

# Torben Moos

## List of Publications by Year in descending order

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95  
papers

6,785  
citations

53794

45  
h-index

64796

79  
g-index

102  
all docs

102  
docs citations

102  
times ranked

8680  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel strategy for delivering Niemann-Pick type C2 proteins across the blood-brain barrier using the brain endothelial-specific AAV-BR1 virus. <i>Journal of Neurochemistry</i> , 2023, 164, 6-28.	3.9	4
2	Sortilin regulates blood-brain barrier integrity. <i>FEBS Journal</i> , 2022, 289, 1062-1079.	4.7	7
3	Transport of Transferrin Receptor-Targeted Antibodies Through the Blood-Brain Barrier for Drug Delivery to the Brain. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2022, , 527-549.	0.6	1
4	Gene therapy to the blood-brain barrier with resulting protein secretion as a strategy for treatment of Niemann Picks type C2 disease. <i>Journal of Neurochemistry</i> , 2021, 156, 290-308.	3.9	11
5	Blood-brain barrier transport using a high affinity, brain-selective VNAR antibody targeting transferrin receptor 1. <i>FASEB Journal</i> , 2021, 35, e21172.	0.5	56
6	The blood-brain barrier studied in vitro across species. <i>PLoS ONE</i> , 2021, 16, e0236770.	2.5	31
7	Post-capillary venules are the key locus for transcytosis-mediated brain delivery of therapeutic nanoparticles. <i>Nature Communications</i> , 2021, 12, 4121.	12.8	58
8	Novel Blood-Derived Extracellular Vesicle-Based Biomarkers in Alzheimer's Disease Identified by Proximity Extension Assay. <i>Biomedicines</i> , 2020, 8, 199.	3.2	18
9	Conventional Treatment of Glioblastoma Reveals Persistent CD44+ Subpopulations. <i>Molecular Neurobiology</i> , 2020, 57, 3943-3955.	4.0	12
10	Epigenetic Regulation of Ferroportin in Primary Cultures of the Rat Blood-Brain Barrier. <i>Molecular Neurobiology</i> , 2020, 57, 3526-3539.	4.0	4
11	Astrocytic expression of ZIP14 (SLC39A14) is part of the inflammatory reaction in chronic neurodegeneration with iron overload. <i>Glia</i> , 2020, 68, 1810-1823.	4.9	12
12	The Significance of the Choroid Plexus for Cerebral Iron Homeostasis. <i>Physiology in Health and Disease</i> , 2020, , 125-148.	0.3	3
13	Hepcidin Mediates Transcriptional Changes in Ferroportin mRNA in Differentiated Neuronal-Like PC12 Cells Subjected to Iron Challenge. <i>Molecular Neurobiology</i> , 2019, 56, 2362-2374.	4.0	4
14	Targeting the transferrin receptor for brain drug delivery. <i>Progress in Neurobiology</i> , 2019, 181, 101665.	5.7	204
15	Impairment of the Developing Human Brain in Iron Deficiency: Correlations to Findings in Experimental Animals and Prospects for Early Intervention Therapy. <i>Pharmaceuticals</i> , 2019, 12, 120.	3.8	19
16	Evaluation of Targeted Delivery to the Brain Using Magnetic Immunoliposomes and Magnetic Force. <i>Materials</i> , 2019, 12, 3576.	2.9	18
17	Modulating the antibody density changes the uptake and transport at the blood-brain barrier of both transferrin receptor-targeted gold nanoparticles and liposomal cargo. <i>Journal of Controlled Release</i> , 2019, 295, 237-249.	9.9	112
18	The Endo-Lysosomal System of Brain Endothelial Cells Is Influenced by Astrocytes In Vitro. <i>Molecular Neurobiology</i> , 2018, 55, 8522-8537.	4.0	11

