

Isabelle Aubert

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/78461/publications.pdf>

Version: 2024-02-01

86
papers

5,506
citations

117571

34
h-index

85498

71
g-index

89
all docs

89
docs citations

89
times ranked

5036
citing authors

#	ARTICLE	IF	CITATIONS
1	MORPHIOUS: an unsupervised machine learning workflow to detect the activation of microglia and astrocytes. <i>Journal of Neuroinflammation</i> , 2022, 19, 24.	3.1	5
2	Breached Barriers: A Scoping Review of Blood-Central Nervous System Barrier Pathology in Amyotrophic Lateral Sclerosis. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, 851563.	1.8	11
3	Ultrasound delivery of a TrkA agonist confers neuroprotection to Alzheimer-associated pathologies. <i>Brain</i> , 2022, 145, 2806-2822.	3.7	18
4	Intravenous and Non-invasive Drug Delivery to the Mouse Basal Forebrain Using MRI-guided Focused Ultrasound. <i>Bio-protocol</i> , 2021, 11, e4056.	0.2	3
5	The therapeutic potential of nerve growth factor combined with blood-brain barrier modulation by focused ultrasound for neurodegenerative disorders. <i>Neural Regeneration Research</i> , 2021, 16, 1783.	1.6	4
6	Vasculotide restores the blood-brain barrier after focused ultrasound-induced permeability in a mouse model of Alzheimer's disease. <i>International Journal of Medical Sciences</i> , 2021, 18, 482-493.	1.1	12
7	MR-guided focused ultrasound liquid biopsy enriches circulating biomarkers in patients with brain tumors. <i>Neuro-Oncology</i> , 2021, 23, 1789-1797.	0.6	59
8	Systemic AAV6-synapsin-GFP administration results in lower liver biodistribution, compared to AAV1&2 and AAV9, with neuronal expression following ultrasound-mediated brain delivery. <i>Scientific Reports</i> , 2021, 11, 1934.	1.6	12
9	Viral alpha-synuclein knockdown prevents spreading synucleinopathy. <i>Brain Communications</i> , 2021, 3, fcab247.	1.5	5
10	Transgene distribution and immune response after ultrasound delivery of rAAV9 and PHP.B to the brain in a mouse model of amyloidosis. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021, 23, 390-405.	1.8	13
11	The effects of voluntary running on cerebrovascular morphology and spatial short-term memory in a mouse model of amyloidosis. <i>NeuroImage</i> , 2020, 222, 117269.	2.1	6
12	Clinically approved IVIg delivered to the hippocampus with focused ultrasound promotes neurogenesis in a model of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32691-32700.	3.3	48
13	Focused ultrasound as a novel strategy for noninvasive gene delivery to retinal Müller glia. <i>Theranostics</i> , 2020, 10, 2982-2999.	4.6	19
14	Focused ultrasound delivery of a selective TrkA agonist rescues cholinergic function in a mouse model of Alzheimer's disease. <i>Science Advances</i> , 2020, 6, eaax6646.	4.7	46
15	<i>Ultrasonic Methods.</i> , 2019, , 209-228.		0
16	Glymphatics Visualization after Focused Ultrasound-Induced Blood-Brain Barrier Opening in Humans. <i>Annals of Neurology</i> , 2019, 86, 975-980.	2.8	80
17	MRI-Guided Focused Ultrasound for Targeted Delivery of rAAV to the Brain. <i>Methods in Molecular Biology</i> , 2019, 1950, 177-197.	0.4	36
18	Strategy to enhance transgene expression in proximity of amyloid plaques in a mouse model of Alzheimer's disease. <i>Theranostics</i> , 2019, 9, 8127-8137.	4.6	22

