Paul F Smith

List of Publications by Year
in descending order

132 papers	5,337 citations	126858 33 h-index	98753 67 g-index
137 all docs	137 docs citations	137 times ranked	2616 citing authors

#	Article	IF	Citations
1	Hearing loss versus vestibular loss as contributors to cognitive dysfunction. Journal of Neurology, 2022, 269, 87-99.	1.8	31
2	Why Should Constant Stimulation of Saccular Afferents Modify the Posture and Gait of Patients with Bilateral Vestibular Dysfunction? The Saccular Substitution Hypothesis. Journal of Clinical Medicine, 2022, 11, 1132.	1.0	4
3	Applications of Multivariate Statistical and Data Mining Analyses to the Search for Biomarkers of Sensorineural Hearing Loss, Tinnitus, and Vestibular Dysfunction. Frontiers in Neurology, 2021, 12, 627294.	1.1	5
4	Stratification of hippocampal electrophysiological activation evoked by selective electrical stimulation of different angular and linear acceleration sensors in the rat peripheral vestibular system. Hearing Research, 2021, 403, 108173.	0.9	7
5	Noisy Galvanic Vestibular Stimulation Combined With a Multisensory Balance Programâ€¯in Older Adults With Moderate to High Fall Risk: Protocol for a Feasibility Study for a Randomized Controlled Trial. JMIR Research Protocols, 2021, 10, e32085.	0.5	1
6	Metabolic changes in the brain and blood of rats following acoustic trauma, tinnitus and hyperacusis. Progress in Brain Research, 2021, 262, 399-430.	0.9	5
7	Frequency-Specific Effects of Galvanic Vestibular Stimulation on Response-Time Performance in Parkinson's Disease. Frontiers in Neurology, 2021, 12, 758122.	1.1	7
8	Vestibular impairment, cognitive decline and Alzheimerâ€™s disease: balancing the evidence. Aging and Mental Health, 2020, 24, 705-708.	1.5	54
9	Cerebellar transcranial direct current stimulation for learning a novel split-belt treadmill task: a randomised controlled trial. Scientific Reports, 2020, 10, 11853.	1.6	11
10	Why the cerebellar shutdown/clampdown hypothesis of vestibular compensation is inconsistent with neurophysiological evidence. Journal of Vestibular Research: Equilibrium and Orientation, 2020, 30, 295-303.	0.8	3
11	The effects of selective electrical stimulation of the rat cochlea on hippocampal field potentials. Hearing Research, 2020, 395, 108023.	0.9	5
12	Vestibular Modulation of Long-Term Potentiation and NMDA Receptor Expression in the Hippocampus. Frontiers in Molecular Neuroscience, 2020, 13, 140.	1.4	4
13	Vestibular function and cortical and sub-cortical alterations in an aging population. Heliyon, 2020, 6, e04728.	1.4	20
14	Vestibular Compensation as a Distributed Process. , 2020, , 609-625.		2
15	Pharmacological Evaluation of Drugs in Animal Models of Tinnitus. Current Topics in Behavioral Neurosciences, 2020, 51, 51-82.	0.8	2
16	Why dizziness is likely to increase the risk of cognitive dysfunction and dementia in elderly adults. New Zealand Medical Journal, 2020, 133, 112-127.	0.5	11
17	The Growing Evidence for the Importance of the Otoliths in Spatial Memory. Frontiers in Neural Circuits, 2019, 13, 66.	1.4	24
18	New software dedicated to virtual mazes for human cognitive investigations. Journal of Neuroscience Methods, 2019, 327, 108388.	1.3	8

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19	The critical role of vestibular graviception during cognitive-motor development. Behavioural Brain Research, 2019, 372, 112040.	1.2	9
20	Sexual dimorphism in vestibular function and dysfunction. Journal of Neurophysiology, 2019, 121, 2379-2391.	0.9	34
21	Cannabinoid drugs: will they relieve or exacerbate tinnitus?. Current Opinion in Neurology, 2019, 32, 131-136.	1.8	15
