 24-39.	2.1	14
43	Posttranscriptional control of embryonic rat skeletal muscle protein synthesis. Control at the level of translation by endogenous RNA.. <i>Journal of Cell Biology</i> , 1988, 107, 1085-1098.	2.3	12
44	Metallosis in a Dog as a Long-Term Complication Following Total Hip Arthroplasty. <i>Veterinary Pathology</i> , 2017, 54, 828-831.	0.8	12
45	Transcriptional-translational regulation of muscle-specific protein synthesis and its relationship to chondrogenic stimuli. <i>Journal of Biological Chemistry</i> , 1986, 261, 1477-86.	1.6	12
46	Laser capture microdissection of metachromatically stained skeletal muscle allows quantification of fiber type specific gene expression. <i>Molecular and Cellular Biochemistry</i> , 2013, 375, 159-70.	1.4	11
47	Transcriptomic Analysis of Laser Capture Microdissected Tumors Reveals Cancer- and Stromal-Specific Molecular Subtypes of Pancreatic Ductal Adenocarcinoma. <i>Clinical Cancer Research</i> , 2021, 27, 2314-2325.	3.2	10
48	Cytoplasmic loading of dyes, protein and plasmid DNA using an impact-mediated procedure. <i>BioTechniques</i> , 1994, 17, 1118-25.	0.8	10
49	Local and Systemic Changes Associated with Long-term, Percutaneous, Static Implantation of Titanium Alloys in Rhesus Macaques (). <i>Comparative Medicine</i> , 2017, 67, 165-175.	0.4	9
50	Melanocortin 1 receptor activation protects against alpha-synuclein pathologies in models of Parkinson's disease. <i>Molecular Neurodegeneration</i> , 2022, 17, 16.	4.4	8
51	In situ localization of cholesterol in skeletal muscle by use of a monoclonal antibody. <i>Journal of Applied Physiology</i> , 2000, 89, 731-741.	1.2	7
52	Assessment of gene order computing methods for Alzheimer's disease. <i>BMC Medical Genomics</i> , 2013, 6, S8.	0.7	6
53	Studying protein degradation pathways in vivo using a cranial window-based approach. <i>Methods</i> , 2011, 53, 194-200.	1.9	4
54	Promise and challenges of dystonia brain banking: establishing a human tissue repository for studies of X-Linked Dystonia-Parkinsonism. <i>Journal of Neural Transmission</i> , 2021, 128, 575-587.	1.4	4

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55	Capzb2 protein expression in the brains of patients diagnosed with Alzheimer's disease and Huntington's disease. <i>Translational Neuroscience</i> , 2010, 1, 55-58.	0.7	2
56	Coagulation Biomarkers in Healthy Chinese-Origin Rhesus Macaques (<i>Macaca mulatta</i>). <i>Journal of the American Association for Laboratory Animal Science</i> , 2016, 55, 252-9.	0.6	1
57	Circulating microRNAs Predict the Initiation of NHL in a Novel In Vivo Model: Impact of Age and Sex Via a Systems Biology Approach. <i>Blood</i> , 2016, 128, 4114-4114.	0.6	0
58	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. <i>Blood</i> , 2018, 132, 2973-2973.	0.6	0