Abraham Jacob Al-Ahmad

List of Publications by Year
in descending order

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43 papers	3,010 citations	218677 26 h-index	330143 37 g-index
50 all docs	50 docs citations	50 times ranked	3786 citing authors

#	Article	IF	Citations
1	Abeta peptides disrupt the barrier integrity and glucose metabolism of human induced pluripotent stem cell-derived brain microvascular endothelial cells. NeuroToxicology, 2022, 89, 110-120.	3.0	6
2	Neurolysin substrates bradykinin, neurotensin and substance P enhance brain microvascular permeability in a human in vitro model. Journal of Neuroendocrinology, 2021, 33, e12931.	2.6	14
3	Presence of a mutation in PSEN1 or PSEN2 gene is associated with an impaired brain endothelial cell phenotype in vitro. Fluids and Barriers of the CNS, 2021, 18, 3.	5.0	25
4	Abstract P808: The Main Peptide Ssubstrates of Neurolysin Enhance Brain Microvascular Permeability in a Human in vitro Model. Stroke, 2021, 52, .	2.0	0
5	Neurological diseases at the blood-brain barrier: Stemming new scientific paradigms using patient-derived induced pluripotent cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165358.	3.8	13
6	CNS organoids: an innovative tool for neurological disease modeling and drug neurotoxicity screening. Drug Discovery Today, 2020, 25, 456-465.	6.4	36
7	Estimating Brain Permeability Using In Vitro Blood-Brain Barrier Models. Methods in Molecular Biology, 2020, 2367, 47-72.	0.9	17
8	LCâ€“MS/MS-based in vitro and in vivo investigation of bloodâ€“brain barrier integrity by simultaneous quantitation of mannitol and sucrose. Fluids and Barriers of the CNS, 2020, 17, 61.	5.0	21
9	An iPSC-Derived Neuron Model of CLN3 Disease Facilitates Small Molecule Phenotypic Screening. ACS Pharmacology and Translational Science, 2020, 3, 931-947.	4.9	14
10	Brain Delivery of a Potent Opioid Receptor Agonist, Biphalin during Ischemic Stroke: Role of Organic Anion Transporting Polypeptide (OATP). Pharmaceutics, 2019, 11, 467.	4.5	27
11	Oxygen-Glucose Deprivation/Reoxygenation-Induced Barrier Disruption at the Human Bloodâ€“Brain Barrier is Partially Mediated Through the HIF-1 Pathway. NeuroMolecular Medicine, 2019, 21, 414-431.	3.4	26
12	Effects of glyphosate and aminomethylphosphonic acid on an isogeneic model of the human blood-brain barrier. Toxicology Letters, 2019, 304, 39-49.	0.8	71
13	Hyaluronan impairs the barrier integrity of brain microvascular endothelial cells through a CD44-dependent pathway. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1759-1775.	4.3	43
14	Determining the effect of the WNT/bâ€catenin pathway on the ischemic bloodâ€brain barrier in vitro and in vivo. FASEB Journal, 2019, 33, 120.3.	0.5	0
15	O2â€12â€03: MUTATIONS IN PSEN GENES ASSOCIATED WITH FAMILIAL FORM OF ALZHEIMER'S DISEASE DISPLAY AN IMPAIRED BLOODâ€BRAIN BARRIER PHENOTYPE IN VITRO. Alzheimer's and Dementia, 2018, 14, P651.	0.8	0
16	Gliotoxin penetrates and impairs the integrity of the human blood-brain barrier in vitro. Mycotoxin Research, 2018, 34, 257-268.	2.3	37
17	Determining the effect of the WNT/bâ€catenin pathway on the ischemic bloodâ€brain barrier using induced pluripotent stem cells. FASEB Journal, 2018, 32, 40.6.	0.5	0
18	Isogenic bloodâ€“brain barrier models based on patientâ€derived stem cells display interâ€individual differences in cell maturation and functionality. Journal of Neurochemistry, 2017, 142, 74-88.	3.9	41

