Helene Benveniste

List of Publications by Year
in descending order

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71	9,498	172207	102304
papers	citations	29 h-index	66 g-index

77	77	77	10014
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Paravascular Pathway Facilitates CSF Flow Through the Brain Parenchyma and the Clearance of Interstitial Solutes, Including Amyloid Î². Science Translational Medicine, 2012, 4, 147ra111.	5.8	3,514
2	Brain-wide pathway for waste clearance captured by contrast-enhanced MRI. Journal of Clinical Investigation, 2013, 123, 1299-1309.	3.9	801
3	Î²-Amyloid accumulation in the human brain after one night of sleep deprivation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4483-4488.	3.3	571
4	Vascular dysfunctionâ€"The disregarded partner of Alzheimer's disease. Alzheimer's and Dementia, 2019, 15, 158-167.	0.4	454
5	Perivascular spaces in the brain: anatomy, physiology and pathology. Nature Reviews Neurology, 2020, 16, 137-153.	4.9	405
6	Suppression of glymphatic fluid transport in a mouse model of Alzheimer's disease. Neurobiology of Disease, 2016, 93, 215-225.	2.1	377
7	The Glymphatic System and Waste Clearance with Brain Aging: A Review. Gerontology, 2019, 65, 106-119.	1.4	291
8	The Effect of Body Posture on Brain Glymphatic Transport. Journal of Neuroscience, 2015, 35, 11034-11044.	1.7	283
9	Evaluating glymphatic pathway function utilizing clinically relevant intrathecal infusion of CSF tracer. Journal of Translational Medicine, 2013, 11, 107.	1.8	262
10	Understanding the role of the perivascular space in cerebral small vessel disease. Cardiovascular Research, 2018, 114, 1462-1473.	1.8	211
11	Use and Misuse of Opioids in Chronic Pain. Annual Review of Medicine, 2018, 69, 451-465.	5.0	190
12	In vivo 3D digital atlas database of the adult C57BL/6J mouse brain by magnetic resonance microscopy. Frontiers in Neuroanatomy, 2008, 2, 1.	0.9	169
13	Cerebrospinal Fluid Clearance in Alzheimer Disease Measured with Dynamic PET. Journal of Nuclear Medicine, 2017, 58, 1471-1476.	2.8	161
14	Anesthesia with Dexmedetomidine and Low-dose Isoflurane Increases Solute Transport via the Glymphatic Pathway in Rat Brain When Compared with High-dose Isoflurane. Anesthesiology, 2017, 127, 976-988.	1.3	144
15	Impaired Glymphatic Transport in Spontaneously Hypertensive Rats. Journal of Neuroscience, 2019, 39, 6365-6377.	1.7	131
16	The Glymphatic Pathway: Waste Removal from the CNS via Cerebrospinal Fluid Transport. Neuroscientist, 2017, 23, 454-465.	2.6	124
17	Glymphatic System Function in Relation to Anesthesia and Sleep States. Anesthesia and Analgesia, 2019, 128, 747-758.	1.1	95
18	Acute alcohol intoxication decreases glucose metabolism but increases acetate uptake in the human brain. NeuroImage, 2013, 64, 277-283.	2.1	88

