

Britta Engelhardt

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8645821/britta-engelhardt-publications-by-citations.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

229 papers	20,439 citations	77 h-index	140 g-index
254 ext. papers	23,672 ext. citations	8.2 avg, IF	7.09 L-index

#	Paper	IF	Citations
229	A mechanosensory complex that mediates the endothelial cell response to fluid shear stress. <i>Nature</i> , 2005 , 437, 426-31	50.4	1247
228	C-C chemokine receptor 6-regulated entry of TH-17 cells into the CNS through the choroid plexus is required for the initiation of EAE. <i>Nature Immunology</i> , 2009 , 10, 514-23	19.1	853
227	The anatomical and cellular basis of immune surveillance in the central nervous system. <i>Nature Reviews Immunology</i> , 2012 , 12, 623-35	36.5	638
226	The ins and outs of T-lymphocyte trafficking to the CNS: anatomical sites and molecular mechanisms. <i>Trends in Immunology</i> , 2005 , 26, 485-95	14.4	501
225	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). <i>European Journal of Immunology</i> , 2019 , 49, 1457-1973	6.1	485
224	The blood-brain and the blood-cerebrospinal fluid barriers: function and dysfunction. <i>Seminars in Immunopathology</i> , 2009 , 31, 497-511	12	467
223	Capture, crawl, cross: the T cell code to breach the blood-brain barriers. <i>Trends in Immunology</i> , 2012 , 33, 579-89	14.4	416
222	The movers and shapers in immune privilege of the CNS. <i>Nature Immunology</i> , 2017 , 18, 123-131	19.1	414
221	Endothelial cell laminin isoforms, laminins 8 and 10, play decisive roles in T cell recruitment across the blood-brain barrier in experimental autoimmune encephalomyelitis. <i>Journal of Cell Biology</i> , 2001 , 153, 933-46	7.3	380
220	Strategies to advance translational research into brain barriers. <i>Lancet Neurology</i> , 2008 , 7, 84-96	24.1	370
219	Guidelines for the use of flow cytometry and cell sorting in immunological studies. <i>European Journal of Immunology</i> , 2017 , 47, 1584-1797	6.1	359
218	Localization of claudin-3 in tight junctions of the blood-brain barrier is selectively lost during experimental autoimmune encephalomyelitis and human glioblastoma multiforme. <i>Acta Neuropathologica</i> , 2003 , 105, 586-92	14.3	347
217	Direct evidence that polysorbate-80-coated poly(butylcyanoacrylate) nanoparticles deliver drugs to the CNS via specific mechanisms requiring prior binding of drug to the nanoparticles. <i>Pharmaceutical Research</i> , 2003 , 20, 409-16	4.5	332
216	Brain barriers: Crosstalk between complex tight junctions and adherens junctions. <i>Journal of Cell Biology</i> , 2015 , 209, 493-506	7.3	294
215	Development of the blood-brain barrier. <i>Cell and Tissue Research</i> , 2003 , 314, 119-29	4.2	277
214	Mini-review: Transendothelial migration of leukocytes: through the front door or around the side of the house?. <i>European Journal of Immunology</i> , 2004 , 34, 2955-63	6.1	274
213	Molecular mechanisms involved in T cell migration across the blood-brain barrier. <i>Journal of Neural Transmission</i> , 2006 , 113, 477-85	4.3	265

212	Alpha4-integrin-VCAM-1 binding mediates G protein-independent capture of encephalitogenic T cell blasts to CNS white matter microvessels. <i>Journal of Clinical Investigation</i> , 2001 , 108, 557-65	15.9	247
211	Altered vascular permeability and early onset of experimental autoimmune encephalomyelitis in PECAM-1-deficient mice. <i>Journal of Clinical Investigation</i> , 2002 , 109, 383-392	15.9	242
210	Perivascular spaces and the two steps to neuroinflammation. <i>Journal of Neuropathology and Experimental Neurology</i> , 2008 , 67, 1113-21	3.1	228
209	Improving outcome after stroke: overcoming the translational roadblock. <i>Cerebrovascular Diseases</i> , 2008 , 25, 268-78	3.2	206
208	Novel insights into the development and maintenance of the blood-brain barrier. <i>Cell and Tissue Research</i> , 2014 , 355, 687-99	4.2	196
207	Vascular, glial, and lymphatic immune gateways of the central nervous system. <i>Acta Neuropathologica</i> , 2016 , 132, 317-38	14.3	195
206	A stable and reproducible human blood-brain barrier model derived from hematopoietic stem cells. <i>PLoS ONE</i> , 2014 , 9, e99733	3.7	190
205	Immunologic privilege in the central nervous system and the blood-brain barrier. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 13-21	7.3	188
204	Lymphocyte targeting of the central nervous system: a review of afferent and efferent CNS-immune pathways. <i>Brain Pathology</i> , 1996 , 6, 275-88	6	185
203	Multistep nature of microvascular recruitment of ex vivo-expanded embryonic endothelial progenitor cells during tumor angiogenesis. <i>Journal of Experimental Medicine</i> , 2003 , 197, 1755-65	16.6	183
202	Brain infiltration of leukocytes contributes to the pathophysiology of temporal lobe epilepsy. <i>Journal of Neuroscience</i> , 2011 , 31, 4037-50	6.6	179
201	Involvement of the choroid plexus in central nervous system inflammation. <i>Microscopy Research and Technique</i> , 2001 , 52, 112-29	2.8	179
200	VE-PTP maintains the endothelial barrier via plakoglobin and becomes dissociated from VE-cadherin by leukocytes and by VEGF. <i>Journal of Experimental Medicine</i> , 2008 , 205, 2929-45	16.6	177
199	Diapedesis of mononuclear cells across cerebral venules during experimental autoimmune encephalomyelitis leaves tight junctions intact. <i>Acta Neuropathologica</i> , 2005 , 109, 181-90	14.3	175
198	Review: leucocyte-endothelial cell crosstalk at the blood-brain barrier: a prerequisite for successful immune cell entry to the brain. <i>Neuropathology and Applied Neurobiology</i> , 2011 , 37, 24-39	5.2	174
197	A transmembrane tight junction protein selectively expressed on endothelial cells and platelets. <i>Journal of Biological Chemistry</i> , 2002 , 277, 16294-303	5.4	172
196	Differential roles for endothelial ICAM-1, ICAM-2, and VCAM-1 in shear-resistant T cell arrest, polarization, and directed crawling on blood-brain barrier endothelium. <i>Journal of Immunology</i> , 2010 , 185, 4846-55	5.3	169
195	Functional expression of the lymphoid chemokines CCL19 (ELC) and CCL 21 (SLC) at the blood-brain barrier suggests their involvement in G-protein-dependent lymphocyte recruitment into the central nervous system during experimental autoimmune encephalomyelitis. <i>European Journal of Immunology</i> , 2002 , 32, 2133-44	6.1	168

