

Elvire Vaucher

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,893
citations

304743

22
h-index

289244

40
g-index

70
all docs

70
docs citations

70
times ranked

2339
citing authors

#	ARTICLE	IF	CITATIONS
1	Cholinergic basal forebrain neurons project to cortical microvessels in the rat: electron microscopic study with anterogradely transported Phaseolus vulgaris leucoagglutinin and choline acetyltransferase immunocytochemistry. <i>Journal of Neuroscience</i> , 1995, 15, 7427-7441.	3.6	185
2	Specific Subtypes of Cortical GABA Interneurons Contribute to the Neurovascular Coupling Response to Basal Forebrain Stimulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 221-231.	4.3	134
3	Activation of the mouse primary visual cortex by medial prefrontal subregion stimulation is not mediated by cholinergic basalo-cortical projections. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 1.	2.5	115
4	GABA neurons provide a rich input to microvessels but not nitric oxide neurons in the rat cerebral cortex: A means for direct regulation of local cerebral blood flow. <i>Journal of Comparative Neurology</i> , 2000, 421, 161-171.	1.6	105
5	Estrogen effects on object memory and cholinergic receptors in young and old female mice. <i>Neurobiology of Aging</i> , 2002, 23, 87-95.	3.1	88
6	Cholinergic basal forebrain projections to nitric oxide synthase-containing neurons in the rat cerebral cortex. <i>Neuroscience</i> , 1997, 79, 827-836.	2.3	76
7	Postmenopausal Hormone Therapy Increases Retinal Blood Flow and Protects the Retinal Nerve Fiber Layer. , 2010, 51, 2587.		74
8	Boosting visual cortex function and plasticity with acetylcholine to enhance visual perception. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 172.	2.5	65
9	Ocular Application of the Kinin B1 Receptor Antagonist LF22-0542 Inhibits Retinal Inflammation and Oxidative Stress in Streptozotocin-Diabetic Rats. <i>PLoS ONE</i> , 2012, 7, e33864.	2.5	55
10	Acetylcholine release is elicited in the visual cortex, but not in the prefrontal cortex, by patterned visual stimulation: A dual in vivo microdialysis study with functional correlates in the rat brain. <i>Neuroscience</i> , 2005, 132, 501-510.	2.3	53
11	Acetylcholinesterase Inhibition Promotes Retinal Vasoprotection and Increases Ocular Blood Flow in Experimental Glaucoma. , 2013, 54, 3171.		52
12	Confocal analysis of cholinergic and dopaminergic inputs onto pyramidal cells in the prefrontal cortex of rodents. <i>Frontiers in Neuroanatomy</i> , 2010, 4, 21.	1.7	48
13	p75 Neurotrophin Receptor Activation Regulates the Timing of the Maturation of Cortical Parvalbumin Interneuron Connectivity and Promotes Juvenile-like Plasticity in Adult Visual Cortex. <i>Journal of Neuroscience</i> , 2019, 39, 4489-4510.	3.6	48
14	Cholinergic Pairing with Visual Activation Results in Long-Term Enhancement of Visual Evoked Potentials. <i>PLoS ONE</i> , 2009, 4, e5995.	2.5	48
15	Amyloid β peptide levels and its effects on hippocampal acetylcholine release in aged, cognitively-impaired and -unimpaired rats. <i>Journal of Chemical Neuroanatomy</i> , 2001, 21, 323-329.	2.1	47
16	Autoradiographic Evidence for Flow-Metabolism Uncoupling During Stimulation of the Nucleus Basalis of Meynert in the Conscious Rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1997, 17, 686-694.	4.3	44
17	The Effect of Intravitreal Injection of Bevacizumab on Retinal Circulation in Patients with Neovascular Macular Degeneration. , 2011, 52, 7400.		38
18	Visual training paired with electrical stimulation of the basal forebrain improves orientation-selective visual acuity in the rat. <i>Brain Structure and Function</i> , 2014, 219, 1493-1507.	2.3	34

