

CITATION REPORT

List of articles citing

Blood-brain barrier breakdown in Alzheimer disease and other neurodegenerative disorders

DOI: 10.1038/nrneurol.2017.188

Nature Reviews Neurology, 2018, 14, 133-150.

Source: <https://exaly.com/paper-pdf/69048160/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. 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.

#	Paper	IF	Citations
1370	Bridging barriers: a comparative look at the blood-brain barrier across organisms. 2018 , 32, 466-478		97
1369	Understanding the role of the perivascular space in cerebral small vessel disease. 2018 , 114, 1462-1473		108
1368	Blood-brain barrier dysfunction in immuno-mediated neurological diseases. 2018 , 41, 120-128		37
1367	Microbiome-Derived Lipopolysaccharide (LPS) Selectively Inhibits Neurofilament Light Chain (NF-L) Gene Expression in Human Neuronal-Glial (HNG) Cells in Primary Culture. 2018 , 12, 896		13
1366	Advances and challenges in geroscience research: An update. 2018 , 105, 298-308		21
1365	Peripheral Inflammation Enhances Microglia Response and Nigral Dopaminergic Cell Death in an MPTP Model of Parkinson's Disease. 2018 , 12, 398		34
1364	The Neuroprotective Effects of Exercise: Maintaining a Healthy Brain Throughout Aging. 2018 , 4, 17-52		56
1363	Soluble Fibrinogen Triggers Non-cell Autonomous ER Stress-Mediated Microglial-Induced Neurotoxicity. 2018 , 12, 404		10
1362	IL-17A contributes to perioperative neurocognitive disorders through blood-brain barrier disruption in aged mice. 2018 , 15, 332		36
1361	Prolonged systemic hyperglycemia does not cause pericyte loss and permeability at the mouse blood-brain barrier. 2018 , 8, 17462		13
1360	Role of Microbes in the Development of Alzheimer's Disease: State of the Art - An International Symposium Presented at the 2017 IAGG Congress in San Francisco. 2018 , 9, 362		56
1359	Critical role of mitosis in spontaneous late-onset Alzheimer's disease; from a Shugoshin 1 cohesinopathy mouse model. 2018 , 17, 2321-2334		5
1358	Alzheimer's disease (AD) therapeutics - 2: Beyond amyloid - Re-defining AD and its causality to discover effective therapeutics. 2018 , 158, 376-401		20
1357	The role of brain vasculature in neurodegenerative disorders. 2018 , 21, 1318-1331		338
1356	Triphenyl Phosphate (TPHP)-Induced Neurotoxicity in Adult Male Chinese Rare Minnows (<i>Gobiocypris rarus</i>). 2018 , 52, 11895-11903		8
1355	The Fountain of Youth: It's All in Our Veins. 2018 , 100, 9-11		1
1354	Modelling Sporadic Alzheimer's Disease Using Induced Pluripotent Stem Cells. 2018 , 43, 2179-2198		18

1353	The Meningeal Lymphatic System: A New Player in Neurophysiology. 2018 , 100, 375-388	175
1352	Blood-brain barrier-associated pericytes internalize and clear aggregated amyloid- β 2 by LRP1-dependent apolipoprotein E isoform-specific mechanism. 2018 , 13, 57	94
1351	Enhanced uptake of gH625 by blood brain barrier compared to liver in vivo: characterization of the mechanism by an in vitro model and implications for delivery. 2018 , 8, 13836	8
1350	Immunogenetic Factors of Neurodegenerative Diseases: The Role of HLA Class II. 2018 , 83, 1104-1116	16
1349	The "Frail" Brain Blood Barrier in Neurodegenerative Diseases: Role of Early Disruption of Endothelial Cell-to-Cell Connections. 2018 , 19,	36
1348	Effect of tryptase on mouse brain microvascular endothelial cells via protease-activated receptor 2. 2018 , 15, 248	19
1347	Hyperfibrinogenemia-mediated astrocyte activation. 2018 , 1699, 158-165	7
1346	In vivo imaging and analysis of cerebrovascular hemodynamic responses and tissue oxygenation in the mouse brain. 2018 , 13, 1377-1402	29
1345	Antibody pharmacokinetics in rat brain determined using microdialysis. 2018 , 10, 843-853	32
1344	Alzheimer's disease and alpha-synuclein pathology in the olfactory bulbs of infants, children, teens and adults \geq 0 years in Metropolitan Mexico City. APOE4 carriers at higher risk of suicide accelerate their olfactory bulb pathology. 2018 , 166, 348-362	47
1343	Short-Term Effects of Microglia-Specific Mitochondrial Dysfunction on Amyloidosis in Transgenic Models of Alzheimer's Disease. 2018 , 65, 465-474	4
1342	Unique and shared inflammatory profiles of human brain endothelia and pericytes. 2018 , 15, 138	48
1341	Neuro-Immuno-Gene- and Genome-Editing-Therapy for Alzheimer's Disease: Are We There Yet?. 2018 , 65, 321-344	12
1340	A lymphatic waste-disposal system implicated in Alzheimer's disease. 2018 , 560, 172-174	19
1339	Emerging Roles of Astrocytes in Neuro-Vascular Unit and the Tripartite Synapse With Emphasis on Reactive Gliosis in the Context of Alzheimer's Disease. 2018 , 12, 193	49
1338	Linking Glycation and Glycosylation With Inflammation and Mitochondrial Dysfunction in Parkinson's Disease. 2018 , 12, 381	33
1337	The meningeal and choroidal infiltration routes for leukocytes in stroke. 2018 , 11, 1756286418783708	27
1336	Results of Beta Secretase-Inhibitor Clinical Trials Support Amyloid Precursor Protein-Independent Generation of Beta Amyloid in Sporadic Alzheimer's Disease. 2018 , 6,	14

1335	The TRPM2 channel nexus from oxidative damage to Alzheimer's pathologies: An emerging novel intervention target for age-related dementia. 2018 , 47, 67-79	25
1334	Cerebrospinal fluid and vitreous body exposure to orally administered tafamidis in hereditary ATTRV30M (p.TTRV50M) amyloidosis patients. 2018 , 25, 120-128	22
1333	Plasma oxysterol profiling in children reveals 24-hydroxycholesterol as a potential marker for Autism Spectrum Disorders. 2018 , 153, 80-85	25
1332	Emerging Roles of Sonic Hedgehog in Adult Neurological Diseases: Neurogenesis and Beyond. 2018 , 19,	17
1331	Hemopexin reduces blood-brain barrier injury and protects synaptic plasticity in cerebral ischemic rats by promoting EPCs through the HO-1 pathway. 2018 , 1699, 177-185	15
1330	Blood-brain barrier breakdown, neuroinflammation, and cognitive decline in older adults. 2018 , 14, 1640-1650	87
1329	Stroke in CNS white matter: Models and mechanisms. 2018 , 684, 193-199	18
1328	Altered topology of the functional speech production network in non-fluent/agrammatic variant of PPA. 2018 , 108, 252-264	13
1327	Suppression of Presymptomatic Oxidative Stress and Inflammation in Neurodegeneration by Grape-Derived Polyphenols. 2018 , 9, 867	22
1326	Neuroimaging advances in Parkinson's disease. 2018 , 31, 415-424	16
1325	Redox-Activated Near-Infrared-Responsive Polyoxometalates Used for Photothermal Treatment of Alzheimer's Disease. 2018 , 7, e1800320	30
1324	Astrocytes play a crucial role in the formation and evolution of MS lesions - No. 2019 , 25, 17-19	1
1323	Microglia in the Neurovascular Unit: Blood-Brain Barrier-microglia Interactions After Central Nervous System Disorders. 2019 , 405, 55-67	74
1322	An isogenic neurovascular unit model comprised of human induced pluripotent stem cell-derived brain microvascular endothelial cells, pericytes, astrocytes, and neurons. 2019 , 16, 25	39
1321	Blood-Brain Barrier Dysfunction in Idiopathic Intracranial Hypertension. 2019 , 78, 808-818	15
1320	Blood-Brain Barrier Dysfunction in a 3D In Vitro Model of Alzheimer's Disease. 2019 , 6, 1900962	94
1319	Concordance between the assessment of A β 2, T-tau, and P-T181-tau in peripheral blood neuronal-derived exosomes and cerebrospinal fluid. 2019 , 15, 1071-1080	109
1318	Extracellular miRNAs: From Biomarkers to Mediators of Physiology and Disease. 2019 , 30, 656-673	203

1317	Pathomechanisms of Blood-Brain Barrier Disruption in ALS. 2019 , 2019, 2537698	24
1316	Blood-brain barrier opening with focused ultrasound in experimental models of Parkinson's disease. 2019 , 34, 1252-1261	15
1315	Targeting the transferrin receptor for brain drug delivery. 2019 , 181, 101665	96
1314	Optimized Radar Waveform Parameter Design for Small Drone Detection Based on Echo Modeling and Experimental Analysis. 2019 , 7, 101527-101538	2
1313	Imaging Biomarkers of the Neuroimmune System among Substance Use Disorders: A Systematic Review. 2019 , 5, 125-146	11
1312	Safety and efficacy of focused ultrasound induced blood-brain barrier opening, an integrative review of animal and human studies. 2019 , 309, 25-36	40
1311	Supervised pathway analysis of blood gene expression profiles in Alzheimer's disease. 2019 , 84, 98-108	5
1310	Inflammation within the neurovascular unit: Focus on microglia for stroke injury and recovery. 2019 , 147, 104349	42
1309	Blood-brain barrier and innate immunity in the pathogenesis of Alzheimer's disease. 2019 , 168, 99-145	17
1308	Neuroinflammation in frontotemporal dementia. <i>Nature Reviews Neurology</i> , 2019 , 15, 540-555	15 77
1307	Apolipoprotein E4 Expression Causes Gain of Toxic Function in Isogenic Human Induced Pluripotent Stem Cell-Derived Endothelial Cells. 2019 , 39, e195-e207	25
1306	Propofol attenuated TNF- β -modulated occludin expression by inhibiting Hif-1 β /VEGF/VEGFR-2/ERK signaling pathway in hCMEC/D3 cells. 2019 , 19, 127	12
1305	Development and Cell Biology of the Blood-Brain Barrier. 2019 , 35, 591-613	95
1304	Plasma YKL-40 in the spectrum of neurodegenerative dementia. 2019 , 16, 145	17
1303	Recent Developments in TSPO PET Imaging as A Biomarker of Neuroinflammation in Neurodegenerative Disorders. 2019 , 20,	97
1302	Current and emerging avenues for Alzheimer's disease drug targets. 2019 , 286, 398-437	60
1301	Endothelial Mitochondrial Dysfunction in Cerebral Amyloid Angiopathy and Alzheimer's Disease. 2019 , 72, 1019-1039	38
1300	5-Hydroxytryptophan: A precursor of serotonin influences regional blood-brain barrier breakdown, cerebral blood flow, brain edema formation, and neuropathology. 2019 , 146, 1-44	21