194	E- and P-Selectin Are Not Involved in the Recruitment of Inflammatory Cells Across the Blood-Brain Barrier in Experimental Autoimmune Encephalomyelitis. <i>Blood</i> , 1997 , 90, 4459-4472	2.2	158
193	The neurovascular unit as a selective barrier to polymorphonuclear granulocyte (PMN) infiltration into the brain after ischemic injury. <i>Acta Neuropathologica</i> , 2013 , 125, 395-412	14.3	156
192	Molecular anatomy and functions of the choroidal blood-cerebrospinal fluid barrier in health and disease. <i>Acta Neuropathologica</i> , 2018 , 135, 337-361	14.3	155
191	T cell interaction with ICAM-1-deficient endothelium in vitro: essential role for ICAM-1 and ICAM-2 in transendothelial migration of T cells. <i>European Journal of Immunology</i> , 1998 , 28, 3086-99	6.1	153
190	Endothelial cell activation leads to neutrophil transmigration as supported by the sequential roles of ICAM-2, JAM-A, and PECAM-1. <i>Blood</i> , 2009 , 113, 6246-57	2.2	151
189	Fluids and barriers of the CNS establish immune privilege by confining immune surveillance to a two-walled castle moat surrounding the CNS castle. <i>Fluids and Barriers of the CNS</i> , 2011 , 8, 4	7	144
188	Immune cell trafficking across the barriers of the central nervous system in multiple sclerosis and stroke. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016 , 1862, 461-71	6.9	143
187	Claudin-1, claudin-2 and claudin-11 are present in tight junctions of choroid plexus epithelium of the mouse. <i>Neuroscience Letters</i> , 2001 , 307, 77-80	3.3	142
186	Neutrophils mediate blood-spinal cord barrier disruption in demyelinating neuroinflammatory diseases. <i>Journal of Immunology</i> , 2014 , 193, 2438-54	5.3	140
185	Tight junctions in brain barriers during central nervous system inflammation. <i>Antioxidants and Redox Signaling</i> , 2011 , 15, 1285-303	8.4	140
184	Estrogen receptor signaling in T lymphocytes is required for estradiol-mediated inhibition of Th1 and Th17 cell differentiation and protection against experimental autoimmune encephalomyelitis. <i>Journal of Immunology</i> , 2011 , 187, 2386-93	5.3	138
183	Immune cell entry into the central nervous system: involvement of adhesion molecules and chemokines. <i>Journal of the Neurological Sciences</i> , 2008 , 274, 23-6	3.2	137
182	Altered vascular permeability and early onset of experimental autoimmune encephalomyelitis in PECAM-1-deficient mice. <i>Journal of Clinical Investigation</i> , 2002 , 109, 383-92	15.9	137
181	Interaction of alpha4-integrin with VCAM-1 is involved in adhesion of encephalitogenic T cell blasts to brain endothelium but not in their transendothelial migration in vitro. <i>Journal of Neuroimmunology</i> , 2000 , 102, 32-43	3.5	130
180	Immune function of the blood-brain barrier: incomplete presentation of protein (auto-)antigens by rat brain microvascular endothelium in vitro. <i>Journal of Cell Biology</i> , 1990 , 110, 1757-66	7.3	130
179	Induction of persistently demyelinated lesions in the rat following the repeated adoptive transfer of encephalitogenic T cells and demyelinating antibody. <i>Journal of Neuroimmunology</i> , 1992 , 40, 219-24	3.5	129
178	Natalizumab: targeting alpha4-integrins in multiple sclerosis. <i>Neurodegenerative Diseases</i> , 2008 , 5, 16-22.	2.3	128
177	T-cell trafficking in the central nervous system. <i>Immunological Reviews</i> , 2012 , 248, 216-27	11.3	126

