

# Deborah C Mash

## List of Publications by Year in descending order

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121  
papers

23,869  
citations

36303

51  
h-index

18647

119  
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136  
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136  
docs citations

136  
times ranked

43053  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Genotype-Tissue Expression (GTEx) project. <i>Nature Genetics</i> , 2013, 45, 580-585.	21.4	6,815
2	The Genotype-Tissue Expression (GTEx) pilot analysis: Multitissue gene regulation in humans. <i>Science</i> , 2015, 348, 648-660.	12.6	4,659
3	Genetic meta-analysis of diagnosed Alzheimer's disease identifies new risk loci and implicates APOE, tau, immunity and lipid processing. <i>Nature Genetics</i> , 2019, 51, 414-430.	21.4	1,962
4	Dynamics of Hippocampal Neurogenesis in Adult Humans. <i>Cell</i> , 2013, 153, 1219-1227.	28.9	1,523
5	Rare coding variants in PLCG2, ABI3, and TREM2 implicate microglial-mediated innate immunity in Alzheimer's disease. <i>Nature Genetics</i> , 2017, 49, 1373-1384.	21.4	783
6	Genome-Wide Association Meta-analysis of Neuropathologic Features of Alzheimer's Disease and Related Dementias. <i>PLoS Genetics</i> , 2014, 10, e1004606.	3.5	305
7	Immunocytochemical localization of the dopamine transporter in human brain. <i>Journal of Comparative Neurology</i> , 1999, 409, 38-56.	1.6	282
8	Cocaine: A Unique Cocaine Metabolite Displays High Affinity for the Dopamine Transporter. <i>Journal of Neurochemistry</i> , 1991, 56, 698-701.	3.9	272
9	A novel Alzheimer disease locus located near the gene encoding tau protein. <i>Molecular Psychiatry</i> , 2016, 21, 108-117.	7.9	260
10	Differential cholinergic innervation within functional subdivisions of the human cerebral cortex: A choline acetyltransferase study. <i>Journal of Comparative Neurology</i> , 1992, 318, 316-328.	1.6	256
11	A Quantitative Proteome Map of the Human Body. <i>Cell</i> , 2020, 183, 269-283.e19.	28.9	243
12	Cyanobacterial blooms and the occurrence of the neurotoxin, beta-N-methylamino-L-alanine (BMAA), in South Florida aquatic food webs. <i>Harmful Algae</i> , 2010, 9, 620-635.	4.8	217
13	Substance-specific and shared transcription and epigenetic changes in the human hippocampus chronically exposed to cocaine and alcohol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6626-6631.	7.1	214
14	Differential Regulation of Molecular Subtypes of Muscarinic Receptors in Alzheimer's Disease. <i>Journal of Neurochemistry</i> , 1995, 64, 1888-1891.	3.9	195
15	Immunochemical analysis of dopamine transporter protein in Parkinson's disease. <i>Annals of Neurology</i> , 1997, 41, 530-539.	5.3	190
16	Dietary exposure to an environmental toxin triggers neurofibrillary tangles and amyloid deposits in the brain. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152397.	2.6	176
17	Beyond Guam: The cyanobacteria/BMAA hypothesis of the cause of ALS and other neurodegenerative diseases. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2009, 10, 7-20.	2.1	170
18	Determinants of buildup of the toxic dopamine metabolite DOPAL in Parkinson's disease. <i>Journal of Neurochemistry</i> , 2013, 126, 591-603.	3.9	169