1299	Re-thinking the Etiological Framework of Neurodegeneration. 2019 , 13, 728	32
1298	Strategic goals and roadmap for dementia prevention by stroke prevention. 2019 , 15, 865-869	9
1297	Approaches to CNS Drug Delivery with a Focus on Transporter-Mediated Transcytosis. 2019 , 20,	44
1296	BloodBrain Barrier in Disease States. 2019 , 21-37	0
1295	Vascular Health is Associated with Amyloid- β in Cognitively Normal Older Adults. 2019 , 70, 467-475	9
1294	An atlas of nano-enabled neural interfaces. 2019 , 14, 645-657	80
1293	Lipid-Binding Proteins in Brain Health and Disease. 2019 , 10, 1152	9
1292	Lack of hepatic apoE does not influence early A β deposition: observations from a new APOE knock-in model. 2019 , 14, 37	26
1291	Lipopolysaccharide-stimulated, NF- κ B-, miRNA-146a- and miRNA-155-mediated molecular-genetic communication between the human gastrointestinal tract microbiome and the brain. 2019 , 57, 211-219	23
1290	Transcriptome profiling of brain myeloid cells revealed activation of Itgal, Trem1, and Spp1 in western diet-induced obesity. 2019 , 16, 169	16
1289	Aging Neurovascular Unit and Potential Role of DNA Damage and Repair in Combating Vascular and Neurodegenerative Disorders. 2019 , 13, 778	14
1288	Granisetron Alleviates Alzheimer's Disease Pathology in TgSwDI Mice Through Calmodulin-Dependent Protein Kinase II/cAMP-Response Element Binding Protein Pathway. 2019 , 72, 1097-1117	3
1287	The Blood-Brain Barrier and Its Intercellular Junctions in Age-Related Brain Disorders. 2019 , 20,	35
1286	Albumin Exchange in Alzheimer's Disease: Might CSF Be an Alternative Route to Plasma?. 2019 , 10, 1036	5
1285	Multiplex proteomics identifies novel CSF and plasma biomarkers of early Alzheimer's disease. 2019 , 7, 169	58
1284	On the Neuroprotective Effects of Naringenin: Pharmacological Targets, Signaling Pathways, Molecular Mechanisms, and Clinical Perspective. 2019 , 9,	36
1283	Exploring the Regulatory Role of Circular RNAs in Neurodegenerative Disorders. 2019 , 20,	29
1282	Transplantation of Mesenchymal Stem Cells Improves Amyloid- β Pathology by Modifying Microglial Function and Suppressing Oxidative Stress. 2019 , 72, 867-884	19

1281	Association between increased levels of amyloid- β oligomers in plasma and episodic memory loss in Alzheimer's disease. 2019 , 11, 89	19
1280	Lymphatics Visualization after Focused Ultrasound-Induced Blood-Brain Barrier Opening in Humans. 2019 , 86, 975-980	55
1279	History and progress of hypotheses and clinical trials for Alzheimer's disease. 2019 , 4, 29	182
1278	Cofilin 2 in Serum as a Novel Biomarker for Alzheimer's Disease in Han Chinese. 2019 , 11, 214	6
1277	Learning a Deep Representative Saliency Map With Sparse Tensors. 2019 , 7, 117861-117870	2
1276	Small vessel disease to subcortical dementia: a dynamic model, which interfaces aging, cholinergic dysregulation and the neurovascular unit. 2019 , 15, 259-281	28
1275	Mesenchymal stem cell therapy assisted by nanotechnology: a possible combinational treatment for brain tumor and central nerve regeneration. 2019 , 14, 5925-5942	21
1274	Basic Daily Activity Recognition with a Data Glove. 2019 , 151, 108-115	5
1273	Chronic high fat feeding paradoxically attenuates cerebral capillary dysfunction and neurovascular inflammation in Senescence-Accelerated-Murine-Prone Strain 8 mice. 2021 , 24, 635-643	2
1272	Tissue-engineered blood-brain barrier models via directed differentiation of human induced pluripotent stem cells. 2019 , 9, 13957	44
1271	miR-124 regulates cerebromicrovascular function in APP/PS1 transgenic mice via C1ql3. 2019 , 153, 214-222	13
1270	Photobiomodulation Mitigates Cerebrovascular Leakage Induced by the Parkinsonian Neurotoxin MPTP. 2019 , 9,	8
1269	Long-Term Dabigatran Treatment Delays Alzheimer's Disease Pathogenesis in the TgCRND8 Mouse Model. 2019 , 74, 1910-1923	38
1268	Blood-brain barrier at the interface of air pollution-associated neurotoxicity and neuroinflammation. 2019 , 295-337	2
1267	Endothelium-Derived Semaphorin 3G Regulates Hippocampal Synaptic Structure and Plasticity via Neuropilin-2/PlexinA4. 2019 , 101, 920-937.e13	42
1266	Circular RNA expression and function in the brain. 2019 , 4, 23-29	27
1265	Microglia contribute to the glia limitans around arteries, capillaries and veins under physiological conditions, in a model of neuroinflammation and in human brain tissue. 2019 , 224, 1301-1314	36
1264	Fibrinogen Induces Microglia-Mediated Spine Elimination and Cognitive Impairment in an Alzheimer's Disease Model. 2019 , 101, 1099-1108.e6	139

1263	Cannabidiol Increases Proliferation, Migration, Tubulogenesis, and Integrity of Human Brain Endothelial Cells through TRPV2 Activation. 2019 , 16, 1312-1326	23
1262	Challenges and Opportunities in Central Nervous System Drug Discovery. 2019 , 1, 612-624	28
1261	Cerebrovascular plasticity: Processes that lead to changes in the architecture of brain microvessels. 2019 , 39, 1413-1432	16
1260	Pericyte loss leads to circulatory failure and pleiotrophin depletion causing neuron loss. 2019 , 22, 1089-1098	144
1259	Blood-brain barrier function, cell viability, and gene expression of tight junction-associated proteins in the mouse are disrupted by crude oil, benzo[a]pyrene, and the dispersant COREXIT. 2019 , 223, 96-105	5
1258	Peripheral versus central nervous system APOE in Alzheimer's disease: Interplay across the blood-brain barrier. 2019 , 708, 134306	20
1257	Design, synthesis, biological evaluation, and molecular dynamics of novel cholinesterase inhibitors as anti-Alzheimer's agents. 2019 , 352, e1800352	9
1256	Established and Emerging Strategies for Drug Delivery Across the Blood-Brain Barrier in Brain Cancer. 2019 , 11,	35
1255	Role of Cav-1 in HIV-1 Tat-Induced Dysfunction of Tight Junctions and A-Transferring Proteins. 2019 , 2019, 3403206	8
1254	Endo-lysosomal dysregulations and late-onset Alzheimer's disease: impact of genetic risk factors. 2019 , 14, 20	75
1253	ADAMTS13 maintains cerebrovascular integrity to ameliorate Alzheimer-like pathology. 2019 , 17, e3000313	15
1252	Metalloproteinases and their tissue inhibitors in Alzheimer's disease and other neurodegenerative disorders. 2019 , 76, 3167-3191	41
1251	Locus Coeruleus Degeneration Induces Forebrain Vascular Pathology in a Transgenic Rat Model of Alzheimer's Disease. 2019 , 70, 371-388	13
1250	Recent Progress in Microfluidic Models of the Blood-Brain Barrier. 2019 , 10,	41
1249	The Role of Neuronal NLRP1 Inflammasome in Alzheimer's Disease: Bringing Neurons into the Neuroinflammation Game. 2019 , 56, 7741-7753	36
1248	Targeting Apolipoprotein E for Alzheimer's Disease: An Industry Perspective. 2019 , 20,	18
1247	ApoA-I deficiency increases cortical amyloid deposition, cerebral amyloid angiopathy, cortical and hippocampal astrogliosis, and amyloid-associated astrocyte reactivity in APP/PS1 mice. 2019 , 11, 44	19
1246	Fibrinogen E domain: Its importance in physiopathology. 2019 , 3, 173-183	5