176	Intracellular domain of brain endothelial intercellular adhesion molecule-1 is essential for T lymphocyte-mediated signaling and migration. <i>Journal of Immunology</i> , 2003 , 171, 2099-108	5.3	125
175	Astrocyte mediated modulation of blood-brain barrier permeability does not correlate with a loss of tight junction proteins from the cellular contacts. <i>Cell and Tissue Research</i> , 2004 , 315, 157-66	4.2	121
174	Dysferlin is a new marker for leaky brain blood vessels in multiple sclerosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2006 , 65, 855-65	3.1	120
173	T-cell interaction with ICAM-1/ICAM-2 double-deficient brain endothelium in vitro: the cytoplasmic tail of endothelial ICAM-1 is necessary for transendothelial migration of T cells. <i>Blood</i> , 2003 , 102, 3675-83	3.2	120
172	The blood-central nervous system barriers actively control immune cell entry into the central nervous system. <i>Current Pharmaceutical Design</i> , 2008 , 14, 1555-65	3.3	114
171	Culture-induced changes in blood-brain barrier transcriptome: implications for amino-acid transporters in vivo. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 1491-502	7.3	113
170	Claudin-1 induced sealing of blood-brain barrier tight junctions ameliorates chronic experimental autoimmune encephalomyelitis. <i>Acta Neuropathologica</i> , 2011 , 122, 601-14	14.3	111
169	Mouse CD99 participates in T-cell recruitment into inflamed skin. <i>Blood</i> , 2004 , 104, 3205-13	2.2	111
168	Prolonged eosinophil accumulation in allergic lung interstitium of ICAM-2 deficient mice results in extended hyperresponsiveness. <i>Immunity</i> , 1999 , 10, 9-19	32.3	107
167	Loss of astrocyte polarity marks blood-brain barrier impairment during experimental autoimmune encephalomyelitis. <i>Acta Neuropathologica</i> , 2009 , 118, 219-33	14.3	101
166	α integrin-mediated crawling on endothelial ICAM-1 and ICAM-2 is a prerequisite for transcellular neutrophil diapedesis across the inflamed blood-brain barrier. <i>Journal of Immunology</i> , 2014 , 192, 324-37	5.3	100
165	Importance of integrin LFA-1 deactivation for the generation of immune responses. <i>Journal of Experimental Medicine</i> , 2005 , 201, 1987-98	16.6	99
164	Beta1 integrins differentially control extravasation of inflammatory cell subsets into the CNS during autoimmunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 1920-5	11.5	98
163	Wiring the Vascular Network with Neural Cues: A CNS Perspective. <i>Neuron</i> , 2015 , 87, 271-96	13.9	95
162	Cell surface levels of endothelial ICAM-1 influence the transcellular or paracellular T-cell diapedesis across the blood-brain barrier. <i>European Journal of Immunology</i> , 2015 , 45, 1043-58	6.1	95
161	E- and P-selectin are not required for the development of experimental autoimmune encephalomyelitis in C57BL/6 and SJL mice. <i>Journal of Immunology</i> , 2007 , 179, 8470-9	5.3	92
160	Cell adhesion molecules on vessels during inflammation in the mouse central nervous system. <i>Journal of Neuroimmunology</i> , 1994 , 51, 199-208	3.5	90
159	Cutting edge: Natalizumab blocks adhesion but not initial contact of human T cells to the blood-brain barrier in vivo in an animal model of multiple sclerosis. <i>Journal of Immunology</i> , 2009 , 182, 5909-13	5.3	89

158	Interferon-beta stabilizes barrier characteristics of brain endothelial cells in vitro. <i>Annals of Neurology</i> , 2004 , 56, 192-205	9.4	86
157	PECAM-1/CD31 trans-homophilic binding at the intercellular junctions is independent of its cytoplasmic domain; evidence for heterophilic interaction with integrin alphavbeta3 in Cis. <i>Molecular Biology of the Cell</i> , 2000 , 11, 3109-21	3.5	86
156	Immunohistochemical localization of the murine transferrin receptor (TfR) on blood-tissue barriers using a novel anti-TfR monoclonal antibody. <i>Histochemistry and Cell Biology</i> , 1998 , 110, 63-72	2.4	81
155	T-cell brain infiltration and immature antigen-presenting cells in transgenic models of Alzheimer's disease-like cerebral amyloidosis. <i>Brain, Behavior, and Immunity</i> , 2016 , 54, 211-225	16.6	77
154	Comprehensive analysis of lymph node stroma-expressed Ig superfamily members reveals redundant and nonredundant roles for ICAM-1, ICAM-2, and VCAM-1 in lymphocyte homing. <i>Blood</i> , 2010 , 116, 915-25	2.2	77
153	Lymphocytes infiltrating the CNS during inflammation display a distinctive phenotype and bind to VCAM-1 but not to MAdCAM-1. <i>International Immunology</i> , 1995 , 7, 481-91	4.9	77
152	Distinct molecular composition of blood and lymphatic vascular endothelial cell junctions establishes specific functional barriers within the peripheral lymph node. <i>European Journal of Immunology</i> , 2008 , 38, 2142-55	6.1	75
151	Alpha4beta1 integrin mediates the recruitment of immature dendritic cells across the blood-brain barrier during experimental autoimmune encephalomyelitis. <i>Journal of Immunology</i> , 2010 , 184, 7196-206	5.3	74
150	Loss of astrocyte polarization upon transient focal brain ischemia as a possible mechanism to counteract early edema formation. <i>Glia</i> , 2012 , 60, 1646-59	9	73
149	Comparison of immortalized bEnd5 and primary mouse brain microvascular endothelial cells as in vitro blood-brain barrier models for the study of T cell extravasation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 315-27	7.3	73
148	PECAM-1 Stabilizes Blood-Brain Barrier Integrity and Favors Paracellular T-Cell Diapedesis Across the Blood-Brain Barrier During Neuroinflammation. <i>Frontiers in Immunology</i> , 2019 , 10, 711	8.4	72
147	Platelet endothelial cell adhesion molecule-1 modulates endothelial cell motility through the small G-protein Rho. <i>FASEB Journal</i> , 2003 , 17, 1458-69	0.9	71
146	Ultrastructural localization of adhesion molecules in the healthy and inflamed choroid plexus of the mouse. <i>Cell and Tissue Research</i> , 1999 , 296, 259-69	4.2	71
145	Current multiple sclerosis treatments have improved our understanding of MS autoimmune pathogenesis. <i>European Journal of Immunology</i> , 2016 , 46, 2078-90	6.1	71
144	Wnt activation of immortalized brain endothelial cells as a tool for generating a standardized model of the blood brain barrier in vitro. <i>PLoS ONE</i> , 2013 , 8, e70233	3.7	70
143	P-selectin glycoprotein ligand 1 is not required for the development of experimental autoimmune encephalomyelitis in SJL and C57BL/6 mice. <i>Journal of Immunology</i> , 2005 , 175, 1267-75	5.3	68
142	Caveolin-1 opens endothelial cell junctions by targeting catenins. <i>Cardiovascular Research</i> , 2012 , 93, 130-40	4.9	66
141	Immunosurveillance modelled in vitro: naive and memory T cells spontaneously migrate across unstimulated microvascular endothelium. <i>International Immunology</i> , 1997 , 9, 435-50	4.9	66