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19	Modeling Psychomotor Retardation using iPSCs from MCT8-Deficient Patients Indicates a Prominent Role for the Blood-Brain Barrier. Cell Stem Cell, 2017, 20, 831-843.e5.	11.1	181
20	Comparative study of expression and activity of glucose transporters between stem cell-derived brain microvascular endothelial cells and hCMEC/D3 cells. American Journal of Physiology - Cell Physiology, 2017, 313, C421-C429.	4.6	27
21	Discovery of Aromatic Carbamates that Confer Neuroprotective Activity by Enhancing Autophagy and Inducing the Anti-Apoptotic Protein B-Cell Lymphoma 2 (Bcl-2). Journal of Medicinal Chemistry, 2017, 60, 9739-9756.	6.4	32
22	In Vitro Models of the Bloodâ€"Brain Barrier to Better Understand the Pathophysiology of Brain Edema. , 2017, , 85-102.		0
23	Cerebral hypoxia/ischemia selectively disrupts tight junctions complexes in stem cell-derived human brain microvascular endothelial cells. Fluids and Barriers of the CNS, 2016, 13, 16.	5.0	64
24	Analysis of Cancer-Targeting Alkylphosphocholine Analogue Permeability Characteristics Using a Human Induced Pluripotent Stem Cell Bloodâ€"Brain Barrier Model. Molecular Pharmaceutics, 2016, 13, 3341-3349.	4.6	36
25	Growth-factor reduced Matrigel source influences stem cell derived brain microvascular endothelial cell barrier properties. Fluids and Barriers of the CNS, 2016, 13, 6.	5.0	39
26	DDEL-05DIFFERENTIAL BLOOD-BRAIN BARRIER (BBB) PERMEABILITY OF ALKYLPHOSPHOCHOLINE (APC) ANALOGS ANALYZED USING AN IN VITRO PLURIPOTENT STEM CELL-DERIVED BRAIN MICROVASCULAR ENDOTHELIAL CELL SYSTEM. Neuro-Oncology, 2015, 17, v74.1-v74.	1.2	0
27	Efficient Differentiation of Human Pluripotent Stem Cells to Endothelial Progenitors via Small-Molecule Activation of WNT Signaling. Stem Cell Reports, 2015, 4, 170.	4.8	1
28	Efficient Differentiation of Human Pluripotent Stem Cells to Endothelial Progenitors via Small-Molecule Activation of WNT Signaling. Stem Cell Reports, 2014, 3, 804-816.	4.8	271
29	Hypoxia Selectively Disrupts Brain Microvascular Endothelial Tight Junction Complexes Through a Hypoxiaâ€Inducible Factorâ€1 (HIFâ€1) Dependent Mechanism. Journal of Cellular Physiology, 2014, 229, 1096-1105.	4.1	102
30	Î±B-Crystallin: A Novel Regulator of Breast Cancer Metastasis to the Brain. Clinical Cancer Research, 2014, 20, 56-67.	7.0	87
31	A retinoic acid-enhanced, multicellular human blood-brain barrier model derived from stem cell sources. Scientific Reports, 2014, 4, 4160.	3.3	390
32	Modeling the bloodâ€"brain barrier using stem cell sources. Fluids and Barriers of the CNS, 2013, 10, 2.	5.0	105
33	Involvement of oxidative stress in hypoxia-induced bloodâ€"brain barrier breakdown. Microvascular Research, 2012, 84, 222-225.	2.5	61
34	Derivation of blood-brain barrier endothelial cells from human pluripotent stem cells. Nature Biotechnology, 2012, 30, 783-791.	17.5	623
35	HIF-1 at the Blood-Brain Barrier: A Mediator of Permeability?. High Altitude Medicine and Biology, 2012, 13, 153-161.	0.9	46
36	Perlecan Domain V Induces VEGf Secretion in Brain Endothelial Cells through Integrin Î±5Î²1 and ERK-Dependent Signaling Pathways. PLoS ONE, 2012, 7, e45257.	2.5	47

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37	Astrocytes and Pericytes Differentially Modulate Bloodâ€"Brain Barrier Characteristics during Development and Hypoxic Insult. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 693-705.	4.3	160
38	Perlecan domain V modulates astrogliosis <i>In vitro</i> and after focal cerebral ischemia through multiple receptors and increased nerve growth factor release. Glia, 2011, 59, 1822-1840.	4.9	33
39	Perlecan domain V is neuroprotective and proangiogenic following ischemic stroke in rodents. Journal of Clinical Investigation, 2011, 121, 3005-3023.	8.2	133
40	Endostatin binds nerve growth factor and thereby inhibits neurite outgrowth and neuronal migration in-vitro. Brain Research, 2010, 1360, 28-39.	2.2	18
41	Maintaining bloodâ€"brain barrier integrity: Pericytes perform better than astrocytes during prolonged oxygen deprivation. Journal of Cellular Physiology, 2009, 218, 612-622.	4.1	121
42	Quercetin and naringenin transport across human intestinal Caco-2 cells. Journal of Pharmacy and Pharmacology, 2009, 61, 1473-1483.	2.4	38
43	Transport of quercetin di-sodium salt in the human intestinal epithelial Caco-2 cell monolayer 139. European Journal of Drug Metabolism and Pharmacokinetics, 2007, 32, 139-147.	1.6	3