1245	Bioengineering an Artificial Human Blood?Brain Barrier in Rodents. 2019 , 6,	4
1244	Intravenous infusion of mesenchymal stem cells improves impaired cognitive function in a cerebral small vessel disease model. 2019 , 408, 361-377	22
1243	Progress of immunotherapy of anti- α -synuclein in Parkinson's disease. 2019 , 115, 108843	28
1242	Nonparenchymal fluid is the source of increased mean diffusivity in preclinical Alzheimer's disease. 2019 , 11, 348-354	8
1241	Crosstalk between chitosan and cell signaling pathways. 2019 , 76, 2697-2718	16
1240	The Receptor for Advanced Glycation End Products (RAGE) and DIAPH1: Implications for vascular and neuroinflammatory dysfunction in disorders of the central nervous system. 2019 , 126, 154-164	25
1239	Venous and lymphatic drainage of the brain: Brief history of the International Society for Neurovascular Disease. 2019 , 8,	
1238	Neurovascular Ageing and Age-Related Diseases. 2019 , 91, 477-499	23
1237	Exploiting BBB disruption for the delivery of nanocarriers to the diseased CNS. 2019 , 60, 146-152	24
1236	Brain Vasculature and Cognition. 2019 , 39, 593-602	17
1235	Low Cerebrospinal Fluid Levels of Melanotransferrin Are Associated With Conversion of Mild Cognitively Impaired Subjects to Alzheimer's Disease. 2019 , 13, 181	6
1234	Cannabidiol Enhances the Passage of Lipid Nanocapsules across the Blood-Brain Barrier Both in Vitro and in Vivo. 2019 , 16, 1999-2010	21
1233	Arabinogalactan Proteins Are the Possible Extracellular Molecules for Binding Exogenous Cerium(III) in the Acidic Environment Outside Plant Cells. 2019 , 10, 153	3
1232	Vasoprotective Functions of High-Density Lipoproteins Relevant to Alzheimer's Disease Are Partially Conserved in Apolipoprotein B-Depleted Plasma. 2019 , 20,	4
1231	Does HIV infection contribute to increased beta-amyloid synthesis and plaque formation leading to neurodegeneration and Alzheimer's disease?. 2019 , 25, 634-647	24
1230	Defective vascular signaling & prospective therapeutic targets in brain arteriovenous malformations. 2019 , 126, 126-138	11
1229	Coagulation Pathways in Neurological Diseases: Multiple Sclerosis. 2019 , 10, 409	24
1228	Current Approaches and Future Perspectives for Nanobodies in Stroke Diagnostic and Therapy. 2019 , 8,	11

1227	Cerebral blood flow and cerebrovascular reactivity correlate with severity of motor symptoms in Parkinson's disease. 2019 , 12, 1756286419838354	14
1226	Pericytes in the Retina. 2019 , 1122, 1-26	13
1225	Plasma Rich in Growth Factors (PRGF) Disrupt the Blood-Brain Barrier Integrity and Elevate Amyloid Pathology in the Brains of 5XFAD Mice. 2019 , 20,	4
1224	Nanodelivery of cerebrolysin reduces pathophysiology of Parkinson's disease. 2019 , 245, 201-246	15
1223	New Insights into the Role of Epithelial?Mesenchymal Transition during Aging. 2019 , 20,	19
1222	Nanoformulation properties, characterization, and behavior in complex biological matrices: Challenges and opportunities for brain-targeted drug delivery applications and enhanced translational potential. 2019 , 148, 146-180	45
1221	The year in review: progress in brain barriers and brain fluid research in 2018. 2019 , 16, 4	8
1220	microRNA-34a (miRNA-34a) Mediated Down-Regulation of the Post-synaptic Cytoskeletal Element SHANK3 in Sporadic Alzheimer's Disease (AD). 2019 , 10, 28	19
1219	Astrocytic endfeet re-cover blood vessels after removal by laser ablation. 2019 , 9, 1263	38
1218	Panax notoginseng Saponins Ameliorate Leukocyte Adherence and Cerebrovascular Endothelial Barrier Breakdown upon Ischemia-Reperfusion in Mice. 2019 , 56, 1-10	8
1217	Toward in vivo determination of peripheral nervous system immune activity in amyotrophic lateral sclerosis. 2019 , 59, 567-576	13
1216	Identification of two novel peptides with antioxidant activity and their potential in inhibiting amyloid- β aggregation in vitro. 2019 , 10, 1191-1202	5
1215	Endothelial edema precedes blood-brain barrier breakdown in early time points after experimental focal cerebral ischemia. 2019 , 7, 17	27
1214	Sleep Disturbance as a Potential Modifiable Risk Factor for Alzheimer's Disease. 2019 , 20,	38
1213	The role of astroglia in Alzheimer's disease: pathophysiology and clinical implications. 2019 , 18, 406-414	120
1212	iPSC-Derived Brain Endothelium Exhibits Stable, Long-Term Barrier Function in Perfused Hydrogel Scaffolds. 2019 , 12, 474-487	46
1211	Undetectable gadolinium brain retention in individuals with an age-dependent blood-brain barrier breakdown in the hippocampus and mild cognitive impairment. 2019 , 15, 1568-1575	10
1210	Markers of CNS Injury in Adults Living With HIV With CSF HIV Not Detected vs Detected . 2019 , 6, ofz528	5

1209	Elevated Plasma microRNA-206 Levels Predict Cognitive Decline and Progression to Dementia from Mild Cognitive Impairment. 2019 , 9,	23
1208	Restoring Wnt/ β -catenin signaling is a promising therapeutic strategy for Alzheimer's disease. 2019 , 12, 104	71
1207	Brain-to-cervical lymph node signaling after stroke. 2019 , 10, 5306	35
1206	Clinical activity of the tyrosine kinase inhibitor osimertinib in β -mutant glioblastoma. 2019 , 8, CNS43	17
1205	Paroxysmal slow cortical activity in Alzheimer's disease and epilepsy is associated with blood-brain barrier dysfunction. 2019 , 11,	43
1204	Choroidal Neovascularization: Mechanisms of Endothelial Dysfunction. 2019 , 10, 1363	21
1203	Investigating the energy crisis in Alzheimer disease using transcriptome study. 2019 , 9, 18509	8
1202	Facilitation of Gastrointestinal (GI) Tract Microbiome-Derived Lipopolysaccharide (LPS) Entry Into Human Neurons by Amyloid Beta-42 (A β 2) Peptide. 2019 , 13, 545	7
1201	Blood-brain barrier dysfunction in aging induces hyperactivation of TGF β signaling and chronic yet reversible neural dysfunction. 2019 , 11,	72
1200	The leukotriene signaling pathway: a druggable target in Alzheimer's disease. 2019 , 24, 505-516	27
1199	Water-exchange MRI detects subtle blood-brain barrier breakdown in Alzheimer's disease rats. 2019 , 184, 349-358	30
1198	Comparison of organ-specific endothelial cells in terms of microvascular formation and endothelial barrier functions. 2019 , 122, 60-70	28
1197	Brain imaging with near-infrared fluorophores. 2019 , 380, 550-571	40
1196	Functional and Structural Changes of the Blood-Nerve-Barrier in Diabetic Neuropathy. 2018 , 12, 1038	45
1195	Neuropilin-1 Controls Endothelial Homeostasis by Regulating Mitochondrial Function and Iron-Dependent Oxidative Stress. 2019 , 11, 205-223	23
1194	Vascular dysfunction-The disregarded partner of Alzheimer's disease. 2019 , 15, 158-167	265
1193	A Combination of Tri-Leucine and Angiopep-2 Drives a Polyanionic Polymalic Acid Nanodrug Platform Across the Blood-Brain Barrier. 2019 , 13, 1253-1271	33
1192	Blood-brain barrier breakdown is an early biomarker of human cognitive dysfunction. 2019 , 25, 270-276	577

1191	New APOE-related therapeutic options for Alzheimer's disease. 2019 ,	3
1190	Blood-Brain Barrier: From Physiology to Disease and Back. 2019 , 99, 21-78	647
1189	Neurotheranostics as personalized medicines. 2019 , 148, 252-289	36
1188	Human iPSC-derived blood-brain barrier microvessels: validation of barrier function and endothelial cell behavior. 2019 , 190-191, 24-37	86
1187	Brain Delivery of Curcumin Using Solid Lipid Nanoparticles and Nanostructured Lipid Carriers: Preparation, Optimization, and Pharmacokinetic Evaluation. 2019 , 10, 728-739	82
1186	The role of neurovascular unit damage in the occurrence and development of Alzheimer's disease. 2019 , 30, 477-484	30
1185	Intracellular transport and regulation of transcytosis across the blood-brain barrier. 2019 , 76, 1081-1092	81
1184	Unveiling the olfactory proteostatic disarrangement in Parkinson's disease by proteome-wide profiling. 2019 , 73, 123-134	26
1183	Fluorescence Imaging of Alzheimer's Disease with a Flat Ensemble Formed between a Quinoline-Malonitrile AIEgen and Thin-Layer Molybdenum Disulfide. 2019 , 20, 1856-1860	6
1182	AKT2 maintains brain endothelial claudin-5 expression and selective activation of IR/AKT2/FOXO1-signaling reverses barrier dysfunction. 2020 , 40, 374-391	8
1181	The gut microbiome and neuroinflammation in amyotrophic lateral sclerosis? Emerging clinical evidence. 2020 , 135, 104300	4
1180	Brain Injury-Mediated Neuroinflammatory Response and Alzheimer's Disease. 2020 , 26, 134-155	18
1179	Plasma total prion protein as a potential biomarker for neurodegenerative dementia: diagnostic accuracy in the spectrum of prion diseases. 2020 , 46, 240-254	15
1178	MicroRNAs and Regeneration in Animal Models of CNS Disorders. 2020 , 45, 188-203	9
1177	Selenium speciation analysis in the cerebrospinal fluid of patients with Parkinson's disease. 2020 , 57, 126412	12
1176	Advances on fluid shear stress regulating blood-brain barrier. 2020 , 128, 103930	17
1175	Dr. Daniel Acosta and In Vitro toxicology at the U.S. Food and Drug Administration's National Center for Toxicological Research. 2020 , 64, 104471	1
1174	Blood-brain barrier imaging as a potential biomarker for bipolar disorder progression. 2020 , 26, 102049	26