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19	Effects of Multiple Genetic Loci on Age at Onset in Late-Onset Alzheimer Disease. <i>JAMA Neurology</i> , 2014, 71, 1394.	9.0	166
20	Transethnic genome-wide scan identifies novel Alzheimer's disease loci. <i>Alzheimer's and Dementia</i> , 2017, 13, 727-738.	0.8	166
21	Cholinergic innervation of the human striatum, globus pallidus, subthalamic nucleus, substantia nigra, and red nucleus. <i>Journal of Comparative Neurology</i> , 1992, 323, 252-268.	1.6	154
22	Dopamine transporter messenger RNA in Parkinson's disease and control substantia nigra neurons. <i>Annals of Neurology</i> , 1994, 35, 494-498.	5.3	147
23	Loss of high-affinity agonist binding to M1 muscarinic receptors in Alzheimer's disease: Implications for the failure of cholinergic replacement therapies. <i>Annals of Neurology</i> , 1991, 29, 256-262.	5.3	142
24	Dopamine transport function is elevated in cocaine users. <i>Journal of Neurochemistry</i> , 2002, 81, 292-300.	3.9	142
25	Robust single-cell DNA methylome profiling with snmC-seq2. <i>Nature Communications</i> , 2018, 9, 3824.	12.8	138
26	Excited Delirium Syndrome (ExDS): Defining Based on a Review of the Literature. <i>Journal of Emergency Medicine</i> , 2012, 43, 897-905.	0.7	124
27	Cocaine Abusers Have an Overexpression of $\beta$ -Synuclein in Dopamine Neurons. <i>Journal of Neuroscience</i> , 2003, 23, 2564-2571.	3.6	119
28	Fatal Excited Delirium Following Cocaine Use: Epidemiologic Findings Provide New Evidence for Mechanisms of Cocaine Toxicity. <i>Journal of Forensic Sciences</i> , 1997, 42, 25-31.	1.6	113
29	Cocaine-associated agitated delirium and the neuroleptic malignant syndrome. <i>American Journal of Emergency Medicine</i> , 1996, 14, 425-428.	1.6	112
30	Brain biomarkers for identifying excited delirium as a cause of sudden death. <i>Forensic Science International</i> , 2009, 190, e13-e19.	2.2	108
31	Ibogaine: Complex Pharmacokinetics, Concerns for Safety, and Preliminary Efficacy Measures. <i>Annals of the New York Academy of Sciences</i> , 2000, 914, 394-401.	3.8	106
32	Gene Expression in Human Hippocampus from Cocaine Abusers Identifies Genes which Regulate Extracellular Matrix Remodeling. <i>PLoS ONE</i> , 2007, 2, e1187.	2.5	102
33	Characterization and Distribution of Transferrin Receptors in the Rat Brain. <i>Journal of Neurochemistry</i> , 1990, 55, 1972-1979.	3.9	99
34	Medication Development of Ibogaine as a Pharmacotherapy for Drug Dependence. <i>Annals of the New York Academy of Sciences</i> , 1998, 844, 274-292.	3.8	99
35	D3 Dopamine and Kappa Opioid Receptor Alterations in Human Brain of Cocaine-overdose Victims. <i>Annals of the New York Academy of Sciences</i> , 1999, 877, 507-522.	3.8	98
36	Visualizing Dopamine and Serotonin Transporters in the Human Brain with the Potent Cocaine Analogue [ <sup>125</sup> I]RTI $\alpha$ 55: In Vitro Binding and Autoradiographic Characterization. <i>Journal of Neurochemistry</i> , 1994, 62, 549-556.	3.9	98