140	Intravascular Inflammation Triggers Intracerebral Activated Microglia and Contributes to Secondary Brain Injury After Experimental Subarachnoid Hemorrhage (eSAH). <i>Translational Stroke Research</i> , 2017 , 8, 144-156	7.8	65
139	The circumventricular organs participate in the immunopathogenesis of experimental autoimmune encephalomyelitis. <i>Cerebrospinal Fluid Research</i> , 2005 , 2, 8		64
138	Encephalitogenic T cells use LFA-1 for transendothelial migration but not during capture and initial adhesion strengthening in healthy spinal cord microvessels in vivo. <i>European Journal of Immunology</i> , 2002 , 32, 3598-606	6.1	63
137	Migration of T cells in vivo: molecular mechanisms and clinical implications. <i>Annals of Internal Medicine</i> , 2001 , 135, 279-95	8	62
136	Neutrophil recruitment limited by high-affinity bent β integrin binding ligand in cis. <i>Nature Communications</i> , 2016 , 7, 12658	17.4	58
135	Adhesion molecule phenotype of T lymphocytes in inflamed CNS. <i>Journal of Neuroimmunology</i> , 1998 , 84, 92-104	3.5	58
134	T cell interaction with ICAM-1-deficient endothelium in vitro: transendothelial migration of different T cell populations is mediated by endothelial ICAM-1 and ICAM-2. <i>International Immunology</i> , 1999 , 11, 1527-39	4.9	58
133	Regulation of immune cell entry into the central nervous system. <i>Results and Problems in Cell Differentiation</i> , 2006 , 43, 259-80	1.4	56
132	Gene and protein expression profiling of human cerebral endothelial cells activated with tumor necrosis factor-alpha. <i>Molecular Brain Research</i> , 2003 , 115, 130-46		56
131	T cell migration into the central nervous system during health and disease: Different molecular keys allow access to different central nervous system compartments. <i>Clinical and Experimental Neuroimmunology</i> , 2010 , 1, 79-93	0.4	55
130	Dual role of ALCAM in neuroinflammation and blood-brain barrier homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E524-E533	11.5	53
129	IL-6 transsignalling modulates the early effector phase of EAE and targets the blood-brain barrier. <i>Journal of Neuroimmunology</i> , 2008 , 205, 64-72	3.5	52
128	The choroid plexus is a key cerebral invasion route for T cells after stroke. <i>Acta Neuropathologica</i> , 2017 , 134, 851-868	14.3	49
127	Structure and Junctional Complexes of Endothelial, Epithelial and Glial Brain Barriers. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	48
126	ICAMs support B cell interactions with T follicular helper cells and promote clonal selection. <i>Journal of Experimental Medicine</i> , 2017 , 214, 3435-3448	16.6	47
125	Flotillins interact with PSGL-1 in neutrophils and, upon stimulation, rapidly organize into membrane domains subsequently accumulating in the uropod. <i>PLoS ONE</i> , 2009 , 4, e5403	3.7	47
124	Claudin-3-deficient C57BL/6J mice display intact brain barriers. <i>Scientific Reports</i> , 2019 , 9, 203	4.9	46
123	Mode of action of claudin peptidomimetics in the transient opening of cellular tight junction barriers. <i>Biomaterials</i> , 2015 , 54, 9-20	15.6	46

