

Andre Obenaus

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112
papers

3,003
citations

33
h-index

50
g-index

122
ext. papers

3,651
ext. citations

5.4
avg, IF

5.24
L-index

#	Paper	IF	Citations
112	Osmolality-induced changes in extracellular volume alter epileptiform bursts independent of chemical synapses in the rat: importance of non-synaptic mechanisms in hippocampal epileptogenesis. <i>Neuroscience Letters</i> , 1990 , 120, 267-70	3.3	146
111	Response of the cerebral vasculature following traumatic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 2320-2339	7.3	129
110	Brain water mobility decreases after astrocytic aquaporin-4 inhibition using RNA interference. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 819-31	7.3	128
109	Docosahexaenoic Acid therapy of experimental ischemic stroke. <i>Translational Stroke Research</i> , 2011 , 2, 33-41	7.8	127
108	Anhedonia Following Early-Life Adversity Involves Aberrant Interaction of Reward and Anxiety Circuits and Is Reversed by Partial Silencing of Amygdala Corticotropin-Releasing Hormone Gene. <i>Biological Psychiatry</i> , 2018 , 83, 137-147	7.9	85
107	Posttraumatic reduction of edema with aquaporin-4 RNA interference improves acute and chronic functional recovery. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 1621-32	7.3	84
106	A novel, noninvasive, predictive epilepsy biomarker with clinical potential. <i>Journal of Neuroscience</i> , 2014 , 34, 8672-84	6.6	82
105	Novel aspirin-triggered neuroprotectin D1 attenuates cerebral ischemic injury after experimental stroke. <i>Experimental Neurology</i> , 2012 , 236, 122-30	5.7	81
104	Chronic cerebrovascular dysfunction after traumatic brain injury. <i>Journal of Neuroscience Research</i> , 2016 , 94, 609-22	4.4	70
103	Repeated mild traumatic brain injury results in long-term white-matter disruption. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 715-23	7.3	68
102	Temporal and regional evolution of aquaporin-4 expression and magnetic resonance imaging in a rat pup model of neonatal stroke. <i>Pediatric Research</i> , 2007 , 62, 248-54	3.2	67
101	Matrix metalloproteinase inhibition attenuates brain edema in an in vivo model of surgically-induced brain injury. <i>Neurosurgery</i> , 2007 , 61, 1067-75; discussion 1075-6	3.2	65
100	Comparison of two neonatal ischemic injury models using magnetic resonance imaging. <i>Pediatric Research</i> , 2007 , 61, 9-14	3.2	63
99	Traumatic brain injury in young rats leads to progressive behavioral deficits coincident with altered tissue properties in adulthood. <i>Journal of Neurotrauma</i> , 2012 , 29, 2060-74	5.4	62
98	Multi-modal magnetic resonance imaging alterations in two rat models of mild neurotrauma. <i>Journal of Neurotrauma</i> , 2007 , 24, 1147-60	5.4	62
97	Improved long-term outcome after transient cerebral ischemia in aquaporin-4 knockout mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 277-290	7.3	60
96	Bone marrow cell cotransplantation with islets improves their vascularization and function. <i>Transplantation</i> , 2010 , 89, 686-93	1.8	59