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37	Cyanobacterial Neurotoxin $\beta$ -N-Methylamino-L-alanine (BMAA) in Shark Fins. <i>Marine Drugs</i> , 2012, 10, 509-520.	4.6	93
38	Identification of the Sites of Tau Hyperphosphorylation and Activation of Tau Kinases in Synucleinopathies and Alzheimer's Diseases. <i>PLoS ONE</i> , 2013, 8, e75025.	2.5	85
39	GABAergic Gene Expression in Postmortem Hippocampus from Alcoholics and Cocaine Addicts; Corresponding Findings in Alcohol-Naïve P and NP Rats. <i>PLoS ONE</i> , 2012, 7, e29369.	2.5	84
40	The natural non-protein amino acid N- $\beta$ -methylamino-l-alanine (BMAA) is incorporated into protein during synthesis. <i>Amino Acids</i> , 2014, 46, 2553-2559.	2.7	80
41	Prevalent Polymorphism in Thyroid Hormone-Activating Enzyme Leaves a Genetic Fingerprint That Underlies Associated Clinical Syndromes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 920-933.	3.6	75
42	Repeat expansions in the C9ORF72 gene contribute to Alzheimer's disease in Caucasians. <i>Neurobiology of Aging</i> , 2013, 34, 1519.e5-1519.e12.	3.1	74
43	Pharmacological screen for activities of 12-hydroxyibogamine: a primary metabolite of the indole alkaloid ibogaine. <i>Psychopharmacology</i> , 1996, 127, 10-18.	3.1	73
44	Criteria for the Interpretation of Cocaine Levels in Human Biological Samples and Their Relation to the Cause of Death. <i>American Journal of Forensic Medicine and Pathology</i> , 2004, 25, 1-10.	0.8	73
45	Chapter 8 Ibogaine in the treatment of heroin withdrawal. <i>The Alkaloids Chemistry and Biology</i> , 2001, 56, 155-171.	2.0	71
46	Somatic mtDNA Mutation Spectra in the Aging Human Putamen. <i>PLoS Genetics</i> , 2013, 9, e1003990.	3.5	69
47	The neuroprotective enzyme CYP2D6 increases in the brain with age and is lower in Parkinson's disease patients. <i>Neurobiology of Aging</i> , 2012, 33, 2160-2171.	3.1	68
48	CYP3A5 Mediates Effects of Cocaine on Human Neocortico genesis: Studies using an In Vitro 3D Self-Organized hPSC Model with a Single Cortex-Like Unit. <i>Neuropsychopharmacology</i> , 2017, 42, 774-784.	5.4	68
49	A vast resource of allelic expression data spanning human tissues. <i>Genome Biology</i> , 2020, 21, 234.	8.8	68
50	Multiregional Gene Expression Profiling Identifies MRPS6 as a Possible Candidate Gene for Parkinson's Disease. <i>Gene Expression</i> , 2006, 13, 205-215.	1.2	67
51	Species and cell-type properties of classically defined human and rodent neurons and glia. <i>ELife</i> , 2018, 7, .	6.0	66
52	Integrated Whole Transcriptome and DNA Methylation Analysis Identifies Gene Networks Specific to Late-Onset Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015, 44, 977-987.	2.6	62
53	Cerebral uptake and protein incorporation of cyanobacterial toxin $\beta$ -N-methylamino-L-alanine. <i>NeuroReport</i> , 2013, 24, 779-784.	1.2	61
54	Nicotinic $\alpha$ 5 receptor subunit mRNA expression is associated with distant 5' upstream polymorphisms. <i>European Journal of Human Genetics</i> , 2011, 19, 76-83.	2.8	58