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19	Quantitative Gdâ€ĐOTA uptake from cerebrospinal fluid into rat brain using 3D VFAâ€ŞPGR at 9.4T. Magnetic Resonance in Medicine, 2018, 79, 1568-1578.	1.9	83
20	Optimal Mass Transport with Lagrangian Workflow Reveals Advective and Diffusion Driven Solute Transport in the Glymphatic System. Scientific Reports, 2020, 10, 1990.	1.6	75
21	Metabolomic Profiling of Childrenâ€™s Brains Undergoing General Anesthesia with Sevoflurane and Propofol. Anesthesiology, 2012, 117, 1062-1071.	1.3	68
22	Apparent diffusion coefficient changes in human brain during sleep â€“ Does it inform on the existence of a glymphatic system?. NeuroImage, 2019, 185, 263-273.	2.1	62
23	Cerebrospinal and interstitial fluid transport via the glymphatic pathway modeled by optimal mass transport. NeuroImage, 2017, 152, 530-537.	2.1	57
24	Glymphatic Cerebrospinal Fluid and Solute Transport Quantified by MRI and PET Imaging. Neuroscience, 2021, 474, 63-79.	1.1	51
25	Mapping of CSF transport using high spatiotemporal resolution dynamic contrastâ€enhanced MRI in mice: Effect of anesthesia. Magnetic Resonance in Medicine, 2021, 85, 3326-3342.	1.9	47
26	Impaired neurogenesis alters brain biomechanics in a neuroprogenitor-based genetic subtype of congenital hydrocephalus. Nature Neuroscience, 2022, 25, 458-473.	7.1	46
27	Alcohol Decreases Baseline Brain Glucose Metabolism More in Heavy Drinkers Than Controls But Has No Effect on Stimulation-Induced Metabolic Increases. Journal of Neuroscience, 2015, 35, 3248-3255.	1.7	43
28	Ketogenic diet reduces alcohol withdrawal symptoms in humans and alcohol intake in rodents. Science Advances, 2021, 7, .	4.7	41
29	Cerebral small vessel disease: A glymphopathy?. Current Opinion in Neurobiology, 2022, 72, 15-21.	2.0	41
30	Cerebral amyloid angiopathy is associated with glymphatic transport reduction and time-delayed solute drainage along the neck arteries. Nature Aging, 2022, 2, 214-223.	5.3	41
31	PTEN action in leukaemia dictated by the tissue microenvironment. Nature, 2014, 510, 402-406.	13.7	40
32	Disparate volumetric fluid shifts across cerebral tissue compartments with two different anesthetics. Fluids and Barriers of the CNS, 2021, 18, 1.	2.4	34
33	In vivo T1 mapping for quantifying glymphatic system transport and cervical lymph node drainage. Scientific Reports, 2020, 10, 14592.	1.6	30
34	Endocannabinoids and acute pain after total knee arthroplasty. Pain, 2015, 156, 341-347.	2.0	29
35	Ketogenic Diet Suppresses Alcohol Withdrawal Syndrome in Rats. Alcoholism: Clinical and Experimental Research, 2018, 42, 270-277.	1.4	29
36	Interleukin-6 and leptin levels are associated with preoperative pain severity in patients with osteoarthritis but not with acute pain after total knee arthroplasty. Knee, 2018, 25, 25-33.	0.8	24

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37	A Novel Transgenic Rat Model of Robust Cerebral Microvascular Amyloid with Prominent Vasculopathy. American Journal of Pathology, 2018, 188, 2877-2889.	1.9	23
38	Brain Morphometry and Longitudinal Relaxation Time of Spontaneously Hypertensive Rats (SHRs) in Early and Intermediate Stages of Hypertension Investigated by 3D VFA-SPGR MRI. Neuroscience, 2019, 404, 14-26.	1.1	23
39	Cerebral Vascular Dysfunctions Detected in Human Small Vessel Disease and Implications for Preclinical Studies. Annual Review of Physiology, 2022, 84, 409-434.	5.6	23
40	Does glucagon-like peptide-1 (GLP-1) receptor agonist stimulation reduce alcohol intake in patients with alcohol dependence: study protocol of a randomised, double-blinded, placebo-controlled clinical trial. BMJ Open, 2018, 8, e019562.	0.8	22
41	The glymphatic system and its role in cerebral homeostasis. Journal of Applied Physiology, 2020, 129, 1330-1340.	1.2	22
42	Cocaine is pharmacologically active in the nonhuman primate fetal brain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1582-1587.	3.3	19
43	Glutamate, Microdialysis, and Cerebral Ischemia. Anesthesiology, 2009, 110, 422-425.	1.3	19
44	Metabolic Profiling of Dividing Cells in Live Rodent Brain by Proton Magnetic Resonance Spectroscopy (1HMRS) and LCModel Analysis. PLoS ONE, 2014, 9, e94755.	1.1	18
45	A Review of Translational Magnetic Resonance Imaging in Human and Rodent Experimental Models of Small Vessel Disease. Translational Stroke Research, 2021, 12, 15-30.	2.3	18
46	Optimal-mass-transfer-based estimation of glymphatic transport in living brain. , 2015, 9413, .		17
47	GlymphVIS: Visualizing Glymphatic Transport Pathways Using Regularized Optimal Transport. Lecture Notes in Computer Science, 2018, 11070, 844-852.	1.0	17
48	Intrathecal morphine administration reduces postoperative pain and peripheral endocannabinoid levels in total knee arthroplasty patients: a randomized clinical trial. BMC Anesthesiology, 2018, 18, 27.	0.7	16
49	Leptin Levels Are Negatively Correlated with 2-Arachidonoylglycerol in the Cerebrospinal Fluid of Patients with Osteoarthritis. PLoS ONE, 2015, 10, e0123132.	1.1	13
50	Modern cerebrospinal fluid flow research and Heinrich Quincke's seminal 1872 article on the distribution of cinnabar in freely moving animals. Journal of Comparative Neurology, 2015, 523, 1748-1755.	0.9	13
51	Simultaneous Preclinical Positron Emission Tomography-Magnetic Resonance Imaging Study of Lymphatic Drainage of Chelator-Free ⁶⁴Cu-Labeled Nanoparticles. Cancer Biotherapy and Radiopharmaceuticals, 2018, 33, 213-220.	0.7	13
52	MIF inhibition enhances pulmonary angiogenesis and lung development in congenital diaphragmatic hernia. Pediatric Research, 2019, 85, 711-718.	1.1	13
53	Trajectories of Brain Lactate and Re-visited Oxygen-Glucose Index Calculations Do Not Support Elevated Non-oxidative Metabolism of Glucose Across Childhood. Frontiers in Neuroscience, 2018, 12, 631.	1.4	12
54	Diffuse white matter loss in a transgenic rat model of cerebral amyloid angiopathy. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 1103-1118.	2.4	12