95	MRI uncovers disrupted hippocampal microstructure that underlies memory impairments after early-life adversity. <i>Hippocampus</i> , 2016 , 26, 1618-1632	3.5	59
94	Hyperbaric oxygen therapy for traumatic brain injury. <i>Medical Gas Research</i> , 2011 , 1, 21	2.2	58
93	Long-term magnetic resonance imaging of stem cells in neonatal ischemic injury. <i>Annals of Neurology</i> , 2011 , 69, 282-91	9.4	56
92	Experimental intracerebral hematoma in the rat: characterization by sequential magnetic resonance imaging, behavior, and histopathology. Effect of albumin therapy. <i>Brain Research</i> , 2007 , 1157, 146-55	3.7	55
91	Rapid, Coordinate Inflammatory Responses after Experimental Febrile Status Epilepticus: Implications for Epileptogenesis. <i>ENeuro</i> , 2015 , 2,	3.9	51
90	Recombinant Osteopontin Stabilizes Smooth Muscle Cell Phenotype via Integrin Receptor/Integrin-Linked Kinase/Rac-1 Pathway After Subarachnoid Hemorrhage in Rats. <i>Stroke</i> , 2016 , 47, 1319-27	6.7	43
89	Docosanoids Promote Neurogenesis and Angiogenesis, Blood-Brain Barrier Integrity, Penumbra Protection, and Neurobehavioral Recovery After Experimental Ischemic Stroke. <i>Molecular Neurobiology</i> , 2018 , 55, 7090-7106	6.2	38
88	Traumatic brain injury results in acute rarefication of the vascular network. <i>Scientific Reports</i> , 2017 , 7, 239	4.9	36
87	Mild Concussion, but Not Moderate Traumatic Brain Injury, Is Associated with Long-Term Depression-Like Phenotype in Mice. <i>PLoS ONE</i> , 2016 , 11, e0146886	3.7	36
86	Criteria to define mild, moderate, and severe traumatic brain injury in the mouse controlled cortical impact model. <i>Experimental Neurology</i> , 2018 , 310, 48-57	5.7	36
85	Docosahexaenoic acid complexed to albumin provides neuroprotection after experimental stroke in aged rats. <i>Neurobiology of Disease</i> , 2014 , 62, 1-7	7.5	35
84	Astrocytic Ephrin-B1 Regulates Synapse Remodeling Following Traumatic Brain Injury. <i>ASN Neuro</i> , 2016 , 8, 1-18	5.3	35
83	Role of PDGF-D and PDGFR- β in neuroinflammation in experimental ICH mice model. <i>Experimental Neurology</i> , 2016 , 283, 157-64	5.7	34
82	Functional Consequences of Synapse Remodeling Following Astrocyte-Specific Regulation of Ephrin-B1 in the Adult Hippocampus. <i>Journal of Neuroscience</i> , 2018 , 38, 5710-5726	6.6	34
81	Neuroprotectin D1 upregulates Iduna expression and provides protection in cellular uncompensated oxidative stress and in experimental ischemic stroke. <i>Cell Death and Differentiation</i> , 2017 , 24, 1091-1099	12.7	33
80	Magnetic resonance imaging in cerebral ischemia: focus on neonates. <i>Neuropharmacology</i> , 2008 , 55, 271-89	3.9	33
79	Male and Female Mice Exhibit Divergent Responses of the Cortical Vasculature to Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018 , 35, 1646-1658	5.4	32
78	Tissue vulnerability is increased following repetitive mild traumatic brain injury in the rat. <i>Brain Research</i> , 2013 , 1499, 109-20	3.7	32

77	Western High-Fat Diet Consumption during Adolescence Increases Susceptibility to Traumatic Stress while Selectively Disrupting Hippocampal and Ventricular Volumes. <i>ENeuro</i> , 2016 , 3,	3.9	31
76	PDGFR- β modulates vascular smooth muscle cell phenotype via IRF-9/SIRT-1/NF- κ B pathway in subarachnoid hemorrhage rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 1369-1380	7.3	30
75	Automated core-penumbra quantification in neonatal ischemic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 2161-70	7.3	29
74	Automated detection of brain abnormalities in neonatal hypoxia ischemic injury from MR images. <i>Medical Image Analysis</i> , 2014 , 18, 1059-69	15.4	28
73	Rodent neonatal bilateral carotid artery occlusion with hypoxia mimics human hypoxic-ischemic injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 1305-16	7.3	28
72	CX3CR1-CCR2-dependent monocyte-microglial signaling modulates neurovascular leakage and acute injury in a mouse model of childhood stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 1919-1935	7.3	27
71	Iron Accumulation Is Not Homogenous among Patients with Parkinson's Disease. <i>Parkinson's Disease</i> , 2015 , 2015, 324843	2.6	27
70	Computational analysis reveals increased blood deposition following repeated mild traumatic brain injury. <i>NeuroImage: Clinical</i> , 2012 , 1, 18-28	5.3	27
69	Elovanoids are a novel class of homeostatic lipid mediators that protect neural cell integrity upon injury. <i>Science Advances</i> , 2017 , 3, e1700735	14.3	25
68	Inhibition of stress fiber formation preserves blood-brain barrier after intracerebral hemorrhage in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018 , 38, 87-102	7.3	25
67	Automated ischemic lesion detection in a neonatal model of hypoxic ischemic injury. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 772-81	5.6	25
66	Acute treatment with docosahexaenoic acid complexed to albumin reduces injury after a permanent focal cerebral ischemia in rats. <i>PLoS ONE</i> , 2013 , 8, e77237	3.7	23
65	Albumin reduces blood-brain barrier permeability but does not alter infarct size in a rat model of neonatal stroke. <i>Pediatric Research</i> , 2007 , 62, 261-6	3.2	23
64	Up-regulation of Wnt/ β catenin expression is accompanied with vascular repair after traumatic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018 , 38, 274-289	7.3	23
63	Gliovascular changes precede white matter damage and long-term disorders in juvenile mild closed head injury. <i>Glia</i> , 2018 , 66, 1663-1677	9	22
62	Reparative effects of neural stem cells in neonatal rats with hypoxic-ischemic injury are not influenced by host sex. <i>Pediatric Research</i> , 2014 , 75, 603-11	3.2	21
61	T2 relaxation time post febrile status epilepticus predicts cognitive outcome. <i>Experimental Neurology</i> , 2015 , 269, 242-52	5.7	20
60	Neuroimaging as a basis for rational stem cell therapy. <i>Pediatric Neurology</i> , 2009 , 40, 227-36	2.9	20