122	Functions of lipid raft membrane microdomains at the blood-brain barrier. <i>Journal of Molecular Medicine</i> , 2009 , 87, 765-74	5.5	46
121	Interaction of T lymphocytes with cerebral endothelial cells in vitro. <i>Brain Pathology</i> , 1991 , 1, 107-14	6	46
120	Immune cell trafficking across the blood-brain barrier in the absence and presence of neuroinflammation. <i>Vascular Biology (Bristol, England)</i> , 2020 , 2, H1-H18	2.9	44
119	Disruption of epithelial tight junctions is prevented by cyclic nucleotide-dependent protein kinase inhibitors. <i>Histochemistry and Cell Biology</i> , 2000 , 113, 349-61	2.4	44
118	Ischemia-reperfusion injury in stroke: impact of the brain barriers and brain immune privilege on neutrophil function. <i>Therapeutic Advances in Neurological Disorders</i> , 2018 , 11, 1756286418794184	6.6	44
117	Live cell imaging techniques to study T cell trafficking across the blood-brain barrier in vitro and in vivo. <i>Fluids and Barriers of the CNS</i> , 2013 , 10, 7	7	41
116	The heparan sulfate proteoglycan agrin contributes to barrier properties of mouse brain endothelial cells by stabilizing adherens junctions. <i>Cell and Tissue Research</i> , 2014 , 358, 465-79	4.2	41
115	Enhanced T cell transmigration across the murine liver sinusoidal endothelium is mediated by transcytosis and surface presentation of chemokines. <i>Hepatology</i> , 2008 , 48, 1262-72	11.2	41
114	Kindlin-3 regulates integrin activation and adhesion reinforcement of effector T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 17005-10	11.5	40
113	Interferon-beta stabilizes barrier characteristics of the blood-brain barrier in four different species in vitro. <i>Multiple Sclerosis Journal</i> , 2008 , 14, 843-52	5	40
112	DARC shuttles inflammatory chemokines across the blood-brain barrier during autoimmune central nervous system inflammation. <i>Brain</i> , 2014 , 137, 1454-69	11.2	39
111	ALCAM (CD166) is involved in extravasation of monocytes rather than T cells across the blood-brain barrier. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 2894-2909	7.3	39
110	Brain-released alarmins and stress response synergize in accelerating atherosclerosis progression after stroke. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	37
109	Glycosylation processing inhibition by castanospermine prevents experimental autoimmune encephalomyelitis by interference with IL-2 receptor signal transduction. <i>Journal of Neuroimmunology</i> , 2002 , 132, 1-10	3.5	37
108	Investigation of leptomeningeal enhancement in MS: a postcontrast FLAIR MRI study. <i>Neurology</i> , 2015 , 84, 770-5	6.5	36
107	Going against the tide--how encephalitogenic T cells breach the blood-brain barrier. <i>Journal of Vascular Research</i> , 2012 , 49, 497-509	1.9	35
106	Migration of encephalitogenic CD8 T cells into the central nervous system is dependent on the α 4 β 1-integrin. <i>European Journal of Immunology</i> , 2015 , 45, 3302-12	6.1	34
105	Endogenous estrogens, through estrogen receptor α constrain autoimmune inflammation in female mice by limiting CD4 ⁺ T-cell homing into the CNS. <i>European Journal of Immunology</i> , 2010 , 40, 3489-98	6.1	34

104	Immunotherapy of experimental autoimmune encephalomyelitis (EAE): differential effect of anti-IL-2 receptor antibody therapy on actively induced and T-line mediated EAE of the Lewis rat. <i>Journal of Autoimmunity</i> , 1989 , 2, 61-73	15.5	33
103	Claudin-12 is not required for blood-brain barrier tight junction function. <i>Fluids and Barriers of the CNS</i> , 2019 , 16, 30	7	31
102	PSGL-1 and E/P-selectins are essential for T-cell rolling in inflamed CNS microvessels but dispensable for initiation of EAE. <i>European Journal of Immunology</i> , 2014 , 44, 2287-94	6.1	31
101	A silicon nanomembrane platform for the visualization of immune cell trafficking across the human blood-brain barrier under flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 395-410	7.3	31
100	Gene and protein expression profiling of the microvascular compartment in experimental autoimmune encephalomyelitis in C57BL/6 and SJL mice. <i>Brain Pathology</i> , 2005 , 15, 1-16	6	30
99	Cell surface bound and soluble adhesion molecules in CSF and blood in multiple sclerosis: correlation with MRI-measures of subclinical disease severity and activity. <i>Journal of Neuroimmunology</i> , 2002 , 122, 175-85	3.5	30
98	Postarrest stalling rather than crawling favors CD8(+) over CD4(+) T-cell migration across the blood-brain barrier under flow in vitro. <i>European Journal of Immunology</i> , 2016 , 46, 2187-203	6.1	30
97	Inhibition and deficiency of the immunoproteasome subunit LMP7 attenuates LCMV-induced meningitis. <i>European Journal of Immunology</i> , 2016 , 46, 104-13	6.1	30
96	Human CD4 T cell subsets differ in their abilities to cross endothelial and epithelial brain barriers in vitro. <i>Fluids and Barriers of the CNS</i> , 2020 , 17, 3	7	28
95	Soluble and cell surface ICAM-1 as markers for disease activity in multiple sclerosis. <i>Acta Neurologica Scandinavica</i> , 1998 , 98, 102-9	3.8	28
94	The LPS receptor, CD14, in experimental autoimmune encephalomyelitis and multiple sclerosis. <i>Cellular Physiology and Biochemistry</i> , 2006 , 17, 167-72	3.9	28
93	Brain endothelial PPARGamma controls inflammation-induced CD4+ T cell adhesion and transmigration in vitro. <i>Journal of Neuroimmunology</i> , 2007 , 190, 34-43	3.5	25
92	Serum cytokine levels do not correlate with disease activity and severity assessed by brain MRI in multiple sclerosis. <i>Acta Neurologica Scandinavica</i> , 2002 , 105, 300-8	3.8	25
91	Polyoma virus middle-T-transformed PECAM-1 deficient mouse brain endothelial cells proliferate rapidly in culture and form hemangiomas in mice. <i>Journal of Cellular Physiology</i> , 2005 , 202, 230-9	7	25
90	Therapeutic targeting of alpha 4-integrins in chronic inflammatory diseases: tipping the scales of risk towards benefit?. <i>European Journal of Immunology</i> , 2005 , 35, 2268-73	6.1	24
89	Novel oxazolo-oxazole derivatives of FTY720 reduce endothelial cell permeability, immune cell chemotaxis and symptoms of experimental autoimmune encephalomyelitis in mice. <i>Neuropharmacology</i> , 2014 , 85, 314-27	5.5	23
88	Junctional adhesion molecule (JAM)-C deficient C57BL/6 mice develop a severe hydrocephalus. <i>PLoS ONE</i> , 2012 , 7, e45619	3.7	23
87	Effect of interferon-beta and atorvastatin on Th1/Th2 cytokines in multiple sclerosis. <i>Neurochemistry International</i> , 2008 , 53, 17-21	4.4	22