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19	On the use of liposome controls in studies investigating the clinical potential of extracellular vesicle-based drug delivery systems – A commentary. <i>Journal of Controlled Release</i> , 2018, 269, 10-14.	9.9	66
20	Antibody affinity and valency impact brain uptake of transferrin receptor-targeted gold nanoparticles. <i>Theranostics</i> , 2018, 8, 3416-3436.	10.0	101
21	Iron deficiency and iron treatment in the fetal developing brain – a pilot study introducing an experimental rat model. <i>Reproductive Health</i> , 2018, 15, 93.	3.1	12
22	Transfection of primary brain capillary endothelial cells for protein synthesis and secretion of recombinant erythropoietin: a strategy to enable protein delivery to the brain. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 2467-2485.	5.4	12
23	Bidirectional apical–basal traffic of the cation-independent mannose-6-phosphate receptor in brain endothelial cells. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2598-2613.	4.3	23
24	Targeting transferrin receptors at the blood-brain barrier improves the uptake of immunoliposomes and subsequent cargo transport into the brain parenchyma. <i>Scientific Reports</i> , 2017, 7, 10396.	3.3	171
25	The vascular basement membrane in the healthy and pathological brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 3300-3317.	4.3	306
26	The choroid plexus as a site of damage in hemorrhagic and ischemic stroke and its role in responding to injury. <i>Fluids and Barriers of the CNS</i> , 2017, 14, 8.	5.0	35
27	Synthesis and deposition of basement membrane proteins by primary brain capillary endothelial cells in a murine model of the blood–brain barrier. <i>Journal of Neurochemistry</i> , 2017, 140, 741-754.	3.9	67
28	Geographical Variation in Antipsychotic Drug Use in Elderly Patients with Dementia: A Nationwide Study. <i>Journal of Alzheimer's Disease</i> , 2016, 54, 1183-1192.	2.6	10
29	Metal-Dependent Regulation of ATP7A and ATP7B in Fibroblast Cultures. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 68.	2.9	5
30	Evaluation of electroporation-induced adverse effects on adipose-derived stem cell exosomes. <i>Cytotechnology</i> , 2016, 68, 2125-2138.	1.6	131
31	Expression of Iron-Related Proteins at the Neurovascular Unit Supports Reduction and Reoxidation of Iron for Transport Through the Blood-Brain Barrier. <i>Molecular Neurobiology</i> , 2016, 53, 7237-7253.	4.0	81
32	Revisiting nanoparticle technology for blood–brain barrier transport: Unfolding at the endothelial gate improves the fate of transferrin receptor-targeted liposomes. <i>Journal of Controlled Release</i> , 2016, 222, 32-46.	9.9	105
33	Transfection of brain capillary endothelial cells in primary culture with defined blood–brain barrier properties. <i>Fluids and Barriers of the CNS</i> , 2015, 12, 19.	5.0	39
34	Divalent metal transporter 1 (DMT1) in the brain: implications for a role in iron transport at the blood-brain barrier, and neuronal and glial pathology. <i>Frontiers in Molecular Neuroscience</i> , 2015, 8, 19.	2.9	97
35	A Triple Culture Model of the Blood-Brain Barrier Using Porcine Brain Endothelial cells, Astrocytes and Pericytes. <i>PLoS ONE</i> , 2015, 10, e0134765.	2.5	111
36	Neurodegeneration with inflammation is accompanied by accumulation of iron and ferritin in microglia and neurons. <i>Neurobiology of Disease</i> , 2015, 81, 108-118.	4.4	87

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37	Targeted drug delivery to the brain using magnetic nanoparticles. <i>Therapeutic Delivery</i> , 2015, 6, 1145-1155.	2.2	74
38	Handling iron in restorative neuroscience. <i>Neural Regeneration Research</i> , 2015, 10, 1558.	3.0	9
39	Iron deposits in the chronically inflamed central nervous system and contributes to neurodegeneration. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 1607-1622.	5.4	124
40	A comprehensive overview of exosomes as drug delivery vehicles – Endogenous nanocarriers for targeted cancer therapy. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2014, 1846, 75-87.	7.4	430
41	Expression in Glioblastoma Multiforme. <i>Brain Pathology</i> , 2014, 24, 360-370.	4.1	28
42	Accessing Targeted Nanoparticles to the Brain: The Vascular Route. <i>Current Medicinal Chemistry</i> , 2014, 21, 4092-4099.	2.4	10
43	Targeted Antiepidermal Growth Factor Receptor (Cetuximab) Immunoliposomes Enhance Cellular Uptake <i>In Vitro</i> and Exhibit Increased Accumulation in an Intracranial Model of Glioblastoma Multiforme. <i>Journal of Drug Delivery</i> , 2013, 2013, 1-13.	2.5	46
44	Development of a Novel Lipophilic, Magnetic Nanoparticle for in Vivo Drug Delivery. <i>Pharmaceutics</i> , 2013, 5, 246-260.	4.5	14
45	Brain Delivery Systems via Mechanism Independent of Receptor-Mediated Endocytosis and Adsorptive-Mediated Endocytosis. <i>Current Pharmaceutical Biotechnology</i> , 2012, 13, 2349-2354.	1.6	16
46	Impairment of Interrelated Iron- and Copper Homeostatic Mechanisms in Brain Contributes to the Pathogenesis of Neurodegenerative Disorders. <i>Frontiers in Pharmacology</i> , 2012, 3, 169.	3.5	65
47	Chronic Vitamin C Deficiency does not Accelerate Oxidative Stress in Ageing Brains of Guinea Pigs. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2012, 110, 524-529.	2.5	24
48	Developmental iron uptake and axonal transport in the retina of the rat. <i>Molecular and Cellular Neurosciences</i> , 2011, 46, 607-613.	2.2	15
49	Gene delivery by pullulan derivatives in brain capillary endothelial cells for protein secretion. <i>Journal of Controlled Release</i> , 2011, 151, 45-50.	9.9	66
50	Heterogenous distribution of ferroportin-containing neurons in mouse brain. <i>BioMetals</i> , 2011, 24, 357-375.	4.1	48
51	Macromolecular drug transport into the brain using targeted therapy. <i>Journal of Neurochemistry</i> , 2010, 113, 1-13.	3.9	62
52	Fulminant Lymphocytic Choriomeningitis Virus-Induced Inflammation of the CNS Involves a Cytokine-Chemokine-Cytokine-Chemokine Cascade. <i>Journal of Immunology</i> , 2009, 182, 1079-1087.	0.8	37
53	Iron-Metabolism in Neurons of the Motor System of the Central Nervous System: Lessons from Iron Deficiency and Overloading Pathologies. , 2009, , 181-193.		1
54	Restricted transport of anti-transferrin receptor antibody (OX26) through the blood-brain barrier in the rat. <i>Journal of Neurochemistry</i> , 2008, 79, 119-129.	3.9	138