22	Reply to Micarelli etÂal. Commentary on The Balance of Sleep: Role of the Vestibular Sensory System. Sleep Medicine Reviews, 2019, 44, 87-88.	3.8	2
23	A multivariate statistical analysis of the effects of styrene maleic acid encapsulated RL71 in a xenograft model of triple negative breast cancer. Journal of Biological Methods, 2019, 6, e121.	1.0	2
24	Effects of electrical stimulation of the rat vestibular labyrinth on c-Fos expression in the hippocampus. Neuroscience Letters, 2018, 677, 60-64.	1.0	9
25	Flow cytometry for receptor analysis from ex-vivo brain tissue in adult rat. Journal of Neuroscience Methods, 2018, 304, 11-23.	1.3	6
26	The modulation of hippocampal theta rhythm by the vestibular system. Journal of Neurophysiology, 2018, 119, 548-562.	0.9	30
27	Vestibular Functions and Parkinson's Disease. Frontiers in Neurology, 2018, 9, 1085.	1.1	55
28	The effects of electrical stimulation of the peripheral vestibular system on neurochemical release in the rat striatum. PLoS ONE, 2018, 13, e0205869.	1.1	13
29	Vestibular-related eye movements in the rat following selective electrical stimulation of the vestibular sensors. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2018, 204, 835-847.	0.7	5
30	The balance of sleep: Role of the vestibular sensory system. Sleep Medicine Reviews, 2018, 42, 220-228.	3.8	53
31	Differential regulation of NMDA receptor-expressing neurons in the rat hippocampus and striatum following bilateral vestibular loss demonstrated using flow cytometry. Neuroscience Letters, 2018, 683, 43-47.	1.0	7
32	Single neuron activity and c-Fos expression in the rat striatum following electrical stimulation of the peripheral vestibular system. Physiological Reports, 2018, 6, e13791.	0.7	13
33	On the Application of Multivariate Statistical and Data Mining Analyses to Data in Neuroscience. Journal of Undergraduate Neuroscience Education: JUNE: A Publication of FUN, Faculty for Undergraduate Neuroscience, 2018, 16, R20-R32.	0.6	3
34	What vestibular tests to choose in symptomatic patients after a cochlear implant? A systematic review and meta-analysis. European Archives of Oto-Rhino-Laryngology, 2017, 274, 53-63.	0.8	36
35	Effects of bilateral vestibular deafferentation in rat on hippocampal theta response to somatosensory stimulation, acetylcholine release, and cholinergic neurons in the pedunculopontine tegmental nucleus. Brain Structure and Function, 2017, 222, 3319-3332.	1.2	18
36	The vestibular system and cognition. Current Opinion in Neurology, 2017, 30, 84-89.	1.8	118

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37	Is hippocampal neurogenesis modulated by the sensation of self-motion encoded by the vestibular system?. Neuroscience and Biobehavioral Reviews, 2017, 83, 489-495.	2.9	15
38	Effects of acute altered gravity during parabolic flight and/or vestibular loss on cell proliferation in the rat dentate gyrus. Neuroscience Letters, 2017, 654, 120-124.	1.0	4
39	Ethovisionâ„¢ analysis of open field behaviour in rats following bilateral vestibular loss. Journal of Vestibular Research: Equilibrium and Orientation, 2017, 27, 89-101.	0.8	16
40	A Guerilla Guide to Common Problems in 'Neurostatistics': Essential Statistical Topics in Neuroscience. Journal of Undergraduate Neuroscience Education: JUNE: A Publication of FUN, Faculty for Undergraduate Neuroscience, 2017, 16, R1-R12.	0.6	8
41	Bionic balance organs: progress in the development of vestibular prostheses. New Zealand Medical Journal, 2017, 130, 56-65.	0.5	1
42	Age-Related Neurochemical Changes in the Vestibular Nuclei. Frontiers in Neurology, 2016, 7, 20.	1.1	28
