

# Eric J Vallender

## List of Publications by Year in descending order

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82  
papers

5,863  
citations

147801

31  
h-index

76900

74  
g-index

84  
all docs

84  
docs citations

84  
times ranked

7118  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionary and Biomedical Insights from the Rhesus Macaque Genome. <i>Science</i> , 2007, 316, 222-234.	12.6	1,283
2	<i>Microcephalin</i> , a Gene Regulating Brain Size, Continues to Evolve Adaptively in Humans. <i>Science</i> , 2005, 309, 1717-1720.	12.6	447
3	Ongoing Adaptive Evolution of <i>ASPM</i> , a Brain Size Determinant in <i>Homo sapiens</i> . <i>Science</i> , 2005, 309, 1720-1722.	12.6	445
4	Accelerated Evolution of Nervous System Genes in the Origin of <i>Homo sapiens</i> . <i>Cell</i> , 2004, 119, 1027-1040.	28.9	404
5	Biogeography of the Intestinal Mucosal and Luminal Microbiome in the Rhesus Macaque. <i>Cell Host and Microbe</i> , 2015, 17, 385-391.	11.0	273
6	Adaptive evolution of <i>ASPM</i> , a major determinant of cerebral cortical size in humans. <i>Human Molecular Genetics</i> , 2004, 13, 489-494.	2.9	232
7	Positive selection on the human genome. <i>Human Molecular Genetics</i> , 2004, 13, R245-R254.	2.9	215
8	Reconstructing the evolutionary history of <i>microcephalin</i> , a gene controlling human brain size. <i>Human Molecular Genetics</i> , 2004, 13, 1139-1145.	2.9	191
9	Evidence that the adaptive allele of the brain size gene <i>microcephalin</i> introgressed into <i>Homo sapiens</i> from an archaic <i>Homo</i> lineage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18178-18183.	7.1	127
10	Altered neuro-inflammatory gene expression in hippocampus in major depressive disorder. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2018, 82, 177-186.	4.8	108
11	Functional characterization of the human <i>TPH2</i> 5' regulatory region: untranslated region and polymorphisms modulate gene expression in vitro. <i>Human Genetics</i> , 2008, 122, 645-657.	3.8	106
12	How mammalian sex chromosomes acquired their peculiar gene content. <i>BioEssays</i> , 2004, 26, 159-169.	2.5	103
13	Rhesus Monkey Trace Amine-Associated Receptor 1 Signaling: Enhancement by Monoamine Transporters and Attenuation by the D2 Autoreceptor in Vitro. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 321, 116-127.	2.5	103
14	Analysis of copy number variation in the rhesus macaque genome identifies candidate loci for evolutionary and human disease studies. <i>Human Molecular Genetics</i> , 2008, 17, 1127-1136.	2.9	101
15	The population genomics of rhesus macaques ( <i>Macaca mulatta</i> ) based on whole-genome sequences. <i>Genome Research</i> , 2016, 26, 1651-1662.	5.5	101
16	Genetic basis of human brain evolution. <i>Trends in Neurosciences</i> , 2008, 31, 637-644.	8.6	88
17	Molecular evolution of the brain size regulator genes <i>CDK5RAP2</i> and <i>CENPJ</i> . <i>Gene</i> , 2006, 375, 75-79.	2.2	77
18	Normal thermoregulatory responses to 3-iodothyronamine, trace amines and amphetamine-like psychostimulants in trace amine associated receptor 1 knockout mice. <i>Journal of Neuroscience Research</i> , 2010, 88, 1962-1969.	2.9	77

