Carola Y FÃ¶rster

List of Publications by Year
in descending order

50 papers	3,628 citations	172457 29 h-index	197818 49 g-index
50 all docs	50 docs citations	50 times ranked	5137 citing authors

#	Article	IF	Citations
1	InÂ vitro models of the bloodâ€“brain barrier: An overview of commonly used brain endothelial cell culture models and guidelines for their use. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 862-890.	4.3	588
2	Tight junctions and the modulation of barrier function in disease. Histochemistry and Cell Biology, 2008, 130, 55-70.	1.7	492
3	Differential effects of hydrocortisone and TNFÎ± on tight junction proteins in an <i>in vitro</i> model of the human bloodâ€“brain barrier. Journal of Physiology, 2008, 586, 1937-1949.	2.9	262
4	Involvement of estrogen receptor Î² in terminal differentiation of mammary gland epithelium. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15578-15583.	7.1	218
5	Occludin as direct target for glucocorticoid-induced improvement of blood-brain barrier properties in a murinein vitrosystem. Journal of Physiology, 2005, 565, 475-486.	2.9	187
6	In silico predictive model to determine vector-mediated transport properties for the blood–brain barrier choline transporter. Advances and Applications in Bioinformatics and Chemistry, 2014, 7, 23.	2.6	119
7	Glucocorticoids and endothelial cell barrier function. Cell and Tissue Research, 2014, 355, 597-605.	2.9	112
8	Claudin-5 as a Novel Estrogen Target in Vascular Endothelium. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 298-304.	2.4	101
9	Differential susceptibility of cerebral and cerebellar murine brain microvascular endothelial cells to loss of barrier properties in response to inflammatory stimuli. Journal of Neuroimmunology, 2006, 179, 37-45.	2.3	93
10	Hypoxia-Induced MicroRNA-212/132 Alter Blood-Brain Barrier Integrity Through Inhibition of Tight Junction-Associated Proteins in Human and Mouse Brain Microvascular Endothelial Cells. Translational Stroke Research, 2019, 10, 672-683.	4.2	86
11	Dexamethasone induces the expression of metalloproteinase inhibitor TIMPâ€1 in the murine cerebral vascular endothelial cell line cEND. Journal of Physiology, 2007, 580, 937-949.	2.9	84
12	Glucocorticoid effects on mouse microvascular endothelial barrier permeability are brain specific. Journal of Physiology, 2006, 573, 413-425.	2.9	80
13	Glucocorticoid Insensitivity at the Hypoxic Bloodâ€“Brain Barrier Can Be Reversed by Inhibition of the Proteasome. Stroke, 2011, 42, 1081-1089.	2.0	79
14	Tight Junctions and the Tumor Microenvironment. Current Pathobiology Reports, 2016, 4, 135-145.	3.4	70
15	Stretch and/or oxygen glucose deprivation (OGD) in an in vitro traumatic brain injury (TBI) model induces calcium alteration and inflammatory cascade. Frontiers in Cellular Neuroscience, 2015, 9, 323.	3.7	66
16	Analysing molecular polar surface descriptors to predict blood-brain barrier permeation. International Journal of Computational Biology and Drug Design, 2013, 6, 146.	0.3	65
17	Blood–brain barrier transport studies, aggregation, and molecular dynamics simulation of multiwalled carbon nanotube functionalized with fluorescein isothiocyanate. International Journal of Nanomedicine, 2015, 10, 1703.	6.7	64
18	Characterization of the ERÂ-/-mouse heart. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14234-14239.	7.1	63