43	Anatomy and surgical approach of ratâ€™s vestibular sensors and nerves. Journal of Neuroscience Methods, 2016, 270, 1-8.	1.3	13
44	Video head impulse in comparison to caloric testing in unilateral vestibular schwannoma. Acta Oto-Laryngologica, 2016, 136, 1110-1114.	0.3	32
45	Hippocampal and striatal M₁â€muscarinic acetylcholine receptors are downâ€regulated following bilateral vestibular loss in rats. Hippocampus, 2016, 26, 1509-1514.	0.9	21
46	Compositional data in neuroscience: If youâ€™ve got it, log it!. Journal of Neuroscience Methods, 2016, 271, 154-159.	1.3	11
47	Basal dendritic length is reduced in the rat hippocampus following bilateral vestibular deafferentation. Neurobiology of Learning and Memory, 2016, 131, 56-60.	1.0	15
48	Cannabinoids, cannabinoid receptors and tinnitus. Hearing Research, 2016, 332, 210-216.	0.9	18
49	Cannabinoid CB1 Receptor Agonists Do Not Decrease, but may Increase Acoustic Trauma-Induced Tinnitus in Rats. Frontiers in Neurology, 2015, 6, 60.	1.1	27
50	Editorial: The Vestibular System in Cognitive and Memory Processes in Mammalians. Frontiers in Integrative Neuroscience, 2015, 9, 55.	1.0	45
51	The vestibularâ€“basal ganglia connection: Balancing motor control. Brain Research, 2015, 1597, 180-188.	1.1	73
52	Glutamic acid decarboxylase levels in the cochlear nucleus of rats with acoustic trauma-induced chronic tinnitus. Neuroscience Letters, 2015, 586, 60-64.	1.0	10
53	The anti-inflammatory selective melanocortin receptor subtype 4 agonist, RO27-3225, fails to prevent acoustic trauma-induced tinnitus in rats. European Journal of Pharmacology, 2015, 761, 206-210.	1.7	7
54	Cell proliferation in the cochlear nucleus following acoustic trauma in rat. Neuroscience, 2015, 303, 524-534.	1.1	6

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55	The Effects of Acute Stress-Induced Sleep Disturbance on Acoustic Trauma-Induced Tinnitus in Rats. BioMed Research International, 2014, 2014, 1-8.	0.9	7
56	Galvanic vestibular stimulation impairs cell proliferation and neurogenesis in the rat hippocampus but not spatial memory. Hippocampus, 2014, 24, 541-552.	0.9	17
57	Effects of early and late treatment with l-baclofen on the development and maintenance of tinnitus caused by acoustic trauma in rats. Neuroscience, 2014, 258, 410-421.	1.1	19
58	Vestibular pathways involved in cognition. Frontiers in Integrative Neuroscience, 2014, 8, 59.	1.0	239
59	A comparison of random forest regression and multiple linear regression for prediction in neuroscience. Journal of Neuroscience Methods, 2013, 220, 85-91.	1.3	151
60	Principal component analysis suggests subtle changes in glutamate receptor subunit expression in the rat hippocampus following bilateral vestibular deafferentation. Neuroscience Letters, 2013, 548, 265-268.	1.0	7
61	A multivariate statistical and data mining analysis of spatial memory-related behaviour following bilateral vestibular loss in the rat. Behavioural Brain Research, 2013, 246, 15-23.	1.2	15
62	Glutamate Receptor Subunit and Calmodulin Kinase II Expression, with and without T Maze Training, in the Rat Hippocampus following Bilateral Vestibular Deafferentation. PLoS ONE, 2013, 8, e54527.	1.1	19
63	Personality changes in patients with vestibular dysfunction. Frontiers in Human Neuroscience, 2013, 7, 678.	1.0	43
64	From ear to uncertainty: vestibular contributions to cognitive function. Frontiers in Integrative Neuroscience, 2013, 7, 84.	1.0	99
65	A note on the advantages of using linear mixed model analysis with maximal likelihood estimation over repeated measures ANOVAs in psychopharmacology: comment on Clark et al. (2012). Journal of Psychopharmacology, 2012, 26, 1605-1607.	2.0	21