1173	Modeling Alzheimer's disease with iPSC-derived brain cells. 2020 , 25, 148-167	115
1172	Ligand-Installed Nanocarriers toward Precision Therapy. 2020 , 32, e1902604	117
1171	Association of Cavum Septum Pellucidum and Cavum Vergae With Cognition, Mood, and Brain Volumes in Professional Fighters. 2020 , 77, 35-42	11
1170	Blood-brain barrier leakage of blood proteins in idiopathic normal pressure hydrocephalus. 2020 , 1727, 146547	11
1169	Anti-depressant effect of curcumin-loaded guanidine-chitosan thermo-sensitive hydrogel by nasal delivery. 2020 , 25, 316-325	13
1168	MicroRNAs in central nervous system diseases: A prospective role in regulating blood-brain barrier integrity. 2020 , 323, 113094	40
1167	Alzheimer's Disease Pharmacotherapy in Relation to Cholinergic System Involvement. 2019 , 10,	65
1166	Hide-and-seek for radiotracers and neurodegenerative pathology. 2020 , 47, 1791-1792	
1165	Every-other-day feeding exacerbates inflammation and neuronal deficits in 5XFAD mouse model of Alzheimer's disease. 2020 , 136, 104745	9
1164	Pre-exposure Prophylaxis Therapy and the Blood-Brain Barrier: Is PrEP Neuroprotective?. 2020 , 15, 10-12	
1163	Microphysiological systems for recapitulating physiology and function of blood-brain barrier. 2020 , 232, 119732	17
1162	Antihypertensive agents in Alzheimer's disease: beyond vascular protection. 2020 , 20, 175-187	12
1161	Neural stem cell therapy for neurovascular injury in Alzheimer's disease. 2020 , 324, 113112	35
1160	Elemental fingerprint: Reassessment of a cerebrospinal fluid biomarker for Parkinson's disease. 2020 , 134, 104677	8
1159	Phytol loaded PLGA nanoparticles regulate the expression of Alzheimer's related genes and neuronal apoptosis against amyloid- β induced toxicity in Neuro-2a cells and transgenic <i>Caenorhabditis elegans</i> . 2020 , 136, 110962	12
1158	A Reconfigurable In Vitro Model for Studying the Blood-Brain Barrier. 2020 , 48, 780-793	18
1157	Blood-brain barrier pathology linked to epilepsy in Alzheimer disease. <i>Nature Reviews Neurology</i> , 2020 , 16, 66	15 2
1156	Dysregulated Fc gamma receptor-mediated phagocytosis pathway in Alzheimer's disease: network-based gene expression analysis. 2020 , 88, 24-32	6

1155	The role of exercise in the reversal of IGF-1 deficiencies in microvascular rarefaction and hypertension. 2020 , 42, 141-158	15
1154	P-glycoprotein: a role in the export of amyloid- β in Alzheimer's disease?. 2020 , 287, 612-625	31
1153	The emerging role of neutrophils in neurodegeneration. 2020 , 225, 151865	14
1152	Vasomotion as a Driving Force for Paravascular Clearance in the Awake Mouse Brain. 2020 , 105, 549-561.e5	107
1151	Nanotechnology to improve the Alzheimer's disease therapy with natural compounds. 2020 , 10, 380-402	24
1150	Deletion of equilibrative nucleoside transporter-2 protects against lipopolysaccharide-induced neuroinflammation and blood-brain barrier dysfunction in mice. 2020 , 84, 59-71	9
1149	Developing robust biomarkers for vascular cognitive disorders: adding 'V' to the AT(N) research framework. 2020 , 33, 148-155	2
1148	Pancreatic Angiopathy Associated With Islet Amyloid and Type 2 Diabetes Mellitus. 2020 , 49, 1232-1239	0
1147	Blood-brain barrier leakage in systemic lupus erythematosus is associated with gray matter loss and cognitive impairment. 2020 , 79, 1580-1587	13
1146	Potential applications of microfluidics based blood brain barrier (BBB)-on-chips for in vitro drug development. 2020 , 132, 110822	17
1145	Molecular Imaging of Striatal Dopaminergic Neuronal Loss and the Neurovascular Unit in Parkinson Disease. 2020 , 14, 528809	3
1144	TRPV4-Mediated Regulation of the Blood Brain Barrier Is Abolished During Inflammation. 2020 , 8, 849	3
1143	Interrelations of Alzheimer's disease candidate biomarkers neurogranin, fatty acid-binding protein 3 and ferritin to neurodegeneration and neuroinflammation. 2021 , 157, 2210-2224	5
1142	Dysfunction of the neurovascular unit in diabetes-related neurodegeneration. 2020 , 131, 110656	9
1141	Gut microbiome improves postoperative cognitive function by decreasing permeability of the blood-brain barrier in aged mice. 2020 , 164, 249-256	15
1140	Neuroinflammation after surgery: from mechanisms to therapeutic targets. 2020 , 21, 1319-1326	31
1139	Context-Specific Striatal Astrocyte Molecular Responses Are Phenotypically Exploitable. 2020 , 108, 1146-1162.e10	10
1138	Parallels between retinal and brain pathology and response to immunotherapy in old, late-stage Alzheimer's disease mouse models. 2020 , 19, e13246	16

1137	miR-195 reduces age-related blood-brain barrier leakage caused by thrombospondin-1-mediated selective autophagy. 2020 , 19, e13236	10
1136	Designing peptide nanoparticles for efficient brain delivery. 2020 , 160, 52-77	18
1135	Holistic insights into meningitic infection of astrocytes based on whole transcriptome profiling. 2020 , 12, 1611-1632	1
1134	Ambient PM particles reach mouse brain, generate ultrastructural hallmarks of neuroinflammation, and stimulate amyloid deposition, tangles, and plaque formation. 2020 , 2, 100013	7
1133	Effects of sub-concussion on neuropsychological performance and its potential mechanisms: A narrative review. 2020 , 165, 56-62	12
1132	Role of non-coding RNAs in age-related vascular cognitive impairment: An overview on diagnostic/prognostic value in Vascular Dementia and Vascular Parkinsonism. 2020 , 191, 111332	3
1131	Preclinical models of disease and multimorbidity with focus upon cardiovascular disease and dementia. 2020 , 192, 111361	2
1130	Single-nucleus transcriptome analysis reveals dysregulation of angiogenic endothelial cells and neuroprotective glia in Alzheimer's disease. 2020 , 117, 25800-25809	46
1129	Therapeutic applications of chelating drugs in iron metabolic disorders of the brain and retina. 2020 , 98, 1889-1904	6
1128	Aging exacerbates impairments of cerebral blood flow autoregulation and cognition in diabetic rats. 2020 , 42, 1387-1410	14
1127	Vascular contributions to 16p11.2 deletion autism syndrome modeled in mice. 2020 , 23, 1090-1101	25
1126	High-Pressure Pneumoperitoneum Aggravates Surgery-Induced Neuroinflammation and Cognitive Dysfunction in Aged Mice. 2020 , 2020, 6983193	4
1125	Molecular and cellular mechanisms underlying the pathogenesis of Alzheimer's disease. 2020 , 15, 40	165
1124	Blood-brain barrier pathology in patients with severe mental disorders: a systematic review and meta-analysis of biomarkers in case-control studies. 2020 , 6, 100102	3
1123	Antioxidant therapy, oxidative stress, and blood-brain barrier: The road of dietary antioxidants. 2020 , 125-141	3
1122	Sera of elderly obstructive sleep apnea patients alter blood-brain barrier integrity in vitro: a pilot study. 2020 , 10, 11309	4
1121	Longitudinal Magnetic Resonance Imaging of Cerebral Microbleeds in Multiple Sclerosis Patients. 2020 , 10,	1
1120	Perspectives on Nanodelivery to the Brain: Prerequisites for Successful Brain Treatment. 2020 , 17, 4029-4039	9

1119	Melatonin regulates A β production/clearance balance and A β neurotoxicity: A potential therapeutic molecule for Alzheimer's disease. 2020 , 132, 110887	25
1118	An in vitro bioengineered model of the human arterial neurovascular unit to study neurodegenerative diseases. 2020 , 15, 70	3
1117	Clinical Utility of the Pathogenesis-Related Proteins in Alzheimer's Disease. 2020 , 21,	4
1116	CNS-Targeting Therapies for Lysosomal Storage Diseases: Current Advances and Challenges. 2020 , 7, 559804	14
1115	An Overview on the Differential Interplay Among Neurons-Astrocytes-Microglia in CA1 and CA3 Hippocampus in Hypoxia/Ischemia. 2020 , 14, 585833	10
1114	Omarigliptin Mitigates Lipopolysaccharide-Induced Neuroinflammation and Dysfunction of the Integrity of the Blood-Brain Barrier. 2020 , 11, 4262-4269	10
1113	High-speed volumetric two-photon fluorescence imaging of neurovascular dynamics. 2020 , 11, 6020	17
1112	Mild traumatic brain injury exacerbates Parkinson's disease induced hemeoxygenase-2 expression and brain pathology: Neuroprotective effects of co-administration of TiO nanowired mesenchymal stem cells and cerebrolysin. 2020 , 258, 157-231	11
1111	Modeling neurodegenerative diseases with cerebral organoids and other three-dimensional culture systems: focus on Alzheimer's disease. 2020 , 1	9
1110	AKAP12 Supports Blood-Brain Barrier Integrity against Ischemic Stroke. 2020 , 21,	5
1109	Proteomic Characterization of Synaptosomes from Human Substantia Nigra Indicates Altered Mitochondrial Translation in Parkinson's Disease. 2020 , 9,	6
1108	Diabetic phenotype in mouse and humans reduces the number of microglia around β amyloid plaques. 2020 , 15, 66	6
1107	Mesenchymal Stem Cell Therapy and Alzheimer's Disease: Current Status and Future Perspectives. 2020 , 77, 1-14	13
1106	Blood-brain barrier amenable gold nanoparticles biofabrication in aged cell culture medium. 2020 , 8, 100072	5
1105	Blood-brain barrier integrity in the pathogenesis of Alzheimer's disease. 2020 , 59, 100857	26
1104	Overcoming the blood-brain barrier in neurodegenerative disorders and brain tumours. 2020 , 14, 441-448	7
1103	Therapeutic TVs for Crossing Barriers in the Brain. 2020 , 182, 267-269	4
1102	Brain angiotensin II and angiotensin IV receptors as potential Alzheimer's disease therapeutic targets. 2020 , 42, 1237-1256	15