#	ARTICLE	IF	CITATIONS
19	First-in-human trial of blood-brain barrier opening in amyotrophic lateral sclerosis using MR-guided focused ultrasound. <i>Nature Communications</i> , 2019, 10, 4373.	5.8	312
20	Investigating the efficacy of a combination A β -targeted treatment in a mouse model of Alzheimer's disease. <i>Brain Research</i> , 2018, 1678, 138-145.	1.1	28
21	Noninvasive delivery of an α -synuclein gene silencing vector with magnetic resonance-guided focused ultrasound. <i>Movement Disorders</i> , 2018, 33, 1567-1579.	2.2	49
22	The Neuroprotective Effects of Exercise: Maintaining a Healthy Brain Throughout Aging. <i>Brain Plasticity</i> , 2018, 4, 17-52.	1.9	116
23	Time course of focused ultrasound effects on β -amyloid plaque pathology in the TgCRND8 mouse model of Alzheimer's disease. <i>Scientific Reports</i> , 2018, 8, 14061.	1.6	58
24	Blood-brain barrier opening in Alzheimer's disease using MR-guided focused ultrasound. <i>Nature Communications</i> , 2018, 9, 2336.	5.8	618
25	The human brain endothelial barrier: transcytosis of AAV9, transduction by AAV2. <i>Journal of Neurochemistry</i> , 2017, 140, 192-194.	2.1	11
26	Disrupting the blood-brain barrier with focused ultrasound: Perspectives on inflammation and regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6735-E6736.	3.3	28
27	Effects of Neurotrophic Support and Amyloid-Targeted Combined Therapy on Adult Hippocampal Neurogenesis in a Transgenic Model of Alzheimer's Disease. <i>PLoS ONE</i> , 2016, 11, e0165393.	1.1	8
28	P53 regulates disruption of neuronal development in the adult hippocampus after irradiation. <i>Cell Death Discovery</i> , 2016, 2, 16072.	2.0	14
29	A Comparative Study Evaluating the Impact of Physical Exercise on Disease Progression in a Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016, 53, 243-257.	1.2	40
30	Focused Ultrasound-Induced Neurogenesis Requires an Increase in Blood-Brain Barrier Permeability. <i>PLoS ONE</i> , 2016, 11, e0159892.	1.1	58
31	The Benefits of Exercise and Metabolic Interventions for the Prevention and Early Treatment of Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2016, 14, 47-60.	0.7	64
32	Overexpression of the vesicular acetylcholine transporter enhances dendritic complexity of adult-born hippocampal neurons and improves acquisition of spatial memory during aging. <i>Neurobiology of Aging</i> , 2015, 36, 1881-1889.	1.5	19
33	Gene delivery to the spinal cord using MRI-guided focused ultrasound. <i>Gene Therapy</i> , 2015, 22, 568-577.	2.3	65
34	Alzheimer Disease in a Mouse Model: MR Imaging-guided Focused Ultrasound Targeted to the Hippocampus Opens the Blood-Brain Barrier and Improves Pathologic Abnormalities and Behavior. <i>Radiology</i> , 2014, 273, 736-745.	3.6	226
35	Proliferation, differentiation and amyloid- β production in neural progenitor cells isolated from TgCRND8 mice. <i>Neuroscience</i> , 2014, 261, 52-59.	1.1	13
36	A non-surgical model of cervical spinal cord injury induced with focused ultrasound and microbubbles. <i>Journal of Neuroscience Methods</i> , 2014, 235, 92-100.	1.3	18