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19	Augmentation of methamphetamine-induced behaviors in transgenic mice lacking the trace amine-associated receptor 1. <i>Pharmacology Biochemistry and Behavior</i> , 2012, 101, 201-207.	2.9	77
20	Expanding whole exome resequencing into non-human primates. <i>Genome Biology</i> , 2011, 12, R87.	9.6	68
21	Genomic Divergence Between Human and Chimpanzee Estimated from Large-Scale Alignments of Genomic Sequences. <i>Journal of Heredity</i> , 2001, 92, 481-489.	2.4	64
22	Trace Amine Associated Receptor 1 Signaling in Activated Lymphocytes. <i>Journal of NeuroImmune Pharmacology</i> , 2012, 7, 866-876.	4.1	64
23	Refinement of primate copy number variation hotspots identifies candidate genomic regions evolving under positive selection. <i>Genome Biology</i> , 2011, 12, R52.	8.8	58
24	Response to Comment on "Ongoing Adaptive Evolution of ASPM, a Brain Size Determinant in Homo sapiens" and "Microcephalin, a Gene Regulating Brain Size, Continues to Evolve Adaptively in Humans". <i>Science</i> , 2006, 313, 172b-172b.	12.6	51
25	Nonhuman Primate Models in the Genomic Era: A Paradigm Shift. <i>ILAR Journal</i> , 2013, 54, 154-165.	1.8	50
26	A pharmacogenetic model of naltrexone-induced attenuation of alcohol consumption in rhesus monkeys. <i>Drug and Alcohol Dependence</i> , 2010, 109, 252-256.	3.2	48
27	Quantitative molecular assessment of chimerism across tissues in marmosets and tamarins. <i>BMC Genomics</i> , 2012, 13, 98.	2.8	46
28	A highly unexpected strong correlation between fixation probability of nonsynonymous mutations and mutation rate. <i>Trends in Genetics</i> , 2005, 21, 381-385.	6.7	45
29	Sonic Hedgehog, a key development gene, experienced intensified molecular evolution in primates. <i>Human Molecular Genetics</i> , 2006, 15, 2031-2037.	2.9	37
30	Systematically Assessing the Influence of 3-Dimensional Structural Context on the Molecular Evolution of Mammalian Proteomes. <i>Molecular Biology and Evolution</i> , 2006, 23, 2131-2133.	8.9	35
31	Trace Amine Associated Receptor 1 Modulates Behavioral Effects of Ethanol. <i>Substance Abuse: Research and Treatment</i> , 2013, 7, SART.S12110.	0.9	32
32	Functional variation in the 3' untranslated region of the serotonin transporter in human and rhesus macaque. <i>Genes, Brain and Behavior</i> , 2008, 7, 690-697.	2.2	31
33	Functional evolution of the trace amine associated receptors in mammals and the loss of TAAR1 in dogs. <i>BMC Evolutionary Biology</i> , 2010, 10, 51.	3.2	31
34	Extensive contribution of embryonic stem cells to the development of an evolutionarily divergent host. <i>Human Molecular Genetics</i> , 2008, 17, 27-37.	2.9	29
35	The effect of rearing experience and TPH2 genotype on HPA axis function and aggression in rhesus monkeys: A retrospective analysis. <i>Hormones and Behavior</i> , 2010, 57, 184-191.	2.1	29
36	The resurgence and genetic implications of New World primates in biomedical research. <i>Trends in Genetics</i> , 2012, 28, 586-591.	6.7	29

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37	<i>TPH2</i> and <i>3</i> regulatory polymorphisms are differentially associated with HPA axis function and self-injurious behavior in rhesus monkeys. <i>Genes, Brain and Behavior</i> , 2010, 9, 335-347.	2.2	27
38	Evolutionary conservation in genes underlying human psychiatric disorders. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 283.	2.0	27
39	Risk-taking behaviors and stressors differentially predict suicidal preparation, non-fatal suicide attempts, and suicide deaths. <i>Psychiatry Research</i> , 2018, 270, 160-167.	3.3	27
40	Cloning, expression, and functional analysis of rhesus monkey trace amine-associated receptor 6: Evidence for lack of monoaminergic association. <i>Journal of Neuroscience Research</i> , 2008, 86, 3435-3446.	2.9	25
41	Genome-wide DNA methylomic differences between dorsolateral prefrontal and temporal pole cortices of bipolar disorder. <i>Journal of Psychiatric Research</i> , 2019, 117, 45-54.	3.1	24
42	Effects of chromosomal rearrangements on human-chimpanzee molecular evolution. <i>Genomics</i> , 2004, 84, 757-761.	2.9	23
43	Polymorphisms in the <i>3</i> UTR of the serotonin transporter are associated with cognitive flexibility in rhesus macaques. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2009, 150B, 467-475.	1.7	23
44	Resources for genetic management and genomics research on non-human primates at the National Primate Research Centers (NPRCs). <i>Journal of Medical Primatology</i> , 2009, 38, 17-23.	0.6	23
45	Development and validation of a SNP-based assay for inferring the genetic ancestry of rhesus macaques ( <i>Macaca mulatta</i> ). <i>American Journal of Primatology</i> , 2014, 76, 1105-1113.	1.7	23
46	Transcriptomic profiling of the ventral tegmental area and nucleus accumbens in rhesus macaques following long-term cocaine self-administration. <i>Drug and Alcohol Dependence</i> , 2017, 175, 9-23.	3.2	23
47	Human Expression Variation in the Mu-Opioid Receptor is Paralleled in Rhesus Macaque. <i>Behavior Genetics</i> , 2008, 38, 390-395.	2.1	21
48	A primate-specific acceleration in the evolution of the caspase-dependent apoptosis pathway. <i>Human Molecular Genetics</i> , 2006, 15, 3034-3040.	2.9	20
49	Multiple independent origins of sex chromosomes in amniotes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18031-18032.	7.1	20
50	Diverse fates of paralogs following segmental duplication of telomeric genes. <i>Genomics</i> , 2004, 84, 239-247.	2.9	19
51	Genetic substructure in cynomolgus macaques ( <i>Macaca fascicularis</i> ) on the island of Mauritius. <i>BMC Genomics</i> , 2014, 15, 748.	2.8	17
52	The X chromosome: not just her brother's keeper. <i>Nature Genetics</i> , 2005, 37, 343-345.	21.4	16
53	Alcohol-induced changes in the gut microbiome and metabolome of rhesus macaques. <i>Psychopharmacology</i> , 2019, 236, 1531-1544.	3.1	16
54	Exploring the Origins of the Human Brain through Molecular Evolution. <i>Brain, Behavior and Evolution</i> , 2008, 72, 168-177.	1.7	14