1101	Elevated Percentage of CD3 T-Cells and CD4/CD8 Ratios in Multiple System Atrophy Patients. 2020 , 11, 658	3
1100	Focused Ultrasound for Noninvasive, Focal Pharmacologic Neurointervention. 2020 , 14, 675	6
1099	The physiological roles of tau and A β implications for Alzheimer's disease pathology and therapeutics. 2020 , 140, 417-447	88
1098	The Role of Neurovascular System in Neurodegenerative Diseases. 2020 , 57, 4373-4393	20
1097	Vascular Inflammation Is a Risk Factor Associated with Brain Atrophy and Disease Severity in Parkinson's Disease: A Case-Control Study. 2020 , 2020, 2591248	10
1096	Oxidative Stress-Mediated Blood-Brain Barrier (BBB) Disruption in Neurological Diseases. 2020 , 2020, 1-27	20
1095	Fgfbp1 promotes blood-brain barrier development by regulating collagen IV deposition and maintaining Wnt/ β catenin signaling. 2020 , 147,	10
1094	Blood-brain barrier permeability measurement by biexponentially modeling whole-brain arterial spin labeling data with multiple T-weightings. 2020 , 33, e4374	3
1093	Blood-Brain Barrier: More Contributor to Disruption of Central Nervous System Homeostasis Than Victim in Neurological Disorders. 2020 , 14, 764	22
1092	The 3D Brain Unit Network Model to Study Spatial Brain Drug Exposure under Healthy and Pathological Conditions. 2020 , 37, 137	3
1091	Aging of the Vascular System and Neural Diseases. 2020 , 12, 557384	10
1090	How repetitive traumatic injury alters long-term brain function. 2020 , 89, 955-961	1
1089	Strategies and materials of "SMART" non-viral vectors: Overcoming the barriers for brain gene therapy. 2020 , 35, 101006	7
1088	Increased Contact System Activation in Mild Cognitive Impairment Patients with Impaired Short-Term Memory. 2020 , 77, 59-65	6
1087	A pilot study investigating the effects of voluntary exercise on capillary stalling and cerebral blood flow in the APP/PS1 mouse model of Alzheimer's disease. 2020 , 15, e0235691	4
1086	Integrating Biosensors in Organs-on-Chip Devices: A Perspective on Current Strategies to Monitor Microphysiological Systems. 2020 , 10,	32
1085	Metabolic determinants of leukocyte pathogenicity in neurological diseases. 2021 , 158, 36-58	4
1084	Amalgam regulates the receptor tyrosine kinase pathway through Sprouty in glial cell development in the larval brain. 2020 , 133,	0

1083	Human iPSC-Derived Blood-Brain Barrier Models: Valuable Tools for Preclinical Drug Discovery and Development?. 2020 , 55, e122	10
1082	The Potential of Liquid Biopsy of the Brain Using Blood Extracellular Vesicles: The First Step Toward Effective Neuroprotection Against Neurodegenerative Diseases. 2020 , 24, 703-713	6
1081	Alzheimer's Retinopathy: Seeing Disease in the Eyes. 2020 , 14, 921	24
1080	Mitochondrial Fusion Promoter Alleviates Brain Damage in Rats with Cardiac Ischemia/Reperfusion Injury. 2020 , 77, 993-1003	8
1079	Will Sirtuins Be Promising Therapeutic Targets for TBI and Associated Neurodegenerative Diseases?. 2020 , 14, 791	6
1078	High Cholesterol Diet Exacerbates Blood-Brain Barrier Disruption in LDLr ^{-/-} Mice: Impact on Cognitive Function. 2020 , 78, 97-115	13
1077	Significance of Blood and Cerebrospinal Fluid Biomarkers for Alzheimer's Disease: Sensitivity, Specificity and Potential for Clinical Use. 2020 , 10,	10
1076	Regulation of blood-brain barrier integrity by microglia in health and disease: A therapeutic opportunity. 2020 , 40, S6-S24	65
1075	Toward refining Alzheimer's disease into overlapping subgroups. 2020 , 6, e12070	2
1074	Increases in hypertension-induced cerebral microhemorrhages exacerbate gait dysfunction in a mouse model of Alzheimer's disease. 2020 , 42, 1685-1698	16
1073	RNA Interference Nanotherapeutics for Treatment of Glioblastoma Multiforme. 2020 , 17, 4040-4066	8
1072	Deciphering inhibitory activity of flavonoids against tau protein kinases: a coupled molecular docking and quantum chemical study. 2020 , 1-14	3
1071	Non-Coding RNAs in the Brain-Heart Axis: The Case of Parkinson's Disease. 2020 , 21,	12
1070	An Iatrogenic Model of Brain Small-Vessel Disease: Post-Radiation Encephalopathy. 2020 , 21,	1
1069	Cell chirality in cardiovascular development and disease. 2020 , 4, 031503	3
1068	Signalling, Metabolic Pathways and Iron Homeostasis in Endothelial Cells in Health, Atherosclerosis and Alzheimer's Disease. 2020 , 9,	5
1067	Selective Regional Isolation of Brain Microvessels. 2021 , 2367, 37-46	
1066	Metal-Enhanced Fluorescence by Bifunctional Au Nanoparticles for Highly Sensitive and Simple Detection of Proteolytic Enzyme. 2020 , 20, 7100-7107	25

1065	Tau and apolipoprotein E modulate cerebrovascular tight junction integrity independent of cerebral amyloid angiopathy in Alzheimer's disease. 2020 , 16, 1372-1383	12
1064	Beyond barrier functions: Roles of pericytes in homeostasis and regulation of neuroinflammation. 2020 , 98, 2390-2405	10
1063	Analysis of brain atrophy and local gene expression in genetic frontotemporal dementia. 2020 , 2,	6
1062	Oxidative stress in the medullary respiratory neurons contributes to respiratory dysfunction in the 6-OHDA model of Parkinson's disease. 2020 , 598, 5271-5293	5
1061	High Mobility Group Box-1 and Blood-Brain Barrier Disruption. 2020 , 9,	19
1060	Ginsenoside Rg1 exerts neuroprotective effects in 3-nitropropionic acid-induced mouse model of Huntington's disease via suppressing MAPKs and NF- κ B pathways in the striatum. 2021 , 42, 1409-1421	9
1059	Current Status and Challenges Associated with CNS-Targeted Gene Delivery across the BBB. 2020 , 12,	11
1058	Neurocapillary-Modulation. 2020 ,	4
1057	Fibrinogen isoforms as potential blood-based biomarkers of Alzheimer's disease using a proteomics approach. 2020 , 1-12	1
1056	Space-Dependent Glia-Neuron Interplay in the Hippocampus of Transgenic Models of β Amyloid Deposition. 2020 , 21,	3
1055	Acylated Ghrelin as a Multi-Targeted Therapy for Alzheimer's and Parkinson's Disease. 2020 , 14, 614828	7
1054	PBN inhibits a detrimental effect of methamphetamine on brain endothelial cells by alleviating the generation of reactive oxygen species. 2020 , 43, 1347-1355	3
1053	Self-Protecting Biomimetic Nanozyme for Selective and Synergistic Clearance of Peripheral Amyloid- β in an Alzheimer's Disease Model. 2020 , 142, 21702-21711	36
1052	Peripherally-sourced myeloid antigen presenting cells increase with advanced aging. 2020 , 90, 235-247	7
1051	Reduction of mNAT1/hNAT2 Contributes to Cerebral Endothelial Necroptosis and A β Accumulation in Alzheimer's Disease. 2020 , 33, 108447	7
1050	Blood neurofilament light: a critical review of its application to neurologic disease. 2020 , 7, 2508-2523	39
1049	APOE2: protective mechanism and therapeutic implications for Alzheimer's disease. 2020 , 15, 63	35
1048	Neuronal and glial regulation of CNS angiogenesis and barrierogenesis. 2020 , 147,	23

1047	Persistent Neurovascular Unit Dysfunction: Pathophysiological Substrate and Trigger for Late-Onset Neurodegeneration After Traumatic Brain Injury. 2020 , 14, 581	10
1046	TRA2A-induced upregulation of LINC00662 regulates blood-brain barrier permeability by affecting ELK4 mRNA stability in Alzheimer's microenvironment. 2020 , 17, 1293-1308	12
1045	Periodontal disease as a possible cause for Alzheimer's disease. 2020 , 83, 242-271	32
1044	APOE* ϵ 4 is linked to BBB breakdown. <i>Nature Reviews Neurology</i> , 2020 , 16, 350	15
1043	Tight junction modulators for drug delivery to the central nervous system. 2020 , 25, 1477-1486	5
1042	Proteomic Profiling of Plasma and Brain Tissue from Alzheimer's Disease Patients Reveals Candidate Network of Plasma Biomarkers. 2020 , 76, 349-368	9
1041	CD8 T-cells infiltrate Alzheimer's disease brains and regulate neuronal- and synapse-related gene expression in APP-PS1 transgenic mice. 2020 , 89, 67-86	24
1040	Brain tumor vessels-a barrier for drug delivery. 2020 , 39, 959-968	3
1039	Advances in nanotechnology-based strategies for the treatments of amyotrophic lateral sclerosis. 2020 , 6, 100055	18
1038	Multiple-Hit Hypothesis in Parkinson's Disease: LRRK2 and Inflammation. 2020 , 14, 376	20
1037	Multifarious roles of mTOR signaling in cognitive aging and cerebrovascular dysfunction of Alzheimer's disease. 2020 , 72, 1843-1855	24
1036	Arylesterase Activity of Paraoxonase-1 in Serum and Cerebrospinal Fluid of Patients with Alzheimer's Disease and Vascular Dementia. 2020 , 9,	9
1035	Matrix Metalloproteinases as New Targets in Alzheimer's Disease: Opportunities and Challenges. 2020 , 63, 10705-10725	18
1034	Neurobiology of COVID-19. 2020 , 76, 3-19	185
1033	In Vitro Models of the Blood-Brain Barrier. 2021 , 265, 75-110	7
1032	Feasibility of filter-exchange imaging (FEXI) in measuring different exchange processes in human brain. 2020 , 219, 117039	7
1031	Engineering Brain-Specific Pericytes from Human Pluripotent Stem Cells. 2020 , 26, 367-382	11
1030	Diagnostic Biomarkers for Alzheimer's Disease Using Non-Invasive Specimens. 2020 , 9,	12