#	ARTICLE	IF	CITATIONS
37	Stimulation of Hippocampal Neurogenesis by Transcranial Focused Ultrasound and Microbubbles in Adult Mice. <i>Brain Stimulation</i> , 2014, 7, 304-307.	0.7	122
38	Miniaturized electrochemical system for cholinesterase inhibitor detection. <i>Analytica Chimica Acta</i> , 2013, 774, 73-78.	2.6	16
39	Amyloid- β^2 plaque reduction, endogenous antibody delivery and glial activation by brain-targeted, transcranial focused ultrasound. <i>Experimental Neurology</i> , 2013, 248, 16-29.	2.0	265
40	Two-photon microscopy for real-time monitoring of focused ultrasound-mediated drug delivery to the brain in a mouse model of Alzheimer's disease. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
41	B6e<sc>GFPChAT</sc> mice overexpressing the vesicular acetylcholine transporter exhibit spontaneous hypoactivity and enhanced exploration in novel environments. <i>Brain and Behavior</i> , 2013, 3, 367-383.	1.0	18
42	Effects of voluntary exercise on cognition, neurogenesis, and plaque load in a mouse model of Alzheimers disease.. <i>FASEB Journal</i> , 2013, 27, 712.33.	0.2	0
43	Improvement of cholinergic function during normal and pathological aging. <i>FASEB Journal</i> , 2013, 27, 316.1.	0.2	0
44	Endothelial cells regulate p53-dependent apoptosis of neural progenitors after irradiation. <i>Cell Death and Disease</i> , 2012, 3, e324-e324.	2.7	20
45	Early Increases in Soluble Amyloid- β^2 Levels Coincide with Cholinergic Degeneration in 3xTg-AD Mice. <i>Journal of Alzheimer's Disease</i> , 2012, 32, 267-272.	1.2	15
46	Overexpression of the vesicular acetylcholine transporter increased acetylcholine release in the hippocampus. <i>Neuroscience</i> , 2012, 218, 1-11.	1.1	45
47	Targeted Delivery of Self-Complementary Adeno-Associated Virus Serotype 9 to the Brain, Using Magnetic Resonance Imaging-Guided Focused Ultrasound. <i>Human Gene Therapy</i> , 2012, 23, 1144-1155.	1.4	164
48	Hippocampal GABAergic Neurons are Susceptible to Amyloid- β^2 Toxicity in vitro and are Decreased in Number in the Alzheimer's Disease TgCRND8 Mouse Model. <i>Journal of Alzheimer's Disease</i> , 2012, 29, 293-308.	1.2	61
49	Sodium/myo-Inositol Transporters: Substrate Transport Requirements and Regional Brain Expression in the TgCRND8 Mouse Model of Amyloid Pathology. <i>PLoS ONE</i> , 2011, 6, e24032.	1.1	34
50	Targeted Delivery of Neural Stem Cells to the Brain Using MRI-Guided Focused Ultrasound to Disrupt the Blood-Brain Barrier. <i>PLoS ONE</i> , 2011, 6, e27877.	1.1	234
51	The cell adhesion molecule L1 regulates the expression of choline acetyltransferase and the development of septal cholinergic neurons. <i>Brain and Behavior</i> , 2011, 1, 73-86.	1.0	12
52	Delivery of stem cells to the brain using MRlgFUS. , 2011, , .		0
53	Focused ultrasound: crossing barriers to treat Alzheimer's disease. <i>Therapeutic Delivery</i> , 2011, 2, 281-286.	1.2	6
54	Effect of Ser-129 Phosphorylation on Interaction of β^2 -Synuclein with Synaptic and Cellular Membranes. <i>Journal of Biological Chemistry</i> , 2011, 286, 35863-35873.	1.6	49