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55	Single nucleus multi-omics identifies human cortical cell regulatory genome diversity. <i>Cell Genomics</i> , 2022, 2, 100107.	6.5	58
56	Cocaine abuse elevates alpha-synuclein and dopamine transporter levels in the human striatum. <i>NeuroReport</i> , 2005, 16, 1489-1493.	1.2	52
57	A Common DIO2 Polymorphism and Alzheimer Disease Dementia in African and European Americans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 1818-1826.	3.6	52
58	National Association of Medical Examiners Position Paper on the Certification of Cocaine-Related Deaths. <i>American Journal of Forensic Medicine and Pathology</i> , 2004, 25, 11-13.	0.8	51
59	Genome-wide brain DNA methylation analysis suggests epigenetic reprogramming in Parkinson disease. <i>Neurology: Genetics</i> , 2019, 5, e342.	1.9	50
60	Environmental neurotoxins $\hat{2}$ -N-methylamino-l-alanine (BMAA) and mercury in shark cartilage dietary supplements. <i>Food and Chemical Toxicology</i> , 2014, 70, 26-32.	3.6	49
61	<i>PARK10</i> is a major locus for sporadic neuropathologically confirmed Parkinson disease. <i>Neurology</i> , 2015, 84, 972-980.	1.1	48
62	Ibogaine Detoxification Transitions Opioid and Cocaine Abusers Between Dependence and Abstinence: Clinical Observations and Treatment Outcomes. <i>Frontiers in Pharmacology</i> , 2018, 9, 529.	3.5	48
63	Noribogaine is a G-protein biased $\hat{2}$ -opioid receptor agonist. <i>Neuropharmacology</i> , 2015, 99, 675-688.	4.1	47
64	Galanin: Neurobiologic Mechanisms and Therapeutic Potential for Alzheimer's Disease. <i>CNS Neuroscience &amp; Therapeutics</i> , 2001, 7, 445-470.	4.0	45
65	l-Serine Reduces Spinal Cord Pathology in a Vervet Model of Preclinical ALS/MND. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 393-406.	1.7	42
66	Rarity of the Alzheimer Disease "Protective" <i>APP</i> A673T Variant in the United States. <i>JAMA Neurology</i> , 2015, 72, 209.	9.0	41
67	Alzheimer disease (AD) specific transcription, DNA methylation and splicing in twenty AD associated loci. <i>Molecular and Cellular Neurosciences</i> , 2015, 67, 37-45.	2.2	41
68	Gene Network Dysregulation in Dorsolateral Prefrontal Cortex Neurons of Humans with Cocaine Use Disorder. <i>Scientific Reports</i> , 2017, 7, 5412.	3.3	40
69	DNA Methylation Dynamics and Cocaine in the Brain: Progress and Prospects. <i>Genes</i> , 2017, 8, 138.	2.4	37
70	Cyanobacterial neurotoxin BMAA and brain pathology in stranded dolphins. <i>PLoS ONE</i> , 2019, 14, e0213346.	2.5	37
71	Reduced LRRK2 in association with retromer dysfunction in post-mortem brain tissue from LRRK2 mutation carriers. <i>Brain</i> , 2018, 141, 486-495.	7.6	36
72	Chapter 5 Comparative neuropharmacology of ibogaine and its O-desmethyl metabolite, noribogaine. <i>The Alkaloids Chemistry and Biology</i> , 2001, 56, 79-113.	2.0	33