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55	Ubx1 is a novel co-factor of the human p97 ATPase. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 2927-2942.	2.8	42
56	VCAM-1 directed immunoliposomes selectively target tumor vasculature in vivo. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 854-863.	2.6	129
57	Oxidative stress and damage in liver, but not in brain, of fischer 344 rats subjected to dietary iron supplementation with lipid-soluble [(3,5,5-trimethylhexanoyl)ferrocene]. <i>Journal of Biochemical and Molecular Toxicology</i> , 2007, 21, 145-155.	3.0	12
58	Iron trafficking inside the brain. <i>Journal of Neurochemistry</i> , 2007, 103, 1730-1740.	3.9	363
59	Brain capillary endothelial cells mediate iron transport into the brain by segregating iron from transferrin without the involvement of divalent metal transporter 1. <i>Journal of Neurochemistry</i> , 2006, 98, 1946-1958.	3.9	79
60	P25/Tubulin polymerization promoting protein expression by myelinating oligodendrocytes of the developing rat brain. <i>Journal of Neurochemistry</i> , 2006, 99, 333-342.	3.9	50
61	Ferroportin in the Postnatal Rat Brain: Implications for Axonal Transport and Neuronal Export of Iron. <i>Seminars in Pediatric Neurology</i> , 2006, 13, 149-157.	2.0	56
62	CXCL10 Is the Key Ligand for CXCR3 on CD8+ Effector T Cells Involved in Immune Surveillance of the Lymphocytic Choriomeningitis Virus-Infected Central Nervous System. <i>Journal of Immunology</i> , 2006, 176, 4235-4243.	0.8	129
63	Age-dependent change in Vitamin C status: A phenomenon of maturation rather than of ageing. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 892-898.	4.6	32
64	Opposing Effects of CXCR3 and CCR5 Deficiency on CD8+ T Cell-Mediated Inflammation in the Central Nervous System of Virus-Infected Mice. <i>Journal of Immunology</i> , 2005, 175, 1767-1775.	0.8	47
65	p25 Stimulates $\alpha$ -Synuclein Aggregation and Is Co-localized with Aggregated $\alpha$ -Synuclein in $\alpha$ -Synucleinopathies. <i>Journal of Biological Chemistry</i> , 2005, 280, 5703-5715.	3.4	173
66	The significance of the mutated divalent metal transporter (DMT1) on iron transport into the Belgrade rat brain. <i>Journal of Neurochemistry</i> , 2004, 88, 233-245.	3.9	104
67	Efficient T-Cell Surveillance of the CNS Requires Expression of the CXC Chemokine Receptor 3. <i>Journal of Neuroscience</i> , 2004, 24, 4849-4858.	3.6	88
68	Proteasomal Inhibition by $\alpha$ -Synuclein Filaments and Oligomers. <i>Journal of Biological Chemistry</i> , 2004, 279, 12924-12934.	3.4	341
69	Targeting Anti-Transferrin Receptor Antibody (OX26) and OX26-Conjugated Liposomes to Brain Capillary Endothelial Cells Using In Situ Perfusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004, 24, 1193-1204.	4.3	146
70	Absence of prostate apoptosis response-4 protein in substantia nigra of Parkinson's disease autopsies. <i>Acta Neuropathologica</i> , 2004, 107, 23-26.	7.7	8
71	The Metabolism of Neuronal Iron and Its Pathogenic Role in Neurological Disease: Review. <i>Annals of the New York Academy of Sciences</i> , 2004, 1012, 14-26.	3.8	211
72	Delivery of transferrin and immunoglobulins to the ventricular system of the rat. <i>Frontiers in Bioscience - Landmark</i> , 2003, 8, a102-109.	3.0	8