66	A doseâ€“response analysis of the effects of L-baclofen on chronic tinnitus caused by acoustic trauma in rats. Neuropharmacology, 2012, 62, 940-946.	2.0	34
67	Influence of anxiety in spatial memory impairments related to the loss of vestibular function in rat. Neuroscience, 2012, 218, 161-169.	1.1	23
68	The D2 dopamine receptor and locomotor hyperactivity following bilateral vestibular deafferentation in the rat. Behavioural Brain Research, 2012, 227, 150-158.	1.2	32
69	Performance in anxiety and spatial memory tests following bilateral vestibular loss in the rat and effects of anxiolytic and anxiogenic drugs. Behavioural Brain Research, 2012, 235, 21-29.	1.2	18
70	Interactions between the vestibular nucleus and the dorsal cochlear nucleus: Implications for tinnitus. Hearing Research, 2012, 292, 80-82.	0.9	15
71	Dyscalculia and vestibular function. Medical Hypotheses, 2012, 79, 493-496.	0.8	17
72	The Effects of Bilateral Vestibular Loss on Hippocampal Volume, Neuronal Number, and Cell Proliferation in Rats. Frontiers in Neurology, 2012, 3, 20.	1.1	24

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73	Revisiting Baclofen for the Treatment of Severe Chronic Tinnitus. Frontiers in Neurology, 2012, 3, 34.	1.1	11
74	Septal elicitation of hippocampal theta rhythm did not repair cognitive and emotional deficits resulting from vestibular lesions. Hippocampus, 2012, 22, 1176-1187.	0.9	24
75	Acoustic trauma that can cause tinnitus impairs impulsive control but not performance accuracy in the 5-choice serial reaction time task in rats. Neuroscience, 2011, 180, 75-84.	1.1	30
76	The effects of acoustic trauma that can cause tinnitus on spatial performance in rats. Neuroscience, 2011, 186, 48-56.	1.1	34
77	The effects of chronic tinnitus caused by acoustic trauma on social behaviour and anxiety in rats. Neuroscience, 2011, 193, 143-153.	1.1	34
78	Effects of the Putative Cognitive-Enhancing Ampakine, CX717, on Attention and Object Recognition Memory. Current Alzheimer Research, 2011, 8, 876-882.	0.7	18
79	Move it or lose itâ€"Is stimulation of the vestibular system necessary for normal spatial memory?. Hippocampus, 2010, 20, 36-43.	0.9	81
80	Hippocampal synaptic transmission and LTP in vivo are intact following bilateral vestibular deafferentation in the rat. Hippocampus, 2010, 20, 461-468.	0.9	17
81	A possible explanation for dizziness following SSRI discontinuation. Acta Oto-Laryngologica, 2010, 130, 981-983.	0.3	13
82	Evidence that spatial memory deficits following bilateral vestibular deafferentation in rats are probably permanent. Neurobiology of Learning and Memory, 2010, 94, 402-413.	1.0	91
83	Longâ€term deficits on a foraging task after bilateral vestibular deafferentation in rats. Hippocampus, 2009, 19, 480-486.	0.9	62
84	Balance before Reason in Rats and Humans. Annals of the New York Academy of Sciences, 2009, 1164, 127-133.	1.8	17
85	Bilateral vestibular deafferentation causes deficits in a 5-choice serial reaction time task in rats. Behavioural Brain Research, 2009, 203, 113-117.	1.2	23
86	Synaptic protein expression in the medial temporal lobe and frontal cortex following chronic bilateral vestibular loss. Hippocampus, 2008, 18, 440-444.	0.9	14
87	Monoamine transporter and enzyme expression in the medial temporal lobe and frontal cortex following chronic bilateral vestibular loss. Neuroscience Letters, 2008, 437, 107-110.	1.0	22
88	Locomotor and exploratory behavior in the rat following bilateral vestibular deafferentation.. Behavioral Neuroscience, 2008, 122, 448-459.	0.6	49