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55	Reduced Levels of Cerebrospinal Fluid/Plasma AÎ²40 as an Early Biomarker for Cerebral Amyloid Angiopathy in RTg-DI Rats. International Journal of Molecular Sciences, 2020, 21, 303.	1.8	10
56	Sustained glymphatic transport and impaired drainage to the nasal cavity observed in multiciliated cell ciliopathies with hydrocephalus. Fluids and Barriers of the CNS, 2022, 19, 20.	2.4	9
57	The Brain's Waste-Removal System. Cerebrum: the Dana Forum on Brain Science, 2018, 2018, .	0.1	8
58	Characterization of perivascular space pathology in a rat model of cerebral small vessel disease by in vivo magnetic resonance imaging. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1813-1826.	2.4	8
59	Quinckesâ€™ pioneering 19th centuries CSF studies may inform 21th centuries research. Neurology Psychiatry and Brain Research, 2015, 21, 79-81.	2.0	7
60	Characterization of Patients with Difficult-to-Treat Acute Pain Following Total Knee Arthroplasty Using Multi-Modal Analgesia. Open Pain Journal, 2013, 6, 1-6.	0.4	6
61	Maximization of contrast-to-noise ratio to distinguish diffusion and microcirculatory flow. Journal of Magnetic Resonance Imaging, 1991, 1, 39-46.	1.9	5
62	Imaging the fetal nonhuman primate brain with SV2A positron emission tomography (PET). European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 3679-3691.	3.3	4
63	Emergent White Matter Degeneration in the rTg-DI Rat Model of Cerebral Amyloid Angiopathy Exhibits Unique Proteomic Changes. American Journal of Pathology, 2022, 192, 426-440.	1.9	3
64	DETECTION OFCa²⁺-DEPENDENT NEURONAL ACTIVITY SIMULTANEOUSLY WITH DYNAMIC CHANGES IN CEREBRAL BLOOD VOLUME AND TISSUE OXYGENATION FROM THE LIVE RAT BRAIN. Journal of Innovative Optical Health Sciences, 2009, 02, 189-200.	0.5	2
65	Glymphatic System. , 2015, , 1-18.		2
66	Fisher-Rao Regularized Transport Analysis of the Glymphatic System and Waste Drainage. Lecture Notes in Computer Science, 2020, 12267, 573-582.	1.0	2
67	Reply to: Rethink the classical view of cerebrospinal fluid production. Nature Reviews Neurology, 2021, 17, 590-591.	4.9	1
68	MR imaging of microcirculation in rat brain: Correlation with carbon dioxide-induced changes in blood flow. Journal of Magnetic Resonance Imaging, 1991, 1, 673-681.	1.9	0
69	F2-02-01: Influence of body posture on brain waste removal by the glymphatic pathway. , 2015, 11, P165-P165.		0
70	Glymphatic System. , 2016, , 1945-1962.		0
71	Development of an MRI-Compatible Nasal Drug Delivery Method for Probing Nicotine Addiction Dynamics. Pharmaceutics, 2021, 13, 2069.	2.0	0