#	ARTICLE	IF	CITATIONS
55	Loss of Neuronal Protein Expression in Mouse Hippocampus After Irradiation. <i>Journal of Neuropathology and Experimental Neurology</i> , 2010, 69, 272-280.	0.9	24
56	Abrogation of Early Apoptosis Does Not Alter Late Inhibition of Hippocampal Neurogenesis After Irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 77, 1213-1222.	0.4	12
57	p75NTR-dependent, myelin-mediated axonal degeneration regulates neural connectivity in the adult brain. <i>Nature Neuroscience</i> , 2010, 13, 559-566.	7.1	104
58	Antibodies Targeted to the Brain with Image-Guided Focused Ultrasound Reduces Amyloid- β Plaque Load in the TgCRND8 Mouse Model of Alzheimer's Disease. <i>PLoS ONE</i> , 2010, 5, e10549.	1.1	319
59	Stem cell transplantation for neurometabolic and neurodegenerative diseases. <i>Neuropharmacology</i> , 2010, 58, 845-854.	2.0	44
60	Intraventricular injection of antibodies to β 1-integrins generates pressure gradients in the brain favoring hydrocephalus development in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R1312-R1321.	0.9	15
61	Stimulation of choline acetyltransferase by C3d, a neural cell adhesion molecule ligand. <i>Journal of Neuroscience Research</i> , 2009, 87, 609-616.	1.3	11
62	Anti-amyloid beta treatments: can they promote cholinergic survival and neurogenesis?. <i>Neuroscience Research</i> , 2009, 65, S64.	1.0	0
63	Polysialic acid regulates the clustering, migration, and neuronal differentiation of progenitor cells in the adult hippocampus. <i>Developmental Neurobiology</i> , 2008, 68, 1580-1590.	1.5	63
64	The length of hippocampal cholinergic fibers is reduced in the aging brain. <i>Neurobiology of Aging</i> , 2008, 29, 1666-1679.	1.5	45
65	Polysialic acid limits septal neurite outgrowth on laminin. <i>Brain Research</i> , 2007, 1144, 52-58.	1.1	9
66	Polysialic acid limits choline acetyltransferase activity induced by brain-derived neurotrophic factor. <i>Journal of Neurochemistry</i> , 2006, 99, 797-806.	2.1	32
67	Vaccine Development for Alzheimers Disease. <i>Current Pharmaceutical Design</i> , 2006, 12, 4283-4293.	0.9	16
68	Cell adhesion molecule L1 promotes neurite outgrowth of septal neurons. <i>Journal of Neuroscience Research</i> , 2004, 75, 667-677.	1.3	4
69	Expression of L1 and PSA during sprouting and regeneration in the adult hippocampal formation. <i>Journal of Comparative Neurology</i> , 1998, 399, 1-19.	0.9	68
70	Hippocampal grafts of acetylcholine-producing cells are sufficient to improve behavioural performance following a unilateral fimbria-fornix lesion. <i>Neuroscience</i> , 1998, 84, 771-781.	1.1	41
71	Expression of L1 and PSA during sprouting and regeneration in the adult hippocampal formation. <i>Journal of Comparative Neurology</i> , 1998, 399, 1-19.	0.9	13
72	Constrained and unstable expansion of dislocation loops using an invariant formulation of the free energy. <i>Mechanics of Materials</i> , 1997, 26, 127-137.	1.7	4

#	ARTICLE	IF	CITATIONS
73	Apolipoprotein E4 and Cholinergic Activity in Alzheimer's Disease. , 1997, , 55-60.		0
74	Comparative ontogenic profile of cholinergic markers, including nicotinic and muscarinic receptors, in the rat brain. , 1996, 369, 31-55.		102
75	Developmental profiles of various cholinergic markers in the rat main olfactory bulb using quantitative autoradiography. , 1996, 373, 433-450.		29
76	Apolipoprotein E4, Cholinergic Integrity, Synaptic Plasticity and Alzheimer's Disease. , 1996, , 20-28.		5
77	Apolipoprotein E4 allele as a predictor of cholinergic deficits and treatment outcome in Alzheimer disease.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 12260-12264.	3.3	579
78	Facilitation of acetylcholine release and cognitive performance by an M(2)-muscarinic receptor antagonist in aged memory-impaired. Journal of Neuroscience, 1995, 15, 1455-1462.	1.7	206
79	Cholinergic markers in aged cognitively impaired long-evans rats. Neuroscience, 1995, 67, 277-292.	1.1	75
80	Autoradiographic Distribution of Nicotinic Receptor Sites Labelled with [3H]Cytisine in the Human Brain. , 1995, , 363-369.		2
81	Multiple cholinergic markers are unexpectedly not altered in the rat dentate gyrus following entorhinal cortex lesions. Journal of Neuroscience, 1994, 14, 2476-2484.	1.7	44
82	Apolipoprotein E4 and Cholinergic Dysfunction in Alzheimer's Disease. , 1994, , 72-76.		6
83	Chapter 8: Autoradiographic distribution of putative muscarinic receptor sub-types in mammalian brain. Progress in Brain Research, 1993, 98, 85-93.	0.9	30
84	Characterization and autoradiographic distribution of [3H]AF-DX 384 binding to putative muscarinic M2 receptors in the rat brain. European Journal of Pharmacology, 1992, 217, 173-184.	1.7	55
85	Comparative Alterations of Nicotinic and Muscarinic Binding Sites in Alzheimer's and Parkinson's Diseases. Journal of Neurochemistry, 1992, 58, 529-541.	2.1	316
86	Neurochemical Deficits in Pathological Brain Aging: Specificity and Possible Relevance for Treatment Strategies. Clinical Neuropharmacology, 1990, 13, S73-S80.	0.2	25