1029	Astrocyte glutathione maintains endothelial barrier stability. 2020 , 34, 101576	16
1028	Key for crossing the BBB with nanoparticles: the rational design. 2020 , 11, 866-883	55
1027	Recent Advancements of Nanomedicine in Neurodegenerative Disorders Theranostics. 2020 , 30, 2003054	38
1026	Leaky Blood-Brain Barrier: A Double Whammy for the Brain. 2020 , 20, 165-167	1
1025	Recent Developments in Microfluidic Technologies for Central Nervous System Targeted Studies. 2020 , 12,	13
1024	Multicellular 3D Neurovascular Unit Model for Assessing Hypoxia and Neuroinflammation Induced Blood-Brain Barrier Dysfunction. 2020 , 10, 9766	28
1023	Cerebrovascular Changes and Neurodegeneration Related to Hyperlipidemia: Characteristics of the Human ApoB-100 Transgenic Mice. 2020 , 26, 1486-1494	6
1022	Glia in neurodegeneration: Drivers of disease or along for the ride?. 2020 , 142, 104957	23
1021	Involvement of Lipids in Alzheimer's Disease Pathology and Potential Therapies. 2020 , 11, 598	65
1020	Senescence as an Amyloid Cascade: The Amyloid Senescence Hypothesis. 2020 , 14, 129	18
1019	Bloodletting Puncture at Hand Twelve -Well Points Improves Neurological Recovery by Ameliorating Acute Traumatic Brain Injury-Induced Coagulopathy in Mice. 2020 , 14, 403	6
1018	Blood-Brain Barrier, Blood-Brain Tumor Barrier, and Fluorescence-Guided Neurosurgical Oncology: Delivering Optical Labels to Brain Tumors. 2020 , 10, 739	40
1017	Targeting Inflammation, PHA-767491 Shows a Broad Spectrum in Protein Aggregation Diseases. 2020 , 70, 1140-1152	8
1016	Increased plasma bradykinin level is associated with cognitive impairment in Alzheimer's patients. 2020 , 139, 104833	15
1015	Potential therapeutic target for aging and age-related neurodegenerative diseases: the role of acid sphingomyelinase. 2020 , 52, 380-389	13
1014	In vitro modeling of the neurovascular unit: advances in the field. 2020 , 17, 22	55
1013	Aptamer-Conjugated Gold Nanoparticles Targeting Epidermal Growth Factor Receptor Variant III for the Treatment of Glioblastoma. 2020 , 15, 1363-1372	18
1012	Immunotherapy against Prion Disease. 2020 , 9,	10

1011	Cannabinoids, Blood-Brain Barrier, and Brain Disposition. 2020 , 12,	22
1010	Transcriptional and Functional Changes of the Human Microvasculature during Physiological Aging and Alzheimer Disease. 2020 , 4, e2000044	4
1009	Implicating endothelial cell senescence to dysfunction in the ageing and diseased brain. 2020 , 127, 102-110	22
1008	Nanoparticles as contrast agents for the diagnosis of Alzheimer's disease: a systematic review. 2020 , 15, 725-743	13
1007	West Nile Virus-Induced Neurologic Sequelae-Relationship to Neurodegenerative Cascades and Dementias. 2020 , 7, 25-36	7
1006	Vascularized neural constructs for ex-vivo reconstitution of blood-brain barrier function. 2020 , 245, 119980	16
1005	Magnetic Nanoparticles as In Vivo Tracers for Alzheimer's Disease. 2020 , 6, 13	4
1004	Presymptomatic Increase of an Extracellular RNA in Blood Plasma Associates with the Development of Alzheimer's Disease. 2020 , 30, 1771-1782.e3	15
1003	Alzheimer's Disease: From Amyloid to Autoimmune Hypothesis. 2020 , 26, 455-470	7
1002	Gastrointestinal (GI) Tract Microbiome-Derived Neurotoxins-Potent Neuro-Inflammatory Signals From the GI Tract via the Systemic Circulation Into the Brain. 2020 , 10, 22	15
1001	Acute Ablation of Cortical Pericytes Leads to Rapid Neurovascular Uncoupling. 2020 , 14, 27	30
1000	Breaking Barriers: Bioinspired Strategies for Targeted Neuronal Delivery to the Central Nervous System. 2020 , 12,	7
999	Overcoming blood-brain barrier transport: Advances in nanoparticle-based drug delivery strategies. 2020 , 37, 112-125	75
998	Alzheimer's disease: microglia targets and their modulation to promote amyloid phagocytosis and mitigate neuroinflammation. 2020 , 24, 331-344	20
997	Toll-Like Receptors (TLRs) in Neurodegeneration: Integrative Approach to TLR Cascades in Alzheimer's and Parkinson's Diseases. 2020 ,	2
996	Development of early diagnosis of Parkinson's disease: Illusion or reality?. 2020 , 26, 997	12
995	Blood-Brain barrier targeted nanoparticles. 2020 , 25-38	
994	Steady-state cerebral autoregulation in older adults with amnesic mild cognitive impairment: linear mixed model analysis. 2020 , 129, 377-385	3

993	Redox signalling and regulation of the blood-brain barrier. 2020 , 125, 105794	7
992	Neuronal regulation of the blood-brain barrier and neurovascular coupling. 2020 , 21, 416-432	59
991	[Secondary Neuroprotection in Glaucoma Through the Concepts of Complementary Drug Therapy]. 2020 , 237, 163-174	1
990	Neurovascular Inflammaging in Health and Disease. 2020 , 9,	23
989	Pulse Pressure: An Emerging Therapeutic Target for Dementia. 2020 , 14, 669	7
988	The role of innate immunity in Alzheimer's disease. 2020 , 297, 225-246	31
987	Naringenin (4,5,7-trihydroxyflavanone) as a potent neuroprotective agent: From chemistry to medicine. 2020 , 65, 271-300	4
986	The brains of aged mice are characterized by altered tissue diffusion properties and cerebral microbleeds. 2020 , 18, 277	4
985	Erythrocytic β -synuclein contained in microvesicles regulates astrocytic glutamate homeostasis: a new perspective on Parkinson's disease pathogenesis. 2020 , 8, 102	14
984	Nanocarrier-mediated brain delivery of bioactives for treatment/prevention of neurodegenerative diseases. 2020 , 321, 211-221	31
983	Brain injury-induced dysfunction of the blood brain barrier as a risk for dementia. 2020 , 328, 113257	26
982	Disrupted blood-brain barrier in 5BAD mouse model of Alzheimer's disease can be mimicked and repaired in vitro with neural stem cell-derived exosomes. 2020 ,	12
981	Systemic microbial TLR2 agonists induce neurodegeneration in Alzheimer's disease mice. 2020 , 17, 55	9
980	Caveolae in CNS arterioles mediate neurovascular coupling. 2020 , 579, 106-110	80
979	Nanomaterials/microorganism-integrated microbiotic nanomedicine. 2020 , 32, 100854	19
978	Perivascular spaces in the brain: anatomy, physiology and pathology. <i>Nature Reviews Neurology</i> , 2020 , 16, 137-153	15 161
977	Modulation of in vitro Brain Endothelium by Mechanical Trauma: Structural and Functional Restoration by Poloxamer 188. 2020 , 10, 3054	8
976	Modeling Nanocarrier Transport across a 3D In Vitro Human Blood-Brain-Barrier Microvasculature. 2020 , 9, e1901486	32

975	Cerebral microvascular complications of type 2 diabetes: stroke, cognitive dysfunction, and depression. 2020 , 8, 325-336	107
974	A novel role for SHARPIN in amyloid- β phagocytosis and inflammation by peripheral blood-derived macrophages in Alzheimer's disease. 2020 , 93, 131-141	10
973	Cerebrospinal fluid proteomics implicates the granin family in Parkinson's disease. 2020 , 10, 2479	19
972	Small Vessel Disease-Related Dementia: An Invalid Neurovascular Coupling?. 2020 , 21,	19
971	Nicotinamide mononucleotide (NMN) supplementation promotes neurovascular rejuvenation in aged mice: transcriptional footprint of SIRT1 activation, mitochondrial protection, anti-inflammatory, and anti-apoptotic effects. 2020 , 42, 527-546	37
970	Single-Cell Transcriptome Atlas of Murine Endothelial Cells. 2020 , 180, 764-779.e20	281
969	Cortical Superficial Siderosis: A Descriptive Analysis in a Memory Clinic Population. 2020 , 73, 1467-1479	2
968	Approaches to Monitor Circuit Disruption after Traumatic Brain Injury: Frontiers in Preclinical Research. 2020 , 21,	12
967	Molecular Tools to Detect Alloforms of A β and Tau: Implications for Multiplexing and Multimodal Diagnosis of Alzheimer's Disease. 2020 , 93, 507-546	20
966	Structural and in Vivo Characterization of Tubastatin A, a Widely Used Histone Deacetylase 6 Inhibitor. 2020 , 11, 706-712	17
965	Blood brain barrier inflammation and potential therapeutic role of phytochemicals. 2020 , 11, 100177	10
964	Mitochondrial dysfunction mediated through dynamin-related protein 1 (Drp1) propagates impairment in blood brain barrier in septic encephalopathy. 2020 , 17, 36	29
963	Current insights on lipid nanocarrier-assisted drug delivery in the treatment of neurodegenerative diseases. 2020 , 149, 192-217	34
962	Progress in Target Drug Molecules for Alzheimer's Disease. 2020 , 20, 4-36	17
961	Multifunctional Polymeric Nanoplatfoms for Brain Diseases Diagnosis, Therapy and Theranostics. 2020 , 8,	48
960	Improvements of Motor Performances in the Loss-of-Function Model of Parkinson's Disease: Effects of Dialyzed Leucocyte Extracts from Human Serum. 2020 , 10,	0
959	Neuroprotective effect of salvianolate on cerebral ischaemia-reperfusion injury in rats by inhibiting the Caspase-3 signal pathway. 2020 , 872, 172944	3
958	Dye-doped silica nanoparticles: synthesis, surface chemistry and bioapplications. 2020 , 11,	47