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19	Neuromodulatory role of acetylcholine in visually-induced cortical activation: Behavioral and neuroanatomical correlates. <i>Neuroscience</i> , 2008, 154, 1607-1618.	2.3	32
20	Distribution and effects of the muscarinic receptor subtypes in the primary visual cortex. <i>Frontiers in Synaptic Neuroscience</i> , 2015, 7, 10.	2.5	32
21	Autoradiographic distribution of cerebral blood flow increases elicited by stimulation of the nucleus basalis magnocellularis in the unanesthetized rat. <i>Brain Research</i> , 1995, 691, 57-68.	2.2	31
22	Reduced Cortical Vasodilatory Response to Stimulation of the Nucleus Basalis of Meynert in the Aged Rat and Evidence for a Control of the Cerebral Circulation. <i>Annals of the New York Academy of Sciences</i> , 1997, 826, 410-415.	3.8	30
23	The Kallikrein-Kinin System in Diabetic Retinopathy. , 2014, 69, 111-143.		29
24	Object Recognition Memory and Cholinergic Parameters in Mice Expressing Human Presenilin 1 Transgenes. <i>Experimental Neurology</i> , 2002, 175, 398-406.	4.1	28
25	Topographic Organization of Cholinergic Innervation From the Basal Forebrain to the Visual Cortex in the Rat. <i>Frontiers in Neural Circuits</i> , 2018, 12, 19.	2.8	25
26	Modulation of retinal blood flow by kinin B1 receptor in Streptozotocin-diabetic rats. <i>Experimental Eye Research</i> , 2011, 92, 482-489.	2.6	24
27	Cholinergic Potentiation Alters Perceptual Eye Dominance Plasticity Induced by a Few Hours of Monocular Patching in Adults. <i>Frontiers in Neuroscience</i> , 2019, 13, 22.	2.8	24
28	Axonal Varicosity Density as an Index of Local Neuronal Interactions. <i>PLoS ONE</i> , 2011, 6, e22543.	2.5	23
29	Cholinergic depletion in nucleus accumbens impairs mesocortical dopamine activation and cognitive function in rats. <i>Neuropharmacology</i> , 2012, 63, 1075-1084.	4.1	21
30	Impaired functional organization in the visual cortex of muscarinic receptor knock-out mice. <i>NeuroImage</i> , 2014, 98, 233-242.	4.2	20
31	Lymphocytic Microparticles Modulate Angiogenic Properties of Macrophages in Laser-induced Choroidal Neovascularization. <i>Scientific Reports</i> , 2016, 6, 37391.	3.3	20
32	Cholinergic Potentiation Improves Perceptual-Cognitive Training of Healthy Young Adults in Three Dimensional Multiple Object Tracking. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 128.	2.0	20
33	Diabetes-Induced Inflammation and Vascular Alterations in the Gotoâ€“Kakizaki Rat Retina. <i>Current Eye Research</i> , 2020, 45, 965-974.	1.5	20
34	Bradykinin Type 1 Receptor â€“ Inducible Nitric Oxide Synthase: A New Axis Implicated in Diabetic Retinopathy. <i>Frontiers in Pharmacology</i> , 2019, 10, 300.	3.5	19
35	The effects of antiâ€“VEGF and kinin B₁ receptor blockade on retinal inflammation in laserâ€“induced choroidal neovascularization. <i>British Journal of Pharmacology</i> , 2020, 177, 1949-1966.	5.4	19
36	The Cerebrovascular Effects of Physostigmine Are Not Mediated through the Substantia Innominata. <i>Experimental Neurology</i> , 1993, 122, 319-326.	4.1	16