89	Inflammation in Parkinson's disease: an update. Current Opinion in Investigational Drugs, 2008, 9, 478-84.	2.3	20
90	Symptomatic treatment of multiple sclerosis using cannabinoids: recent advances. Expert Review of Neurotherapeutics, 2007, 7, 1157-1163.	1.4	19

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91	Bilateral vestibular deafferentation impairs performance in a spatial forced alternation task in rats. Hippocampus, 2007, 17, 253-256.	0.9	48
92	Lesions of the Vestibular System Disrupt Hippocampal Theta Rhythm in the Rat. Journal of Neurophysiology, 2006, 96, 4-14.	0.9	109
93	Impairment and recovery on a food foraging task following unilateral vestibular deafferentation in rats. Hippocampus, 2006, 16, 368-378.	0.9	71
94	The Endocannabinoid System: A New Player in the Neurochemical Control of Vestibular Function?. Audiology and Neuro-Otology, 2006, 11, 207-212.	0.6	8
95	The safety of cannabinoids for the treatment of multiple sclerosis. Expert Opinion on Drug Safety, 2005, 4, 443-456.	1.0	8
96	Vestibular loss causes hippocampal atrophy and impaired spatial memory in humans. Brain, 2005, 128, 2732-2741.	3.7	518
97	Ginkgo biloba extracts for tinnitus: More hype than hope?. Journal of Ethnopharmacology, 2005, 100, 95-99.	2.0	18
98	The effects of vestibular lesions on hippocampal function in rats. Progress in Neurobiology, 2005, 75, 391-405.	2.8	85
99	Does vestibular damage cause cognitive dysfunction in humans?. Journal of Vestibular Research: Equilibrium and Orientation, 2005, 15, 1-9.	0.8	99
100	Does vestibular damage cause cognitive dysfunction in humans?. Journal of Vestibular Research: Equilibrium and Orientation, 2005, 15, 1-9.	0.8	42
101	Cannabinoids as potential anti-epileptic drugs. Current Opinion in Investigational Drugs, 2005, 6, 680-5.	2.3	17
102	Drug treatments for subjective tinnitus: serendipitous discovery versus rational drug design. Current Opinion in Investigational Drugs, 2005, 6, 712-6.	2.3	3
103	Vestibular influences on CA1 neurons in the rat hippocampus: an electrophysiological study in vivo. Experimental Brain Research, 2004, 155, 245-250.	0.7	71
104	Bilateral labyrinthectomy causes long-term deficit in object recognition in rat. NeuroReport, 2004, 15, 1913-1916.	0.6	38
105	Nitric oxide synthase and arginase expression changes in the rat perirhinal and entorhinal cortices following unilateral vestibular damage: A link to deficits in object recognition?. Journal of Vestibular Research: Equilibrium and Orientation, 2004, 14, 411-417.	0.8	12
106	Medicinal cannabis extracts for the treatment of multiple sclerosis. Current Opinion in Investigational Drugs, 2004, 5, 727-30.	2.3	11
107	GW-1000. GW Pharmaceuticals. Current Opinion in Investigational Drugs, 2004, 5, 748-54.	2.3	10
108	Unilateral inner ear damage results in lasting changes in hippocampal CA1 field potentials in vitro. Hippocampus, 2003, 13, 873-878.	0.9	38

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109	Long-term changes in hippocampal n-methyl-d-aspartate receptor subunits following unilateral vestibular damage in rat. Neuroscience, 2003, 117, 965-970.	1.1	51
110	Cannabinoids for the treatment of multiple sclerosis: no smoke without fire?. Expert Review of Neurotherapeutics, 2003, 3, 327-334.	1.4	3
111	Long-Term Effects of Permanent Vestibular Lesions on Hippocampal Spatial Firing. Journal of Neuroscience, 2003, 23, 6490-6498.	1.7	174
112	Bilateral peripheral vestibular lesions produce long-term changes in spatial learning in the rat. Journal of Vestibular Research: Equilibrium and Orientation, 2003, 13, 9-16.	0.8	82