957	Differential Expression of CD31 and Von Willebrand Factor on Endothelial Cells in Different Regions of the Human Brain: Potential Implications for Cerebral Malaria Pathogenesis. 2020 , 10,	8
956	Soluble epoxide hydrolase inhibitor protects against blood-brain barrier dysfunction in a mouse model of type 2 diabetes via the AMPK/HO-1 pathway. 2020 , 524, 354-359	9
955	Renin-Angiotensin System and Alzheimer's Disease Pathophysiology: From the Potential Interactions to Therapeutic Perspectives. 2020 , 27, 484-511	10
954	Perfluoroalkyl chemicals in neurological health and disease: Human concerns and animal models. 2020 , 77, 155-168	14
953	Nanoemulsions for targeting the neurodegenerative diseases: Alzheimer's, Parkinson's and Prion's. 2020 , 245, 117394	29
952	APOE4 leads to blood-brain barrier dysfunction predicting cognitive decline. 2020 , 581, 71-76	356
951	Tight junction modulation at the blood-brain barrier: Current and future perspectives. 2020 , 1862, 183298	20
950	Alzheimer's disease beyond amyloid: Can the repetitive failures of amyloid-targeted therapeutics inform future approaches to dementia drug discovery?. 2020 , 177, 113945	26
949	Single-cell RNA sequencing identifies senescent cerebrovascular endothelial cells in the aged mouse brain. 2020 , 42, 429-444	32
948	Periphery-confined particulate systems for the management of neurodegenerative diseases and toxicity: Avoiding the blood-brain-barrier challenge. 2020 , 322, 286-299	6
947	Lipid nanocapsules to enhance drug bioavailability to the central nervous system. 2020 , 322, 390-400	18
946	Altered Brain Endothelial Cell Phenotype from a Familial Alzheimer Mutation and Its Potential Implications for Amyloid Clearance and Drug Delivery. 2020 , 14, 924-939	24
945	Investigation of Potential Brain Microbiome in Alzheimer's Disease: Implications of Study Bias. 2020 , 75, 559-570	10
944	Programmed Cell Deaths and Potential Crosstalk With Blood-Brain Barrier Dysfunction After Hemorrhagic Stroke. 2020 , 14, 68	35
943	Neurodegenerative Diseases - Is Metabolic Deficiency the Root Cause?. 2020 , 14, 213	62
942	Update on the Neurobiology of Vascular Cognitive Impairment: From Lab to Clinic. 2020 , 21,	36
941	Inhibition of formyl peptide receptors improves the outcome in a mouse model of Alzheimer disease. 2020 , 17, 131	13
940	Cerebrospinal Fluid/Plasma Albumin Ratio as a Biomarker for Blood-Brain Barrier Impairment Across Neurodegenerative Dementias. 2020 , 75, 429-436	13

939	A novel sensitive assay for detection of a biomarker of pericyte injury in cerebrospinal fluid. 2020 , 16, 821-830	22
938	Proteomics as a reliable approach for discovery of blood-based Alzheimer's disease biomarkers: A systematic review and meta-analysis. 2020 , 60, 101066	13
937	The Clinical Effect of Electroconvulsive Therapy and Its Relationship with Serum Levels of MMP-9 and CXCL12 in Patients with Mania. 2020 , 16, 909-914	
936	Biomaterials. 2020 , 13-23	
935	Camellia oil alleviates the progression of Alzheimer's disease in aluminum chloride-treated rats. 2020 , 152, 411-421	20
934	Multiplexed Cre-dependent selection yields systemic AAVs for targeting distinct brain cell types. 2020 , 17, 541-550	48
933	Targeting the Wnt/ β -catenin pathway in neurodegenerative diseases: recent approaches and current challenges. 2020 , 15, 803-822	12
932	Brain Barrier Systems Play No Small Roles in Toxicant-induced Brain Disorders. 2020 , 175, 147-148	7
931	Dual roles of astrocytes in plasticity and reconstruction after traumatic brain injury. 2020 , 18, 62	54
930	Recent advances in human iPSC-derived models of the blood-brain barrier. 2020 , 17, 30	40
929	The role of spreading depolarizations and electrographic seizures in early injury progression of the rat photothrombosis stroke model. 2021 , 41, 413-430	11
928	Comparative study between bone marrow mesenchymal stem cell and their conditioned medium in the treatment of rat model of Parkinsonism. 2021 , 236, 440-457	3
927	Treating brain diseases using systemic parenterally-administered protein therapeutics: Dysfunction of the brain barriers and potential strategies. 2021 , 269, 120461	2
926	A multitude of signaling pathways associated with Alzheimer's disease and their roles in AD pathogenesis and therapy. 2021 , 41, 2689-2745	3
925	Blood-Brain Barrier Permeability of Asiaticoside, Madecassoside and Asiatic Acid in Porcine Brain Endothelial Cell Model. 2021 , 110, 698-706	8
924	Increased blood-brain barrier permeability to water in the aging brain detected using noninvasive multi-TE ASL MRI. 2021 , 85, 326-333	6
923	A combination of lycopene and human amniotic epithelial cells can ameliorate cognitive deficits and suppress neuroinflammatory signaling by choroid plexus in Alzheimer's disease rat. 2021 , 88, 108558	7
922	Alzheimer Disease Pathogenesis: The Role of Autoimmunity. 2021 , 6, 756-764	5

921	Transforming nanobodies into high-precision tools for protein function analysis. 2021 , 320, C195-C215		4
920	Basic physiology of the blood-brain barrier in health and disease: a brief overview. 2021 , 9, 1840913		5
919	Neurodegenerative diseases and effective drug delivery: A review of challenges and novel therapeutics. 2021 , 330, 1152-1167		26
918	Safety, pharmacokinetics and pharmacodynamics of SBT-020 in patients with early stage Huntington's disease, a 2-part study. 2021 , 87, 2290-2302		2
917	Parkinson's disease and skin. 2021 , 82, 61-76		9
916	Human mini-brain models. 2021 , 5, 11-25		11
915	Hydrogen sulfide attenuates hyperhomocysteinemia-induced blood-brain barrier permeability by inhibiting MMP-9. 2021 , 1-11		3
914	Cerebrospinal fluid metabolites in tryptophan-kynurenine and nitric oxide pathways: biomarkers for acute neuroinflammation. 2021 , 63, 552-559		8
913	Obesity-induced cognitive impairment in older adults: a microvascular perspective. 2021 , 320, H740-H761		15
912	Neuroinflammation and microglial activation in Alzheimer disease: where do we go from here?. <i>Nature Reviews Neurology</i> , 2021 , 17, 157-172	15	262
911	Age-related ultrastructural neurovascular changes in the female mouse cortex and hippocampus. 2021 , 101, 273-284		5
910	The zonula occludens protein family regulates the hepatic barrier system in the murine liver. 2021 , 1867, 165994		6
909	Identification of Microbiota within Aβ Plaques in APP/PS1 Transgenic Mouse. 2021 , 71, 953-962		0
908	Applications of focused ultrasound in the brain: from thermoablation to drug delivery. <i>Nature Reviews Neurology</i> , 2021 , 17, 7-22	15	49
907	Abundance of P-Glycoprotein and Other Drug Transporters at the Human Blood-Brain Barrier in Alzheimer's Disease: A Quantitative Targeted Proteomic Study. 2021 , 109, 667-675		18
906	A simple novel approach for detecting blood-brain barrier permeability using GPCR internalization. 2021 , 47, 297-315		4
905	Microbiota modulation as preventative and therapeutic approach in Alzheimer's disease. 2021 , 288, 2836-2855	22	
904	Immune response and blood-brain barrier dysfunction during viral neuroinvasion. 2021 , 27, 109-117		18