59	Meta-analysis of apparent diffusion coefficients in the newborn brain. <i>Pediatric Neurology</i> , 2009 , 41, 263-74	2.9	20
58	Magnetic resonance imaging of functional anatomy: use for small animal epilepsy models. <i>Epilepsia</i> , 2007 , 48 Suppl 4, 11-7	6.4	20
57	Does Anhedonia Presage Increased Risk of Posttraumatic Stress Disorder? : Adolescent Anhedonia and Posttraumatic Disorders. <i>Current Topics in Behavioral Neurosciences</i> , 2018 , 38, 249-265	3.4	16
56	Exposure to an obesogenic diet during adolescence leads to abnormal maturation of neural and behavioral substrates underpinning fear and anxiety. <i>Brain, Behavior, and Immunity</i> , 2018 , 70, 96-117	16.6	15
55	Neuronal and glial cell populations in the piriform cortex distinguished by using an approximation of q-space imaging after status epilepticus. <i>American Journal of Neuroradiology</i> , 2004 , 25, 1225-33	4.4	15
54	OBSERVING TUMOR VASCULARITY NONINVASIVELY USING MAGNETIC RESONANCE IMAGING. <i>Image Analysis and Stereology</i> , 2002 , 21, 107	1	15
53	Differential detection of impact site versus rotational site injury by magnetic resonance imaging and microglial morphology in an unrestrained mild closed head injury model. <i>Journal of Neurochemistry</i> , 2016 , 136 Suppl 1, 18-28	6	13
52	Corpus Callosum Vasculature Predicts White Matter Microstructure Abnormalities after Pediatric Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018 ,	5.4	13
51	Neuroprotective effect of hyperbaric oxygen therapy in a juvenile rat model of repetitive mild traumatic brain injury. <i>Medical Gas Research</i> , 2016 , 6, 187-193	2.2	13
50	Modulating the water channel AQP4 alters miRNA expression, astrocyte connectivity and water diffusion in the rodent brain. <i>Scientific Reports</i> , 2018 , 8, 4186	4.9	12
49	Early cerebrovascular and long-term neurological modifications ensue following juvenile mild traumatic brain injury in male mice. <i>Neurobiology of Disease</i> , 2020 , 141, 104952	7.5	11
48	Hypothermia modulates cytokine responses after neonatal rat hypoxic-ischemic injury and reduces brain damage. <i>ASN Neuro</i> , 2014 , 6,	5.3	11
47	Repeated isoflurane in adult male mice leads to acute and persistent motor decrements with long-term modifications in corpus callosum microstructural integrity. <i>Journal of Neuroscience Research</i> , 2019 , 97, 332-345	4.4	11
46	Repeated Pediatric Concussions Evoke Long-Term Oligodendrocyte and White Matter Microstructural Dysregulation Distant from the Injury. <i>Developmental Neuroscience</i> , 2018 , 40, 358-375	2.2	11
45	Fetal stress-mediated hypomethylation increases the brain susceptibility to hypoxic-ischemic injury in neonatal rats. <i>Experimental Neurology</i> , 2016 , 275 Pt 1, 1-10	5.7	10
44	Juvenile mild traumatic brain injury elicits distinct spatiotemporal astrocyte responses. <i>Glia</i> , 2020 , 68, 528-542	9	10
43	Characterization and preclinical evaluation of the cGMP grade DNA based vaccine, AV-1959D to enter the first-in-human clinical trials. <i>Neurobiology of Disease</i> , 2020 , 139, 104823	7.5	9
42	Epilepsy-predictive magnetic resonance imaging changes following experimental febrile status epilepticus: Are they translatable to the clinic?. <i>Epilepsia</i> , 2018 , 59, 2005-2018	6.4	9