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73	Mechanism and Developmental Changes in Iron Transport across the Blood-Brain Barrier. <i>Developmental Neuroscience</i> , 2002, 24, 106-113.	2.0	53
74	A Morphological Study of the Developmentally Regulated Transport of Iron into the Brain. <i>Developmental Neuroscience</i> , 2002, 24, 99-105.	2.0	50
75	Effect of iron status on DMT1 expression in duodenal enterocytes from $\hat{1}^{22}$ -microglobulin knockout mice. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, G687-G694.	3.4	9
76	Transferrin and transferrin receptor function in brain barrier systems. <i>Cellular and Molecular Neurobiology</i> , 2000, 20, 77-95.	3.3	313
77	CNS Wound Healing Is Severely Depressed in Metallothionein I- and II-Deficient Mice. <i>Journal of Neuroscience</i> , 1999, 19, 2535-2545.	3.6	147
78	Strongly compromised inflammatory response to brain injury in interleukin-6-deficient mice. , 1999, 25, 343-357.		171
79	Metallothionein (MT)-III: Generation of Polyclonal Antibodies, Comparison With MT-I+II in the Freeze Lesioned Rat Brain and in a Bioassay With Astrocytes, and Analysis of Alzheimer's Disease Brains. <i>Journal of Neurotrauma</i> , 1999, 16, 1115-1129.	3.4	79
80	Expression of ferritin protein and subunit mRNAs in normal and iron deficient rat brain. <i>Molecular Brain Research</i> , 1999, 65, 186-197.	2.3	36
81	Impaired Inflammatory Response to Glial Cell Death in Genetically Metallothionein-I- and -II-Deficient Mice. <i>Experimental Neurology</i> , 1999, 156, 149-164.	4.1	58
82	Strongly compromised inflammatory response to brain injury in interleukin-6-deficient mice. <i>Glia</i> , 1999, 25, 343-357.	4.9	4
83	Kinetics and distribution of [ $^{59}\text{Fe}$ - $^{125}\text{I}$ ]transferrin injected into the ventricular system of the rat. <i>Brain Research</i> , 1998, 790, 115-128.	2.2	58
84	Evidence for low molecular weight, non-transferrin-bound iron in rat brain and cerebrospinal fluid. <i>Journal of Neuroscience Research</i> , 1998, 54, 486-494.	2.9	105
85	Expression of the neuronal transferrin receptor is age dependent and susceptible to iron deficiency. <i>Journal of Comparative Neurology</i> , 1998, 398, 420-430.	1.6	77
86	Increased astrocytic expression of metallothioneins I+II in brainstem of adult rats treated with 6-aminonicotinamide. <i>Brain Research</i> , 1997, 774, 256-259.	2.2	34
87	Immunohistochemical localization of intraneuronal transferrin receptor immunoreactivity in the adult mouse central nervous system. <i>Journal of Comparative Neurology</i> , 1996, 375, 675-692.	1.6	149
88	Nerve Growth Factor Receptor Expression in Heterotransplanted Vestibular Schwannoma in Athymic Nude Mice. <i>Acta Oto-Laryngologica</i> , 1996, 116, 59-63.	0.9	13
89	Disruption of the blood-brain interface in neonatal rat neocortex induces a transient expression of metallothionein in reactive astrocytes. <i>Glia</i> , 1995, 13, 217-227.	4.9	68
90	Age-dependent uptake and retrograde axonal transport of exogenous albumin and transferrin in rat motor neurons. <i>Brain Research</i> , 1995, 672, 14-23.	2.2	18

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91	Developmental profile of non-heme iron distribution in the rat brain during ontogenesis. <i>Developmental Brain Research</i> , 1995, 87, 203-213.	1.7	30
92	Simultaneous application of Timm's sulphide silver method and immunofluorescence histochemistry. <i>Journal of Neuroscience Methods</i> , 1993, 48, 149-156.	2.5	10
93	GAP43 identifies developing muscle cells in human embryos. <i>NeuroReport</i> , 1993, 4, 1299-1302.	1.2	6
94	Retrograde axonal transport of albumin-gold complex in rat motor neurons: A light and electron microscopic study. <i>Micron and Microscopica Acta</i> , 1992, 23, 111-112.	0.2	0
95	Immunocytochemical evidence for retrograde axonal transport of exogenous albumin in adult rat brain stem motor neurons. <i>Neuroscience Letters</i> , 1991, 127, 1-4.	2.1	11