86	TET inducible expression of the 47 -integrin ligand MAdCAM-1 on the blood-brain barrier does not influence the immunopathogenesis of experimental autoimmune encephalomyelitis. <i>European Journal of Immunology</i> , 2011 , 41, 813-21	6.1	21
85	Migration of immature mouse DC across resting endothelium is mediated by ICAM-2 but independent of beta2-integrins and murine DC-SIGN homologues. <i>European Journal of Immunology</i> , 2006 , 36, 2781-94	6.1	21
84	A Novel Cervical Spinal Cord Window Preparation Allows for Two-Photon Imaging of T-Cell Interactions with the Cervical Spinal Cord Microvasculature during Experimental Autoimmune Encephalomyelitis. <i>Frontiers in Immunology</i> , 2017 , 8, 406	8.4	20
83	Deficiency of Factor VII activating protease alters the outcome of ischemic stroke in mice. <i>European Journal of Neuroscience</i> , 2015 , 41, 965-75	3.5	20
82	Inducible endothelial cell-specific gene expression in transgenic mouse embryos and adult mice. <i>Experimental Cell Research</i> , 2008 , 314, 1202-16	4.2	20
81	Advancing human induced pluripotent stem cell-derived blood-brain barrier models for studying immune cell interactions. <i>FASEB Journal</i> , 2020 , 34, 16693-16715	0.9	19
80	Refined clinical scoring in comparative EAE studies does not enhance the chance to observe statistically significant differences. <i>European Journal of Immunology</i> , 2016 , 46, 2481-2483	6.1	19
79	Modeling immune functions of the mouse blood-cerebrospinal fluid barrier in vitro: primary rather than immortalized mouse choroid plexus epithelial cells are suited to study immune cell migration across this brain barrier. <i>Fluids and Barriers of the CNS</i> , 2016 , 13, 2	7	18
78	Angiopoietin-2 blockade ameliorates autoimmune neuroinflammation by inhibiting leukocyte recruitment into the CNS. <i>Journal of Clinical Investigation</i> , 2020 , 130, 1977-1990	15.9	17
77	Impaired T-cell migration to the CNS under fingolimod and dimethyl fumarate. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2017 , 4, e401	9.1	16
76	L-Selectin-deficient SJL and C57BL/6 mice are not resistant to experimental autoimmune encephalomyelitis. <i>European Journal of Immunology</i> , 2008 , 38, 2156-67	6.1	16
75	Soluble and cell surface ICAM-3 in blood and cerebrospinal fluid of patients with multiple sclerosis: influence of methylprednisolone treatment and relevance as markers for disease activity. <i>Acta Neurologica Scandinavica</i> , 2000 , 101, 135-9	3.8	16
74	E- and P-Selectin Are Not Involved in the Recruitment of Inflammatory Cells Across the Blood-Brain Barrier in Experimental Autoimmune Encephalomyelitis. <i>Blood</i> , 1997 , 90, 4459-4472	2.2	16
73	Contribution of brain pericytes in blood-brain barrier formation and maintenance: a transcriptomic study of cocultured human endothelial cells derived from hematopoietic stem cells. <i>Fluids and Barriers of the CNS</i> , 2020 , 17, 48	7	16
72	Sphingosine kinase 2 deficient mice exhibit reduced experimental autoimmune encephalomyelitis: Resistance to FTY720 but not ST-968 treatments. <i>Neuropharmacology</i> , 2016 , 105, 341-350	5.5	16
71	Interferon-beta 1b leads to a short-term increase of soluble but long-term stabilisation of cell surface bound adhesion molecules in multiple sclerosis. <i>Journal of Neurology</i> , 2004 , 251, 464-72	5.5	15
70	Lack of junctional adhesion molecule (JAM)-B ameliorates experimental autoimmune encephalomyelitis. <i>Brain, Behavior, and Immunity</i> , 2018 , 73, 3-20	16.6	14
69	Non-invasive near-infrared fluorescence imaging of the neutrophil response in a mouse model of transient cerebral ischaemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 2833-2847	7.3	14