41	New Mechanistic Insights, Novel Treatment Paradigms, and Clinical Progress in Cerebrovascular Diseases. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 623751	5.3	9
40	Acute intranasal osteopontin treatment in male rats following TBI increases the number of activated microglia but does not alter lesion characteristics. <i>Journal of Neuroscience Research</i> , 2020 , 98, 141-154	4.4	8
39	Aberrant Maturation of the Uncinate Fasciculus Follows Exposure to Unpredictable Patterns of Maternal Signals. <i>Journal of Neuroscience</i> , 2021 , 41, 1242-1250	6.6	8
38	Astrocytic Ephrin-B1 Controls Excitatory-Inhibitory Balance in Developing Hippocampus. <i>Journal of Neuroscience</i> , 2020 , 40, 6854-6871	6.6	8
37	Imatinib attenuates cerebrovascular injury and phenotypic transformation after intracerebral hemorrhage in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 311, R1093-R1104	3.2	8
36	Neuroimaging of stroke and ischemia in animal models. <i>Translational Stroke Research</i> , 2012 , 3, 4-7	7.8	7
35	Neuroimaging biomarkers for epilepsy: advances and relevance to glial cells. <i>Neurochemistry International</i> , 2013 , 63, 712-8	4.4	7
34	Cerebrovascular phenotypes in mouse models of Alzheimer's disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 41, 1821-1841	7.3	7
33	Diffusion tensor imaging identifies aspects of therapeutic estrogen receptor ligand-induced remyelination in a mouse model of multiple sclerosis. <i>Neurobiology of Disease</i> , 2019 , 130, 104501	7.5	6
32	Noninvasive magnetic resonance imaging stratifies injury severity in a rodent model of male juvenile traumatic brain injury. <i>Journal of Neuroscience Research</i> , 2020 , 98, 129-140	4.4	6
31	Visual and Contextual Modeling for the Detection of Repeated Mild Traumatic Brain Injury. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 11-22	11.7	6
30	Region specific oligodendrocyte transcription factor expression in a model of neonatal hypoxic injury. <i>International Journal of Developmental Neuroscience</i> , 2017 , 61, 1-11	2.7	5
29	A Novel Technique for Visualizing and Analyzing the Cerebral Vasculature in Rodents. <i>Translational Stroke Research</i> , 2018 , 10, 216	7.8	5
28	Dynamic low-level context for the detection of mild traumatic brain injury. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 145-53	5	5
27	Computational Analysis: A Bridge to Translational Stroke Treatment 2012 , 881-909		5
26	Small Interference RNA Targeting Connexin-43 Improves Motor Function and Limits Astrogliosis After Juvenile Traumatic Brain Injury. <i>ASN Neuro</i> , 2019 , 11, 1759091419847090	5.3	4
25	Blocking pro-inflammatory platelet-activating factor receptors and activating cell survival pathways: A novel therapeutic strategy in experimental ischemic stroke. <i>Brain Circulation</i> , 2020 , 6, 260-268	2.7	4
24	Susceptibility-Weighted Imaging Identifies Iron-Oxide-Labeled Human Neural Stem Cells: Automated Computational Detection. <i>Developmental Neuroscience</i> , 2016 , 38, 445-457	2.2	4

