

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
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all docs

50
docs citations

50
times ranked

3786
citing authors

#	ARTICLE	IF	CITATIONS
1	Derivation of blood-brain barrier endothelial cells from human pluripotent stem cells. <i>Nature Biotechnology</i> , 2012, 30, 783-791.	17.5	623
2	A retinoic acid-enhanced, multicellular human blood-brain barrier model derived from stem cell sources. <i>Scientific Reports</i> , 2014, 4, 4160.	3.3	390
3	Efficient Differentiation of Human Pluripotent Stem Cells to Endothelial Progenitors via Small-Molecule Activation of WNT Signaling. <i>Stem Cell Reports</i> , 2014, 3, 804-816.	4.8	271
4	Modeling Psychomotor Retardation using iPSCs from MCT8-Deficient Patients Indicates a Prominent Role for the Blood-Brain Barrier. <i>Cell Stem Cell</i> , 2017, 20, 831-843.e5.	11.1	181
5	Astrocytes and Pericytes Differentially Modulate Blood-Brain Barrier Characteristics during Development and Hypoxic Insult. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 693-705.	4.3	160
6	Perlecan domain V is neuroprotective and proangiogenic following ischemic stroke in rodents. <i>Journal of Clinical Investigation</i> , 2011, 121, 3005-3023.	8.2	133
7	Maintaining blood-brain barrier integrity: Pericytes perform better than astrocytes during prolonged oxygen deprivation. <i>Journal of Cellular Physiology</i> , 2009, 218, 612-622.	4.1	121
8	Modeling the blood-brain barrier using stem cell sources. <i>Fluids and Barriers of the CNS</i> , 2013, 10, 2.	5.0	105
9	Hypoxia Selectively Disrupts Brain Microvascular Endothelial Tight Junction Complexes Through a Hypoxia-Inducible Factor-1 (HIF-1) Dependent Mechanism. <i>Journal of Cellular Physiology</i> , 2014, 229, 1096-1105.	4.1	102
10	Î±B-Crystallin: A Novel Regulator of Breast Cancer Metastasis to the Brain. <i>Clinical Cancer Research</i> , 2014, 20, 56-67.	7.0	87
11	Effects of glyphosate and aminomethylphosphonic acid on an isogenic model of the human blood-brain barrier. <i>Toxicology Letters</i> , 2019, 304, 39-49.	0.8	71
12	Cerebral hypoxia/ischemia selectively disrupts tight junctions complexes in stem cell-derived human brain microvascular endothelial cells. <i>Fluids and Barriers of the CNS</i> , 2016, 13, 16.	5.0	64
13	Involvement of oxidative stress in hypoxia-induced blood-brain barrier breakdown. <i>Microvascular Research</i> , 2012, 84, 222-225.	2.5	61
14	Perlecan Domain V Induces VEGf Secretion in Brain Endothelial Cells through Integrin Î±5Î²1 and ERK-Dependent Signaling Pathways. <i>PLoS ONE</i> , 2012, 7, e45257.	2.5	47
15	HIF-1 at the Blood-Brain Barrier: A Mediator of Permeability?. <i>High Altitude Medicine and Biology</i> , 2012, 13, 153-161.	0.9	46
16	Hyaluronan impairs the barrier integrity of brain microvascular endothelial cells through a CD44-dependent pathway. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1759-1775.	4.3	43
17	Isogenic blood-brain barrier models based on patient-derived stem cells display inter-individual differences in cell maturation and functionality. <i>Journal of Neurochemistry</i> , 2017, 142, 74-88.	3.9	41
18	Growth-factor reduced Matrigel source influences stem cell derived brain microvascular endothelial cell barrier properties. <i>Fluids and Barriers of the CNS</i> , 2016, 13, 6.	5.0	39