68	Therapeutic targeting of leukocyte trafficking across the blood-brain barrier. <i>Inflammation and Allergy: Drug Targets</i> , 2007 , 6, 210-22		14
67	CD31 (PECAM-1) Serves as the Endothelial Cell-Specific Receptor of Clostridium perfringens ET toxin. <i>Cell Host and Microbe</i> , 2020 , 28, 69-78.e6	23.4	13
66	Neuroscience. Blood-brain barrier differentiation. <i>Science</i> , 2011 , 334, 1652-3	33.3	13
65	Development of the Blood-Brain Barrier 1995 , 11-31		13
64	T Cell-Mediated Transport of Polymer Nanoparticles across the Blood-Brain Barrier. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001375	10.1	13
63	Intercellular Adhesion Molecule-1 (ICAM-1) and ICAM-2 Differentially Contribute to Peripheral Activation and CNS Entry of Autoaggressive Th1 and Th17 Cells in Experimental Autoimmune Encephalomyelitis. <i>Frontiers in Immunology</i> , 2019 , 10, 3056	8.4	12
62	Role of glucocorticoids on T cell recruitment across the blood-brain barrier. <i>Zeitschrift Fur Rheumatologie</i> , 2000 , 59 Suppl 2, II/18-21	1.9	12
61	Lung ICAM-1 and ICAM-2 support spontaneous intravascular effector lymphocyte entrapment but are not required for neutrophil entrapment or emigration inside endotoxin-inflamed lungs. <i>FASEB Journal</i> , 2016 , 30, 1767-78	0.9	12
60	ICAM-1 C57BL/6 Mice Are Not Protected from Experimental Ischemic Stroke. <i>Translational Stroke Research</i> , 2018 , 9, 608-621	7.8	11
59	Leptomeningeal contrast enhancement and blood-CSF barrier dysfunction in aseptic meningitis. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2015 , 2, e164	9.1	11
58	Detection of endothelial/lymphocyte interaction in spinal cord microvasculature by intravital videomicroscopy. <i>Methods in Molecular Medicine</i> , 2003 , 89, 83-93		11
57	CD45RA+ ICAM-3+ lymphocytes in cerebrospinal fluid and blood as markers of disease activity in patients with multiple sclerosis. <i>Acta Neurologica Scandinavica</i> , 2000 , 102, 326-32	3.8	11
56	Brain endothelial tricellular junctions as novel sites for T cell diapedesis across the blood-brain barrier. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	11
55	Pro-resolving lipid mediator lipoxin A attenuates neuro-inflammation by modulating T cell responses and modifies the spinal cord lipidome. <i>Cell Reports</i> , 2021 , 35, 109201	10.6	11
54	Frequency and clinical characteristics of Multiple Sclerosis rebounds after withdrawal of Fingolimod. <i>CNS Neuroscience and Therapeutics</i> , 2018 , 24, 984-986	6.8	10
53	PSGL-1 is dispensible for the development of active experimental autoimmune encephalomyelitis in SJL/J mice. <i>Journal of Neuroimmunology</i> , 2011 , 232, 207-8	3.5	9
52	Influence of corticosteroids on neutrophils, lymphocytes, their subsets, and T-cell activity markers in patients with active rheumatoid arthritis, compared to healthy controls. <i>Annals of the New York Academy of Sciences</i> , 1999 , 876, 198-200	6.5	9
51	Transfer of the sFLT-1 gene in Morris hepatoma results in decreased growth and perfusion and induction of genes associated with stress response. <i>Clinical Cancer Research</i> , 2005 , 11, 2132-40	12.9	8

50	Selective Endocannabinoid Reuptake Inhibitor WOBE437 Reduces Disease Progression in a Mouse Model of Multiple Sclerosis. <i>ACS Pharmacology and Translational Science</i> , 2021 , 4, 765-779	5.9	8
49	TNF β blockade mediates bone protection in antigen-induced arthritis by reducing osteoclast precursor supply. <i>Bone</i> , 2018 , 107, 56-65	4.7	8
48	CD49d/CD29-integrin controls the accumulation of plasmacytoid dendritic cells into the CNS during neuroinflammation. <i>European Journal of Immunology</i> , 2019 , 49, 2030-2043	6.1	7
47	Sleep enhances numbers and function of monocytes and improves bacterial infection outcome in mice. <i>Brain, Behavior, and Immunity</i> , 2020 , 87, 329-338	16.6	7
46	Angiostatin overexpression in Morris hepatoma results in decreased tumor growth but increased perfusion and vascularization. <i>Journal of Nuclear Medicine</i> , 2006 , 47, 543-51	8.9	7
45	Advancing brain barriers RNA sequencing: guidelines from experimental design to publication. <i>Fluids and Barriers of the CNS</i> , 2020 , 17, 51	7	6
44	CD45RA+ ICAM-3+ lymphocytes in interferon-beta1b-treated and -untreated patients with relapsing-remitting multiple sclerosis. <i>Acta Neurologica Scandinavica</i> , 2004 , 110, 377-85	3.8	5
43	Lysis of rat brain microvascular endothelial cells mediated by resting but not activated MBP-specific CD4+ T cell lines. <i>Journal of Neuroimmunology</i> , 1994 , 55, 69-80	3.5	5
42	Wnt signaling mediates acquisition of blood-brain barrier properties in naïve endothelium derived from human pluripotent stem cells. <i>ELife</i> , 2021 , 10,	8.9	5
41	Morpholino Analogues of Fingolimod as Novel and Selective S1P Ligands with In Vivo Efficacy in a Mouse Model of Experimental Antigen-Induced Encephalomyelitis. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
40	Novel compounds with dual S1P receptor agonist and histamine H receptor antagonist activities act protective in a mouse model of multiple sclerosis. <i>Neuropharmacology</i> , 2021 , 186, 108464	5.5	5
39	Distinct migratory pattern of naive and effector T cells through the blood-CSF barrier following Echovirus 30 infection. <i>Journal of Neuroinflammation</i> , 2019 , 16, 232	10.1	5
38	T cell interaction with ICAM-1-deficient endothelium in vitro: essential role for ICAM-1 and ICAM-2 in transendothelial migration of T cells 1998 , 28, 3086		5
37	Development of the Blood-Brain Interface		5
36	Pharmacological Inhibition of Acid Sphingomyelinase Ameliorates Experimental Autoimmune Encephalomyelitis. <i>NeuroSignals</i> , 2019 , 27, 20-31	1.9	4
35	How Does the Immune System Enter the Brain?. <i>Frontiers in Immunology</i> , 2022 , 13, 805657	8.4	4
34	Visualizing Impairment of the Endothelial and Glial Barriers of the Neurovascular Unit during Experimental Autoimmune Encephalomyelitis In Vivo. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	3
33	VivoFollow 2: Distortion-Free Multiphoton Intravital Imaging. <i>Frontiers in Physics</i> , 2020 , 7,	3.9	3