23	NAAA-regulated lipid signaling governs the transition from acute to chronic pain. <i>Science Advances</i> , 2021 , 7, eabi8834	14.3	3
22	Early life adversity in male mice sculpts reward circuits. <i>Neurobiology of Stress</i> , 2021 , 15, 100409	7.6	3
21	Role of the noninvasive imaging techniques in monitoring and understanding the evolution of brain edema. <i>Journal of Neuroscience Research</i> , 2021 ,	4.4	3
20	A Biomarker for Predicting Responsiveness to Stem Cell Therapy Based on Mechanism-of-Action: Evidence From Cerebral Injury. <i>Cell Reports</i> , 2020 , 31, 107622	10.6	2
19	Drill hole defects: induction, imaging, and analysis in the rodent. <i>Methods in Molecular Biology</i> , 2011 , 690, 301-14	1.4	2
18	Reduction of Cerebral Edema via an Osmotic Transport Device Improves Functional Outcome after Traumatic Brain Injury in Mice. <i>Acta Neurochirurgica Supplementum</i> , 2016 , 121, 285-9	1.7	2
17	SPARC coordinates extracellular matrix remodeling and efficient recruitment to and migration of antigen-specific T cells in the brain following infection. <i>Scientific Reports</i> , 2021 , 11, 4549	4.9	2
16	Maternal Undernutrition Modulates Neonatal Rat Cerebrovascular Structure, Function, and Vulnerability to Mild Hypoxic-Ischemic Injury via Corticosteroid-Dependent and -Independent Mechanisms. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
15	Contusion Rodent Model of Traumatic Brain Injury: Controlled Cortical Impact. <i>Methods in Molecular Biology</i> , 2021 , 2193, 49-65	1.4	2
14	Multiple sensory illusions are evoked during the course of proton therapy. <i>Life Sciences in Space Research</i> , 2020 , 26, 140-148	2.4	1
13	Acute Treatment With Gleevec Does Not Promote Early Vascular Recovery Following Intracerebral Hemorrhage in Adult Male Rats. <i>Frontiers in Neuroscience</i> , 2020 , 14, 46	5.1	1
12	Maternal n-3 Polyunsaturated Fatty Acid Enriched Diet Commands Fatty Acid Composition in Postnatal Brain and Protects from Neonatal Arterial Focal Stroke. <i>Translational Stroke Research</i> , 2021 , 1	7.8	1
11	Prenatal metyrapone treatment modulates neonatal cerebrovascular structure, function, and vulnerability to mild hypoxic-ischemic injury. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020 , 318, R1-R16	3.2	1
10	Temporal evolution of heme oxygenase-1 expression in reactive astrocytes and microglia in response to traumatic brain injury. <i>Brain Hemorrhages</i> , 2020 , 1, 65-74	2.1	0
9	Noninvasive Imaging Techniques for Brain Edema 2017 , 51-69		0
8	Viral mimetic triggers cerebral arteriopathy in juvenile brain via neutrophil elastase and NETosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 41, 3171-3186	7.3	0
7	Combined Therapy With Avastin, a PAF Receptor Antagonist and a Lipid Mediator Inhibited Glioblastoma Tumor Growth. <i>Frontiers in Pharmacology</i> , 2021 , 12, 746470	5.6	0
6	Short-term exposure to an obesogenic diet during adolescence elicits anxiety-related behavior and neuroinflammation: modulatory effects of exogenous neuregulin-1.. <i>Translational Psychiatry</i> , 2022 , 12, 83	8.6	0

- 5 Longitudinal dynamics of microvascular recovery after acquired cortical injury.. *Acta Neuropathologica Communications*, **2022**, 10, 59 7.3 ○
- 4 Neuroprotective role of nitric oxide inhalation and nitrite in a Neonatal Rat Model of Hypoxic-Ischemic Injury.. *PLoS ONE*, **2022**, 17, e0268282 3.7 ○
- 3 High-energy high-charge (HZE) radiation exposure stimulates progressive astrogliosis in the CA1 region of the hippocampus in rats. *FASEB Journal*, **2007**, 21, A398 0.9
- 2 Automated Identification of Injury Dynamics After Neonatal Hypoxia-Ischemia. *Computational Biology*, **2015**, 77-97 0.7
- 1 A Real-Time Analysis of Traumatic Brain Injury from T2 Weighted Magnetic Resonance Images Using a Symmetry-Based Algorithm. *Computational Biology*, **2015**, 99-117 0.7