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19	Quercetin and naringenin transport across human intestinal Caco-2 cells. <i>Journal of Pharmacy and Pharmacology</i> , 2009, 61, 1473-1483.	2.4	38
20	Glitoxin penetrates and impairs the integrity of the human blood-brain barrier in vitro. <i>Mycotoxin Research</i> , 2018, 34, 257-268.	2.3	37
21	Analysis of Cancer-Targeting Alkylphosphocholine Analogue Permeability Characteristics Using a Human Induced Pluripotent Stem Cell Blood-Brain Barrier Model. <i>Molecular Pharmaceutics</i> , 2016, 13, 3341-3349.	4.6	36
22	CNS organoids: an innovative tool for neurological disease modeling and drug neurotoxicity screening. <i>Drug Discovery Today</i> , 2020, 25, 456-465.	6.4	36
23	Perlecan domain V modulates astrogliosis <i>in vitro</i> and after focal cerebral ischemia through multiple receptors and increased nerve growth factor release. <i>Glia</i> , 2011, 59, 1822-1840.	4.9	33
24	Discovery of Aromatic Carbamates that Confer Neuroprotective Activity by Enhancing Autophagy and Inducing the Anti-Apoptotic Protein B-Cell Lymphoma 2 (Bcl-2). <i>Journal of Medicinal Chemistry</i> , 2017, 60, 9739-9756.	6.4	32
25	Comparative study of expression and activity of glucose transporters between stem cell-derived brain microvascular endothelial cells and hCMEC/D3 cells. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 313, C421-C429.	4.6	27
26	Brain Delivery of a Potent Opioid Receptor Agonist, Biphalin during Ischemic Stroke: Role of Organic Anion Transporting Polypeptide (OATP). <i>Pharmaceutics</i> , 2019, 11, 467.	4.5	27
27	Oxygen-Glucose Deprivation/Reoxygenation-Induced Barrier Disruption at the Human Blood-Brain Barrier is Partially Mediated Through the HIF-1 Pathway. <i>NeuroMolecular Medicine</i> , 2019, 21, 414-431.	3.4	26
28	Presence of a mutation in PSEN1 or PSEN2 gene is associated with an impaired brain endothelial cell phenotype in vitro. <i>Fluids and Barriers of the CNS</i> , 2021, 18, 3.	5.0	25
29	LC-MS/MS-based in vitro and in vivo investigation of blood-brain barrier integrity by simultaneous quantitation of mannitol and sucrose. <i>Fluids and Barriers of the CNS</i> , 2020, 17, 61.	5.0	21
30	Endostatin binds nerve growth factor and thereby inhibits neurite outgrowth and neuronal migration in-vitro. <i>Brain Research</i> , 2010, 1360, 28-39.	2.2	18
31	Estimating Brain Permeability Using In Vitro Blood-Brain Barrier Models. <i>Methods in Molecular Biology</i> , 2020, 2367, 47-72.	0.9	17
32	An iPSC-Derived Neuron Model of CLN3 Disease Facilitates Small Molecule Phenotypic Screening. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 931-947.	4.9	14
33	Neurolysin substrates bradykinin, neurotensin and substance P enhance brain microvascular permeability in a human in vitro model. <i>Journal of Neuroendocrinology</i> , 2021, 33, e12931.	2.6	14
34	Neurological diseases at the blood-brain barrier: Stemming new scientific paradigms using patient-derived induced pluripotent cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165358.	3.8	13
35	Abeta peptides disrupt the barrier integrity and glucose metabolism of human induced pluripotent stem cell-derived brain microvascular endothelial cells. <i>NeuroToxicology</i> , 2022, 89, 110-120.	3.0	6
36	Transport of quercetin di-sodium salt in the human intestinal epithelial Caco-2 cell monolayer 139. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 2007, 32, 139-147.	1.6	3

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37	Efficient Differentiation of Human Pluripotent Stem Cells to Endothelial Progenitors via Small-Molecule Activation of WNT Signaling. <i>Stem Cell Reports</i> , 2015, 4, 170.	4.8	1
38	DDEL-05 DIFFERENTIAL BLOOD-BRAIN BARRIER (BBB) PERMEABILITY OF ALKYLPHOSPHOCHOLINE (APC) ANALOGS ANALYZED USING AN IN VITRO PLURIPOTENT STEM CELL-DERIVED BRAIN MICROVASCULAR ENDOTHELIAL CELL SYSTEM. <i>Neuro-Oncology</i> , 2015, 17, v74.1-v74.	1.2	0
39	In Vitro Models of the Blood-Brain Barrier to Better Understand the Pathophysiology of Brain Edema. , 2017, , 85-102.		0
40	O2a12a03: MUTATIONS IN PSEN GENES ASSOCIATED WITH FAMILIAL FORM OF ALZHEIMER'S DISEASE DISPLAY AN IMPAIRED BLOOD-BRAIN BARRIER PHENOTYPE IN VITRO. <i>Alzheimer's and Dementia</i> , 2018, 14, P651.	0.8	0
41	Abstract P808: The Main Peptide Substrates of Neurolysin Enhance Brain Microvascular Permeability in a Human in vitro Model. <i>Stroke</i> , 2021, 52, .	2.0	0
42	Determining the effect of the WNT/ β -catenin pathway on the ischemic blood-brain barrier using induced pluripotent stem cells. <i>FASEB Journal</i> , 2018, 32, 40.6.	0.5	0
43	Determining the effect of the WNT/ β -catenin pathway on the ischemic blood-brain barrier in vitro and in vivo. <i>FASEB Journal</i> , 2019, 33, 120.3.	0.5	0