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73	Norepinephrine transporter immunoblotting and radioligand binding in cocaine abusers. <i>Journal of Neuroscience Methods</i> , 2005, 143, 79-85.	2.5	33
74	Modified Ibogaine Fragments: Synthesis and Preliminary Pharmacological Characterization of 3-Ethyl-5-phenyl-1,2,3,4,5,6-hexahydroazepino[4,5-b]benzothiophenes. <i>Journal of Medicinal Chemistry</i> , 1998, 41, 4486-4491.	6.4	32
75	Alpha synuclein protein levels are increased in serum from recently abstinent cocaine abusers. <i>Drug and Alcohol Dependence</i> , 2008, 94, 246-250.	3.2	32
76	Excited Delirium and Sudden Death: A Syndromal Disorder at the Extreme End of the Neuropsychiatric Continuum. <i>Frontiers in Physiology</i> , 2016, 7, 435.	2.8	32
77	Cyanobacterial Neurotoxin BMAA and Mercury in Sharks. <i>Toxins</i> , 2016, 8, 238.	3.4	31
78	Altered Dopamine Synaptic Markers in Postmortem Brain of Obese Subjects. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 386.	2.0	31
79	The human brainome: network analysis identifies HSPA2 as a novel Alzheimer's disease target. <i>Brain</i> , 2018, 141, 2721-2739.	7.6	31
80	Deficient vesicular storage: A common theme in catecholaminergic neurodegeneration. <i>Parkinsonism and Related Disorders</i> , 2015, 21, 1013-1022.	2.2	30
81	Galanin Expression within the Basal Forebrain in Alzheimer's Disease: Comments on Therapeutic Potential. <i>Annals of the New York Academy of Sciences</i> , 1998, 863, 291-304.	3.8	29
82	RNA sequencing of transcriptomes in human brain regions: protein-coding and non-coding RNAs, isoforms and alleles. <i>BMC Genomics</i> , 2015, 16, 990.	2.8	28
83	Correlating Human and Animal Studies of Cocaine Abuse and Gene Expression. <i>Annals of the New York Academy of Sciences</i> , 2008, 1141, 58-75.	3.8	27
84	Noribogaine stimulates naloxone-sensitive [ <sup>35</sup> S]GTPγS binding. <i>NeuroReport</i> , 1998, 9, 109-114.	1.2	26
85	Determinants of denervation-independent depletion of putamen dopamine in Parkinson's disease and multiple system atrophy. <i>Parkinsonism and Related Disorders</i> , 2017, 35, 88-91.	2.2	26
86	RIG-1 receptor expression in the pathology of Alzheimer's disease. <i>Journal of Neuroinflammation</i> , 2014, 11, 67.	7.2	25
87	Absence of <i>C9ORF72</i> expanded or intermediate repeats in autopsy-confirmed Parkinson's disease. <i>Movement Disorders</i> , 2014, 29, 827-830.	3.9	24
88	Assessment of the Association of D2 Dopamine Receptor Gene and Reported Allele Frequencies With Alcohol Use Disorders. <i>JAMA Network Open</i> , 2019, 2, e1914940.	5.9	24
89	Oral noribogaine shows high brain uptake and anti-withdrawal effects not associated with place preference in rodents. <i>Journal of Psychopharmacology</i> , 2016, 30, 688-697.	4.0	23
90	21-Aminosteroids Interact with the Dopamine Transporter to Protect Against 1-Methyl-4-Phenylpyridinium-Induced Neurotoxicity. <i>Journal of Neurochemistry</i> , 1992, 58, 328-334.	3.9	20

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91	Norbogaine reduces nicotine self-administration in rats. <i>Journal of Psychopharmacology</i> , 2015, 29, 704-711.	4.0	20
92	Decreased vesicular storage and aldehyde dehydrogenase activity in multiple system atrophy. <i>Parkinsonism and Related Disorders</i> , 2015, 21, 567-572.	2.2	20
93	First-in-class thyrotropin-releasing hormone (TRH)-based compound binds to a pharmacologically distinct TRH receptor subtype in human brain and is effective in neurodegenerative models. <i>Neuropharmacology</i> , 2015, 89, 193-203.	4.1	18
94	Breaking the cycle of opioid use disorder with Ibogaine. <i>American Journal of Drug and Alcohol Abuse</i> , 2018, 44, 1-3.	2.1	18
95	Human Serotonin Transporter Coding Variation Establishes Conformational Bias with Functional Consequences. <i>ACS Chemical Neuroscience</i> , 2019, 10, 3249-3260.	3.5	17
96	Do vervets and macaques respond differently to BMAA?. <i>NeuroToxicology</i> , 2016, 57, 310-311.	3.0	15
97	Cocaine-related DNA methylation in caudate neurons alters 3D chromatin structure of the IRXA gene cluster. <i>Molecular Psychiatry</i> , 2021, 26, 3134-3151.	7.9	15
98	Evaluating the toxicity and therapeutic potential of ibogaine in the treatment of chronic opioid abuse. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2021, 17, 1019-1022.	3.3	13
99	BMAA, Methylmercury, and Mechanisms of Neurodegeneration in Dolphins: A Natural Model of Toxin Exposure. <i>Toxins</i> , 2021, 13, 697.	3.4	12
100	Reading <sc>LINE</sc>s within the cocaine addicted brain. <i>Brain and Behavior</i> , 2017, 7, e00678.	2.2	11
101	BisQC: an operational pipeline for multiplexed bisulfite sequencing. <i>BMC Genomics</i> , 2014, 15, 290.	2.8	10
102	Cocaine promotes primary human astrocyte proliferation via JNK-dependent up-regulation of cyclin A2. <i>Restorative Neurology and Neuroscience</i> , 2016, 34, 965-976.	0.7	10
103	EXCITATION study: Unexplained in-custody deaths: Evaluating biomarkers of stress and agitation. <i>Journal of Clinical Forensic and Legal Medicine</i> , 2019, 66, 100-106.	1.0	10
104	Methylation of the tyrosine hydroxylase gene is dysregulated by cocaine dependence in the human striatum. <i>IScience</i> , 2021, 24, 103169.	4.1	8
105	A Multicomponent Learning Model of Drug Abuse: Drug Taking and Craving May Involve Separate Brain Circuits Underlying Instrumental and Classical Conditioning, Respectively. <i>Annals of the New York Academy of Sciences</i> , 1999, 877, 811-819.	3.8	6
106	Generation of disease-specific autopsy-confirmed iPSCs lines from postmortem isolated Peripheral Blood Mononuclear Cells. <i>Neuroscience Letters</i> , 2017, 637, 201-206.	2.1	6
107	Making a family decision to donate the brain for genomic research: lessons from the genotype-tissue expression project (GTEx). <i>Cell and Tissue Banking</i> , 2021, 22, 431-441.	1.1	5
108	Ibogaine therapy for substance abuse disorders. , 0, , 50-60.		4