32	Immune cell migration across the bloodBrain barrier: molecular mechanisms and therapeutic targeting. <i>Future Neurology</i> , 2006 , 1, 47-56	1.5	3
31	Foreword. <i>Microscopy Research and Technique</i> , 2001 , 52, 1	2.8	3
30	Development of the BloodBrain Barrier 2005 , 1-26		3
29	Preclinical testing of strategies for therapeutic targeting of human T-cell trafficking in vivo. <i>Methods in Molecular Biology</i> , 2010 , 616, 268-81	1.4	3
28	Histone deacetylase 1 controls CD4 T cell trafficking in autoinflammatory diseases. <i>Journal of Autoimmunity</i> , 2021 , 119, 102610	15.5	3
27	Nano-scale architecture of blood-brain barrier tight-junctions.. <i>ELife</i> , 2021 , 10,	8.9	3
26	The Genetic Background of Mice Influences the Effects of Cigarette Smoke on Onset and Severity of Experimental Autoimmune Encephalomyelitis. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	2
25	Oligomeric Forms of Human Amyloid-Beta(1-42) Inhibit Antigen Presentation. <i>Frontiers in Immunology</i> , 2020 , 11, 1029	8.4	2
24	Investigation of Molecular Mechanisms Involved in T Lymphocyte Recruitment across the Blood-Spinal Cord and Brain Barriers in Health and Disease 2004 , 19-31		2
23	The Blood-Brain Barrier in EAE 2005 , 415-449		2
22	Differentiation of human pluripotent stem cells to brain microvascular endothelial cell-like cells suitable to study immune cell interactions. <i>STAR Protocols</i> , 2021 , 2, 100563	1.4	2
21	Covalent and Noncovalent Conjugation of Degradable Polymer Nanoparticles to T Lymphocytes. <i>Biomacromolecules</i> , 2021 , 22, 3416-3430	6.9	2
20	ACKR1 favors transcellular over paracellular T-cell diapedesis across the blood-brain barrier in neuroinflammation in vitro. <i>European Journal of Immunology</i> , 2021 ,	6.1	2
19	Mechanisms of Leukocyte Transmigration: Role of Immunoglobulin Superfamily Molecules 2006 , 82-108		1
18	FACS Analysis of Endothelial Cells 2004 , 157-165		1
17	Functional relevance of the multi-drug transporter abcg2 on teriflunomide therapy in an animal model of multiple sclerosis. <i>Journal of Neuroinflammation</i> , 2020 , 17, 9	10.1	1
16	Maternal Infection Impairs Fetal Brain Development via Choroid Plexus Inflammation. <i>Developmental Cell</i> , 2020 , 55, 519-521	10.2	1
15	Brain Barriers and Multiple Sclerosis: Novel Treatment Approaches from a Brain Barriers Perspective. <i>Handbook of Experimental Pharmacology</i> , 2020 , 1	3.2	1

14	Direct In Vivo Evidence for α -Integrin Mediated Interaction of Encephalitogenic T Cell Blasts with Endothelial VCAM-1 in the Spinal Cord White Matter Using Intravital Fluorescence Videomicroscopy 2001 , 233-241		1
13	Innovative high-resolution microCT imaging of animal brain vasculature. <i>Brain Structure and Function</i> , 2020 , 225, 2885-2895	4	o
12	Novel MHC-Independent TCRs Specific for CD48, CD102, and CD155 Self-Proteins and Their Selection in the Thymus. <i>Frontiers in Immunology</i> , 2020 , 11, 1216	8.4	o
11	Microglia Get a Little Help from "Th"-eir Friends. <i>Immunity</i> , 2020 , 53, 484-486	32.3	o
10	Loss of Claudin-3 Impairs Hepatic Metabolism, Biliary Barrier Function, and Cell Proliferation in the Murine Liver. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021 , 12, 745-767	7.9	o
9	Biotin-NeutrAvidin Mediated Immobilization of Polymer Micro- and Nanoparticles on T Lymphocytes. <i>Bioconjugate Chemistry</i> , 2021 , 32, 541-552	6.3	o
8	The brain barriers as therapeutic targets in neuroinflammation. <i>Drug Research</i> , 2013 , 63 Suppl 1, S5	1.8	
7	Negotiating the brain barriers:35-46		
6	Adhesion and Signalling Molecules Controlling the Extravasation of Leukocytes across the Endothelium. <i>Transfusion Medicine and Hemotherapy</i> , 2008 , 35, 73-75	4.2	
5	The Endothelial Cell Basement Membrane and Its Role in Leukocyte Extravasation 2006 , 109-127		
4	In Vitro Transendothelial Migration Assay 2006 , 424-436		
3	Integrins as Therapeutic Targets for Inflammatory Disease 2006 , 338-370		
2	Mechanism of Inflammation: Activation of the Endothelium 2006 , 300-335		
1	Soluble and Cell Surface Bound Adhesion Molecules in Blood and Cerebrospinal Fluid as Diagnostic Markers and Parameters for Disease Activity, Disease Severity and Treatment Efficacy in Patients with Multiple Sclerosis. Lösliche und Zelloberflächen-gebundene Adhäsionsmoleküle in Blut und Liquor cerebrospinalis als diagnostische Marker und Parameter für Aktivität und Schwere der Erkrankung sowie Behandlungseffektivität bei Patienten mit Multipler Sklerose. <i>Laboratoriums Medizin</i> , 2001 , 25, 548-556		