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19	Glucocorticoids Increase VE-Cadherin Expression and Cause Cytoskeletal Rearrangements in Murine Brain Endothelial cEND Cells. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 1139-1149.	4.3	58
20	The pivotal role of astrocytes in an in vitro stroke model of the blood-brain barrier. Frontiers in Cellular Neuroscience, 2014, 8, 352.	3.7	57
21	Cloning and characterization of the murine claudin-5 promoter. Molecular and Cellular Endocrinology, 2009, 298, 19-24.	3.2	54
22	Glucocorticoid effects on endothelial barrier function in the murine brain endothelial cell line cEND incubated with sera from patients with multiple sclerosis. Multiple Sclerosis Journal, 2010, 16, 293-302.	3.0	50
23	Characterization, in Vivo Evaluation, and Molecular Modeling of Different Propofolâ€“Cyclodextrin Complexes To Assess Their Drug Delivery Potential at the Bloodâ€“Brain Barrier Level. Journal of Chemical Information and Modeling, 2016, 56, 1914-1922.	5.4	39
24	α-Cyclodextrin dimer complexes of dopamine and levodopa derivatives to assess drug delivery to the central nervous system: ADME and molecular docking studies. International Journal of Nanomedicine, 2012, 7, 3211.	6.7	37
25	Generation of an Immortalized Murine Brain Microvascular Endothelial Cell Line as an In Vitro Blood Brain Barrier Model. Journal of Visualized Experiments, 2012, , e4022.	0.3	37
26	Addition of NMDA-receptor antagonist MK801 during oxygen/glucose deprivation moderately attenuates the upregulation of glucose uptake after subsequent reoxygenation in brain endothelial cells. Neuroscience Letters, 2012, 506, 44-49.	2.1	37
27	Glucocorticoids regulate the human occludin gene through a single imperfect palindromic glucocorticoid response element. Molecular and Cellular Endocrinology, 2008, 295, 39-47.	3.2	36
28	Mechanisms of transcriptional activation of the mouse claudin-5 promoter by estrogen receptor alpha and beta. Molecular and Cellular Endocrinology, 2014, 392, 144-151.	3.2	32
29	Multidrug resistance protein P-gp interaction with nanoparticles (fullerenes and carbon nanotube) to assess their drug delivery potential: a theoretical molecular docking study. International Journal of Computational Biology and Drug Design, 2013, 6, 343.	0.3	31
30	Multiple protocadherins are expressed in brain microvascular endothelial cells and might play a role in tight junction protein regulation. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3391-3400.	4.3	29
31	In silico models for nanotoxicity evaluation and prediction at the blood-brain barrier level: A mini-review. Computational Toxicology, 2017, 2, 20-27.	3.3	29
32	Evaluation of the potential toxicity of unmodified and modified cyclodextrins on murine blood-brain barrier endothelial cells. Journal of Toxicological Sciences, 2016, 41, 175-184.	1.5	28
33	Increased Catecholamine Levels and Inflammatory Mediators Alter Barrier Properties of Brain Microvascular Endothelial Cells in vitro. Frontiers in Cardiovascular Medicine, 2020, 7, 73.	2.4	27
34	Lung endothelial cells strengthen, but brain endothelial cells weaken barrier properties of a human alveolar epithelium cell culture model. Differentiation, 2012, 84, 294-304.	1.9	25
35	Sevoflurane-Sulfobutylether-Î²-Cyclodextrin Complex: Preparation, Characterization, Cellular Toxicity, Molecular Modeling and Blood-Brain Barrier Transport Studies. Molecules, 2015, 20, 10264-10279.	3.8	25
36	Ionization States, Cellular Toxicity and Molecular Modeling Studies of Midazolam Complexed with Trimethyl-Î²-Cyclodextrin. Molecules, 2014, 19, 16861-16876.	3.8	24

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37	An In Vitro Model of Traumatic Brain Injury. Methods in Molecular Biology, 2018, 1717, 219-227.	0.9	22
38	Kidney Ischemia/Reperfusion Injury Induces Changes in the Drug Transporter Expression at the Bloodâ€"Brain Barrier in vivo and in vitro. Frontiers in Physiology, 2020, 11, 569881.	2.8	19
39	Multiple Antenatal Dexamethasone Treatment Alters Brain Vessel Differentiation in Newborn Mouse Pups. PLoS ONE, 2015, 10, e0136221.	2.5	14
40	The Influence of Capsaicin on the Integrity of Microvascular Endothelial Cell Monolayers. International Journal of Molecular Sciences, 2019, 20, 122.	4.1	13
41	Senescence and associated bloodâ€"brain barrier alterations in vitro. Histochemistry and Cell Biology, 2021, 156, 283-292.	1.7	13
42	Computational simulation and modeling of the bloodâ€"brain barrier pathology. Histochemistry and Cell Biology, 2018, 149, 451-459.	1.7	11
43	Scaffold Searching of FDA and EMA-Approved Drugs Identifies Lead Candidates for Drug Repurposing in Alzheimerâ€™s Disease. Frontiers in Chemistry, 2021, 9, 736509.	3.6	11
44	Neuroprotective Effects of Isosteviol Sodium in Murine Brain Capillary Cerebellar Endothelial Cells (cerebEND) After Hypoxia. Frontiers in Cellular Neuroscience, 2020, 14, 573950.	3.7	10
45	The Conspicuous Link between Ear, Brain and Heartâ€"Could Neurotrophin-Treatment of Age-Related Hearing Loss Help Prevent Alzheimerâ€™s Disease and Associated Amyloid Cardiomyopathy?. Biomolecules, 2021, 11, 900.	4.0	10
46	Pharmacokinetic Delivery and Metabolizing Rate of Nicardipine Incorporated in Hydrophilic and Hydrophobic Cyclodextrins Using Two-Compartment Mathematical Model. Scientific World Journal, The, 2013, 2013, 1-9.	2.1	8
47	Microvascular Barrier Protection by microRNA-183 via FoxO1 Repression: A Pathway Disturbed in Neuropathy and Complex Regional Pain Syndrome. Journal of Pain, 2022, 23, 967-980.	1.4	8
48	Quantitative Lipidomic Analysis of Takotsubo Syndrome Patients' Serum. Frontiers in Cardiovascular Medicine, 2022, 9, 797154.	2.4	4
49	Modeling of shotgun sequencing of DNA plasmids using experimental and theoretical approaches. BMC Bioinformatics, 2020, 21, 132.	2.6	1
50	Glucocorticoid regulation of blood brain barrier permeability. , 2006, , 34-35.		0