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37	Dose-dependent effect of donepezil administration on long-term enhancement of visually evoked potentials and cholinergic receptor overexpression in rat visual cortex. <i>Journal of Physiology (Paris)</i> , 2016, 110, 65-74.	2.1	16
38	Quantitative and regional measurement of retinal blood flow in rats using N-isopropyl-p-[14C]-iodoamphetamine ([14C]-IMP). <i>Experimental Eye Research</i> , 2009, 89, 960-966.	2.6	14
39	Cholinergic Potentiation of Restoration of Visual Function after Optic Nerve Damage in Rats. <i>Neural Plasticity</i> , 2017, 2017, 1-10.	2.2	13
40	Pharmacological Mechanisms of Cortical Enhancement Induced by the Repetitive Pairing of Visual/Cholinergic Stimulation. <i>PLoS ONE</i> , 2015, 10, e0141663.	2.5	13
41	Autoradiographic study of the cerebrovascular effects of stimulation of the substantia innominata: convenient stimulation paradigm. <i>Journal of the Autonomic Nervous System</i> , 1994, 49, 43-47.	1.9	12
42	Expression, distribution and function of kinin B ₁ receptor in the rat diabetic retina. <i>British Journal of Pharmacology</i> , 2018, 175, 968-983.	5.4	12
43	Kinins and Their Receptors as Potential Therapeutic Targets in Retinal Pathologies. <i>Cells</i> , 2021, 10, 1913.	4.1	12
44	Neuronal messengers as mediators of microvascular tone in the cerebral cortex. <i>International Congress Series</i> , 2002, 1235, 267-276.	0.2	9
45	Cholinergic Modulation of Binocular Vision. <i>Journal of Neuroscience</i> , 2020, 40, 5208-5213.	3.6	9
46	Assessment of Retinal and Choroidal Blood Flow Changes Using Laser Doppler Flowmetry in Rats. <i>Current Eye Research</i> , 2013, 38, 158-167.	1.5	8
47	Cholinergic potentiation of visual perception and vision restoration in rodents and humans. <i>Restorative Neurology and Neuroscience</i> , 2019, 37, 553-569.	0.7	8
48	Ovariectomy up-regulates neuronal neurofilament light chain mRNA expression with regional and temporal specificity. <i>Neuroscience</i> , 2001, 103, 629-637.	2.3	6
49	Differential Expression of Kinin Receptors in Human Wet and Dry Age-Related Macular Degeneration Retinae. <i>Pharmaceuticals</i> , 2020, 13, 130.	3.8	5
50	Modulation of Retinal Blood Flow in Type 1 Diabetic Rats by Kinins B ₁ Receptor.. <i>Canadian Journal of Diabetes</i> , 2008, 32, 333.	0.8	3
51	Author Response: Eu-estrogenemia and Retinal Blood Flow. , 2010, 51, 6902.		3
52	Mesoscopic cortical network reorganization during recovery of optic nerve injury in GCaMP6s mice. <i>Scientific Reports</i> , 2020, 10, 21472.	3.3	2
53	Mesoscopic Mapping of Stimulus-Selective Response Plasticity in the Visual Pathways Modulated by the Cholinergic System. <i>Frontiers in Neural Circuits</i> , 2020, 14, 38.	2.8	2
54	Cholinergic influences on vision. <i>Journal of Physiology (Paris)</i> , 2016, 110, 1-2.	2.1	1

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55	Chemical or electrical stimulation of basal forebrain neurons activates specific subsets of cortical GABA-interneurons in parallel with increases in cortical cerebral blood flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S159-S159.	4.3	1
56	Regulation of the expression of the cholinergic receptors in the visual cortex following long-term enhancement of visual cortical activity by cholinergic stimulation. <i>Journal of Vision</i> , 2015, 15, 30.	0.3	1
57	Stimulation of Acetylcholine Release and Pharmacological Potentiation of Cholinergic Transmission Affect Cholinergic Receptor Expression Differently during Visual Conditioning. <i>Neuroscience</i> , 2018, 386, 79-90.	2.3	0
58	AB016. Cholinergic enhancement reduces the temporary shift in perceptual eye dominance induced by a few hours of monocular occlusion. <i>Annals of Eye Science</i> , 2019, 4, AB016-AB016.	2.1	0
59	Vision Augmentation by Pharmacological Enhancement of the Visual Experience. <i>Contemporary Clinical Neuroscience</i> , 2021, , 639-659.	0.3	0
60	Pattern visual stimulation elicits cortical acetylcholine release with regional specificity in the anesthetized rat. <i>Journal of Vision</i> , 2010, 3, 473-473.	0.3	0
61	Does donepezil improve visual stimuli detection and perceptivo-cognitive performance of healthy young adults ?. <i>Journal of Vision</i> , 2015, 15, 1133.	0.3	0
62	AB029. The role of inducible nitric oxide synthase in deleterious effects of Kinin B1 receptor in diabetic retinopathy. <i>Annals of Eye Science</i> , 0, 3, AB029-AB029.	2.1	0
63	AB021. The effect of anti-VEGF on retinal inflammation and its relationship with the Kinin system in a rat model of laser-induced choroidal neovascularization. <i>Annals of Eye Science</i> , 0, 3, AB021-AB021.	2.1	0
64	AB058. A longitudinal study on the effects of the optic nerve crush on behavioural visual acuity measures in mice. <i>Annals of Eye Science</i> , 0, 3, AB058-AB058.	2.1	0
65	AB067. Cholinergic enhancement of short-term patching in healthy adults. <i>Annals of Eye Science</i> , 0, 3, AB067-AB067.	2.1	0
66	Cortical reorganization but no recovery of visual function following an optic nerve injury in mice. <i>Journal of Vision</i> , 2018, 18, 769.	0.3	0
67	AB006. Longitudinal effects of an optic nerve injury on behavioural measures of visual functions. <i>Annals of Eye Science</i> , 0, 4, AB006-AB006.	2.1	0
68	AB010. The effect of visual conditioning on cortical map plasticity: a wide-field calcium imaging study. <i>Annals of Eye Science</i> , 0, 4, AB010-AB010.	2.1	0