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109	A review of brain biorepository management and operations. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 150, 83-92.	1.8	4
110	Restriction Enzyme Based Enriched L1Hs Sequencing (REBELseq): A Scalable Technique for Detection of Ta Subfamily L1Hs in the Human Genome. G3: Genes, Genomes, Genetics, 2020, 10, 1647-1655.	1.8	4
111	Hypothesizing Las Vegas and Sutherland Springs Mass Shooters Suffer from Reward Deficiency Syndrome: "Born Bad", 2017, 03, 28-31.		4
112	CNVs in neurodevelopmental disorders. Oncotarget, 2015, 6, 18238-18239.	1.8	4
113	The neurochemical mechanism of rebound psychosis in Parkinson's disease. Movement Disorders, 2005, 20, 515-515.	3.9	2
114	Commentary on: Johnson MM, David JA, Michelhaugh SK, Schmidt CJ, Bannon MJ. Increased heat shock protein 70 gene expression in the brains of cocaine-related fatalities may be reflective of postdrug survival and intervention rather than excited delirium. J Forensic Sci 2012;57(6):1519-23. Journal of Forensic Sciences, 2013, 58, 559-561.	1.6	2
115	Reply to Knuijver et al. on the "Safety of ibogaine administration in detoxification of opioid-dependent individuals: a descriptive open-label observational study". Addiction, 2022, 117, 835-836.	3.3	2
116	Zhou et al. reply. Nature, 2009, 458, E7-E7.	27.8	1
117	Open Access: The Human Brainome: Human Brain Genome, Transcriptome, and Proteome Integration. Alzheimer's and Dementia, 2016, 12, P237.	0.8	1
118	Assessment of stress markers in restrained individuals following physical stress with and without sham CED activation. Journal of Clinical Forensic and Legal Medicine, 2020, 74, 101982.	1.0	1
119	F269. Mitochondrial Transcriptome and Epigenetic Changes in the Human Hippocampus Chronically Exposed to Cocaine. Biological Psychiatry, 2018, 83, S343-S344.	1.3	0
120	Noribogaine is a Mixed Agonist/Antagonist Opioid Ligand with Profound Functional Selectivity. FASEB Journal, 2015, 29, LB505.	0.5	0
121	Characterization of Noribogaine at nAChRs and Effect on Nicotine Self-Administration in Rats. FASEB Journal, 2015, 29, 1019.2.	0.5	0