113	Therapeutic N-methyl-D-aspartate receptor antagonists: will reality meet expectation?. Current Opinion in Investigational Drugs, 2003, 4, 826-32.	2.3	15
114	Bilateral peripheral vestibular lesions produce long-term changes in spatial learning in the rat. Journal of Vestibular Research: Equilibrium and Orientation, 2003, 13, 9-16.	0.8	32
115	Neuroprotection against hypoxia-ischemia by insulin-like growth factor-I (IGF-I). IDrugs: the Investigational Drugs Journal, 2003, 6, 1173-7.	0.7	11
116	Cannabinoids in the treatment of pain and spasticity in multiple sclerosis. Current Opinion in Investigational Drugs, 2002, 3, 859-64.	2.3	18
117	Effects of c-Fos antisense and mis-sense oligonucleotides on Fos expression in the vestibular nucleus and vestibular compensation following unilateral labyrinthectomy. Neuroscience Research Communications, 2000, 26, 123-128.	0.2	0
118	A neuroscientist looks at philosophy: Response to Beedle (1999). , 2000, 60, 281-283.		0
119	Subregional variation in the effects of unilateral vestibular deafferentation on nitric oxide synthase activity and nitrite formation in the guinea pig hippocampus. Neuroscience Research Communications, 2000, 27, 109-116.	0.2	4
120	Effects of intra-vestibular nucleus injection of the Group I metabotropic glutamate receptor antagonist AIDA on vestibular compensation in guinea pigs. Experimental Brain Research, 2000, 134, 74-80.	0.7	8
121	Are vestibular hair cells excited to death by aminoglycoside antibiotics?. Journal of Vestibular Research: Equilibrium and Orientation, 2000, 10, 1-5.	0.8	8
122	The effects of repeated optokinetic stimulation on human autonomic function. Journal of Vestibular Research: Equilibrium and Orientation, 2000, 10, 139-142.	0.8	5
123	Evidence that the ginkgo biloba extract, EGb 761, neither accelerates nor enhances the rapid compensation of the static symptoms of unilateral vestibular deafferentation in guinea pig. Journal of Vestibular Research: Equilibrium and Orientation, 1999, 9, 111-118.	0.8	5
124	Further evidence for age-related deficits in human postural function. Journal of Vestibular Research: Equilibrium and Orientation, 1999, 9, 261-264.	0.8	47
125	Subregional analysis of amino acid levels in the guinea pig hippocampus following unilateral vestibular deafferentation. Journal of Vestibular Research: Equilibrium and Orientation, 1999, 9, 335-345.	0.8	10
126	Vestibular-hippocampal interactions. , 1997, 7, 465-471.		130

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127	Tolerance to the ataxic effects of diazepam in guinea pig is not associated with a reduced sensitivity of GABAA receptors in the vestibular nucleus. European Journal of Pharmacology, 1996, 301, 83-90.	1.7	3
128	Early Diazepam Treatment Following Unilateral Labyrinthectomy Does Not Impair Vestibular Compensation of Spontaneous Nystagmus in Guinea Pig*. Journal of Vestibular Research: Equilibrium and Orientation, 1996, 6, 135-139.	0.8	12
129	The Recovery of Static Vestibular Function Following Peripheral Vestibular Lesions in Mammals: The Intrinsic Mechanism Hypothesis. Journal of Vestibular Research: Equilibrium and Orientation, 1996, 6, 185-201.	0.8	13
130	Mechanisms of recovery following unilateral labyrinthectomy: a review. Brain Research Reviews, 1989, 14, 155-180.	9.1	581
131	Neuronal activity in the contralateral medial vestibular nucleus of the guinea pig following unilateral labyrinthectomy. Brain Research, 1988, 444, 295-307.	1.1	230
132	Neuronal activity in the ipsilateral medial vestibular nucleus of the guinea pig following unilateral labyrinthectomy. Brain Research, 1988, 444, 308-319.	1.1	300