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55	Bioinformatic approaches to identifying orthologs and assessing evolutionary relationships. <i>Methods</i> , 2009, 49, 50-55.	3.8	12
56	Systematic mapping of occluded genes by cell fusion reveals prevalence and stability of <i>cis</i> -mediated silencing in somatic cells. <i>Genome Research</i> , 2014, 24, 267-280.	5.5	12
57	Convergent Balancing Selection on the Mu-Opioid Receptor in Primates. <i>Molecular Biology and Evolution</i> , 2017, 34, 1629-1643.	8.9	12
58	Comparative genomics of <i>Bifidobacterium</i> species isolated from marmosets and humans. <i>American Journal of Primatology</i> , 2019, 81, e983.	1.7	12
59	Naturally occurring, physiologically normal, primate chimeras. <i>Chimerism</i> , 2012, 3, 43-44.	0.7	11
60	SPEED: a molecular-evolution-based database of mammalian orthologous groups. <i>Bioinformatics</i> , 2006, 22, 2835-2837.	4.1	9
61	Uncovering the mutation-fixation correlation in short lineages. <i>BMC Evolutionary Biology</i> , 2007, 7, 168.	3.2	9
62	Current practices in nutrition management and disease incidence of common marmosets ( <i>Callithrix jacchus</i> ). <i>Journal of Medical Primatology</i> , 2021, 50, 164-175.	0.6	8
63	Twinning and survivorship of captive common marmosets ( <i>Callithrix jacchus</i> ) and cotton-top tamarins ( <i>Saguinus oedipus</i> ). <i>Journal of the American Association for Laboratory Animal Science</i> , 2014, 53, 7-11.	1.2	8
64	Decreased core symptoms of mania and utilization of lithium/mood stabilizing anticonvulsants in U.S. bipolar I patients of African vs European ancestry. <i>Journal of Affective Disorders</i> , 2020, 260, 361-365.	4.1	7
65	Large-scale polymorphism discovery in macaque G-protein coupled receptors. <i>BMC Genomics</i> , 2013, 14, 703.	2.8	6
66	MicrobiomeR: An R Package for Simplified and Standardized Microbiome Analysis Workflows. <i>Journal of Open Source Software</i> , 2019, 4, 1299.	4.6	6
67	Genetic correlates of the evolving primate brain. <i>Progress in Brain Research</i> , 2012, 195, 27-44.	1.4	5
68	Persistent negative effects of alcohol drinking on aspects of novelty-directed behavior in male rhesus macaques. <i>Alcohol</i> , 2017, 63, 19-26.	1.7	5
69	In Vitro Effects of Ligand Bias on Primate Mu Opioid Receptor Downstream Signaling. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3999.	4.1	5
70	Comparative genetic approaches to the evolution of human brain and behavior. <i>American Journal of Human Biology</i> , 2011, 23, 53-64.	1.6	4
71	Genetics of human brain evolution. <i>Progress in Brain Research</i> , 2019, 250, 3-39.	1.4	4
72	The BDNF Val66Met Polymorphism Moderates the Relationship Between Posttraumatic Stress Disorder and Trauma Script-evoked Attentional Bias to Cocaine Cues Among Patients with Cocaine Dependence. <i>Journal of Anxiety Disorders</i> , 2020, 72, 102223.	3.2	4

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73	Resource brief: The National Non-Human Primate DNA Bank. <i>Methods</i> , 2009, 49, 3-4.	3.8	3
74	The roles of borderline personality disorder symptoms and dispositional capability for suicide in suicidal ideation and suicide attempts: Examination of the COMT Val158Met polymorphism. <i>Psychiatry Research</i> , 2021, 302, 114011.	3.3	3
75	Pedigree reconstruction and distant pairwise relatedness estimation from genome sequence data: A demonstration in a population of rhesus macaques ( <i>Macaca mulatta</i> ). <i>Molecular Ecology Resources</i> , 2021, 21, 1333-1346.	4.8	3
76	Growth-associated protein-43 and ephrin B3 induction in the brain of adult SIV-infected rhesus macaques. <i>Journal of NeuroVirology</i> , 2011, 17, 455-468.	2.1	2
77	How Brains Are Built: Genetics and Evolution. <i>Brain, Behavior and Evolution</i> , 2013, 81, 71-73.	1.7	2
78	Bringing non-human primate research into the post-genomic era: how monkeys are teaching us about elite controllers of HIV/AIDS. <i>Genome Biology</i> , 2014, 15, 507.	8.8	2
79	Motivating and Discouraging Factors for Bipolar Patient Participation in Genomic Research. <i>Public Health Genomics</i> , 2021, 24, 89-98.	1.0	2
80	The Genome of the Common Marmoset. , 2019, , 313-333.		1
81	Spontaneous endometriosis in rhesus macaques: evidence for a genetic association with specific Mamu-A1 alleles. <i>Primate Biology</i> , 2017, 4, 117-125.	1.0	1
82	Comparison of Demographic and Clinical Features of Bipolar Disorder in Persons of African and European Ancestry. <i>Journal of Racial and Ethnic Health Disparities</i> , 2023, 10, 367-372.	3.2	1