903	Lychee seed polyphenol protects the blood-brain barrier through inhibiting A β (25-35)-induced NLRP3 inflammasome activation via the AMPK/mTOR/ULK1-mediated autophagy in bEnd.3 cells and APP/PS1 mice. 2021 , 35, 954-973	16
902	A Review of Translational Magnetic Resonance Imaging in Human and Rodent Experimental Models of Small Vessel Disease. 2021 , 12, 15-30	11
901	Novel therapeutic strategies for Alzheimer's disease targeting brain cholesterol homeostasis. 2021 , 53, 673-686	10
900	A comparative study on the application of machine learning algorithms for neurodegenerative disease prediction. 2021 , 283-302	
899	Microplatforms as a model for neurological conditions. 2021 , 495-509	
898	Computational Study: Noncovalent Interaction of Cys-Ala Peptide with Alkaline Earth Metal Ions and its Conformation Changes. 874, 128-135	
897	The protective effect of early dietary fat consumption on Alzheimer's disease-related pathology and cognitive function in mice. 2021 , 7, e12173	0
896	Nervous system. 2021 , 433-446	
895	Intravenous and Non-invasive Drug Delivery to the Mouse Basal Forebrain Using MRI-guided Focused Ultrasound. 2021 , 11, e4056	1
894	Observational cohort study of neurological involvement among patients with SARS-CoV-2 infection. 2021 , 14, 1756286421993701	15
893	Programmable DNA Nanodevices for Applications in Neuroscience. 2021 , 12, 363-377	4
892	3D Alzheimer's disease in a dish: Implications for drug discovery. 2021 , 311-331	
891	Thrombin generation and activity in multiple sclerosis. 2021 , 36, 407-420	2
890	Insight into the genetic etiology of Alzheimer's disease: A comprehensive review of the role of rare variants. 2021 , 13, e12155	4
889	Changes of blood-brain-barrier function and transfer of amyloid beta in rats with collagen-induced arthritis. 2021 , 18, 35	4
888	Polymeric nanocarriers for delivery of combination drugs. 2021 , 85-118	
887	Alzheimer's disease neuropathology is exacerbated following traumatic brain injury. Neuroprotection by co-administration of nanowired mesenchymal stem cells and cerebrolysin with monoclonal antibodies to amyloid beta peptide. 2021 , 265, 1-97	0
886	Molecular subtyping of Alzheimer's disease using RNA sequencing data reveals novel mechanisms and targets. 2021 , 7,	39

885	Multiple sclerosis and subclinical neuropathology in healthy individuals with familial risk: A scoping review of MRI studies. 2021 , 31, 102734	
884	Neuroimmune connections between corticotropin-releasing hormone and mast cells: novel strategies for the treatment of neurodegenerative diseases. 2021 , 16, 2184-2197	2
883	Restoration of the reduced CLSP activity alleviates memory impairment in Alzheimer disease. 2021 , 11, 44	2
882	Dendrimer-tesaglitazar conjugate induces a phenotype shift of microglia and enhances β amyloid phagocytosis. 2021 , 13, 939-952	7
881	Structural disruption of the blood-brain barrier in repetitive primary blast injury. 2021 , 18, 2	5
880	From the low-density lipoprotein receptor-related protein 1 to neuropathic pain: a potentially novel target. 2021 , 6, e898	5
879	Nanomaterials for Medical Imaging and In Vivo Sensing. 2021 , 335-403	
878	Caspase-1: an important player and possible target for repair of the blood-brain barrier underlying neurodegeneration. 2021 , 16, 2390-2392	1
877	Modular machine learning for Alzheimer's disease classification from retinal vasculature. 2021 , 11, 238	19
876	Insights on supporting the aging brain microvascular endothelium. 2021 , 1, 100009-100009	1
875	Human brain organoids in Alzheimer's disease. 2021 , 1, e5	0
874	Toward three-dimensional models to study neurovascular unit functions in health and disease. 2021 , 16, 2132-2140	8
873	Development, Characterization and Potential Applications of a Multicellular Spheroidal Human Blood-Brain Barrier Model Integrating Three Conditionally Immortalized Cell Lines. 2021 , 44, 984-991	0
872	New Vistas in Stroke Treatment: Targeting the Endothelium to Restore Blood Flow. 2021 , 128, 383-385	
871	Losartan Improves Memory, Neurogenesis and Cell Motility in Transgenic Alzheimer's Mice. 2021 , 14,	3
870	Overview of COVID-19 and neurological complications. 2021 , 32, 671-691	4
869	Prospective Role of Polyphenolic Compounds in the Treatment of Neurodegenerative Diseases. 2021 , 20, 430-450	18
868	Homocysteine in Neurology: A Possible Contributing Factor to Small Vessel Disease. 2021 , 22,	9

867	APOE immunotherapy reduces cerebral amyloid angiopathy and amyloid plaques while improving cerebrovascular function. 2021 , 13,	23
866	Single-Cell Analysis of Blood-Brain Barrier Response to Pericyte Loss. 2021 , 128, e46-e62	23
865	Peripheral Blood and Salivary Biomarkers of Blood-Brain Barrier Permeability and Neuronal Damage: Clinical and Applied Concepts. 2020 , 11, 577312	16
864	Head injury in mixed martial arts: a review of epidemiology, affected brain structures and risks of cognitive decline. 2021 , 49, 371-380	1
863	Endothelial Progenitor Cell-Derived Microvesicles Promote Angiogenesis in Rat Brain Microvascular Endothelial Cells. 2021 , 15, 638351	3
862	Extracellular Vesicles From 3xTg-AD Mouse and Alzheimer's Disease Patient Astrocytes Impair Neuroglial and Vascular Components. 2021 , 13, 593927	6
861	Models of the Blood-Brain Barrier: Tools in Translational Medicine.. 2020 , 2, 623950	10
860	Rethinking CRITID Procedure of Brain Targeting Drug Delivery: Circulation, Blood Brain Barrier Recognition, Intracellular Transport, Diseased Cell Targeting, Internalization, and Drug Release. 2021 , 8, 2004025	33
859	Implication of Nicotinamide Adenine Dinucleotide Phosphate (NADPH) Oxidase and Its Inhibitors in Alzheimer's Disease Murine Models. 2021 , 10,	6
858	Common Peripheral Immunity Mechanisms in Multiple Sclerosis and Alzheimer's Disease. 2021 , 12, 639369	12
857	Critical Review of Lipid-Based Nanoparticles as Carriers of Neuroprotective Drugs and Extracts. 2021 , 11,	8
856	Extending the Calpain-Cathepsin Hypothesis to the Neurovasculature: Protection of Brain Endothelial Cells and Mice from Neurotrauma. 2021 , 4, 372-385	2
855	Machine Learning Profiling of Alzheimer's Disease Patients Based on Current Cerebrospinal Fluid Markers and Iron Content in Biofluids. 2021 , 13, 607858	3
854	Endothelial Iron Homeostasis Regulates Blood-Brain Barrier Integrity via the HIF2 β -Cadherin Pathway. 2021 , 13,	6
853	Immune Profiling of Parkinson's Disease Revealed Its Association With a Subset of Infiltrating Cells and Signature Genes. 2021 , 13, 605970	1
852	COVID-19 and dementia: Analyses of risk, disparity, and outcomes from electronic health records in the US. 2021 , 17, 1297-1306	68
851	Citrus Polyphenols in Brain Health and Disease: Current Perspectives. 2021 , 15, 640648	12
850	T Cells Actively Infiltrate the White Matter of the Aging Monkey Brain in Relation to Increased Microglial Reactivity and Cognitive Decline. 2021 , 12, 607691	8

849	The Neurovascular Unit Dysfunction in Alzheimer's Disease. 2021 , 22,	25
848	Associations of Vascular Risk with Cognition, Brain Glucose Metabolism, and Clinical Progression in Cognitively Intact Elders. 2021 , 80, 321-330	1
847	Crosstalk among Calcium ATPases: PMCA, SERCA and SPCA in Mental Diseases. 2021 , 22,	2
846	[Spatiotemporally Dependent Vascularization Regulates Neural Stem and Progenitor Cells]. 2021 , 141, 335-341	
845	Multi-scale brain simulation with integrated positron emission tomography yields hidden local field potential activity that augments machine learning classification of Alzheimer's disease.	2
844	The region-selective regulation of endothelial claudin-5 expression and signaling in brain health and disorders. 2021 , 236, 7134-7143	2
843	Repurposing Immunomodulatory Imide Drugs (IMiDs) in Neuropsychiatric and Neurodegenerative Disorders. 2021 , 15, 656921	6
842	Conserved and context-dependent roles for Pdgfrb signaling during zebrafish vascular mural cell development.	
841	Alcohol-Induced Blood-Brain Barrier Impairment: An In Vitro Study. 2021 , 18,	4
840	Effects of Alzheimer's Disease-Related Proteins on the Chirality of Brain Endothelial Cells. 2021 , 14, 231-240	3
839	Integrated Multi-Omic Analyses of the Genomic Modifications by Gut Microbiome-Derived Metabolites of Epicatechin, 5-(4'-Hydroxyphenyl)-Valerolactone, in TNF α -Stimulated Primary Human Brain Microvascular Endothelial Cells. 2021 , 15, 622640	7
838	Endothelin-1 mediated vasoconstriction leads to memory impairment and synaptic dysfunction. 2021 , 11, 4868	2
837	Sex differences in the blood-brain barrier and neurodegenerative diseases. 2021 , 5, 011509	19
836	NG2/CSPG4, CD146/MCAM and VAP1/AOC3 are regulated by myocardin-related transcription factors in smooth muscle cells. 2021 , 11, 5955	1
835	Inflammation, depression, and anxiety related to recognition memory in young adults. 2021 , 1-25	0
834	Exploring Common Therapeutic Targets for Neurodegenerative Disorders Using Transcriptome Study. 2021 , 12, 639160	3
833	Biochemical- and Biophysical-Induced Barrierogenesis in the Blood-Brain Barrier: A Review of Barrierogenic Factors for Use in In Vitro Models. 2021 , 1, 2000068	0
832	Blood-brain barrier integrity is the primary target of alcohol abuse. 2021 , 337, 109400	1

831	Pericytes Across the Lifetime in the Central Nervous System. 2021 , 15, 627291	7
830	Hsp90 inhibition protects the brain microvascular endothelium against oxidative stress. 2021 , 1,	7
829	Cerebrovascular development: mechanisms and experimental approaches. 2021 , 78, 4377-4398	4
828	Natural and Semi-synthetic Licarins: Neolignans with Multi-functional Biological Properties. 2021 , 31, 257-271	0
827	Age-related changes in cerebrovascular health and their effects on neural function and cognition: A comprehensive review. 2021 , 58, e13796	13
826	A Commonly Used Biocide 2-N-octyl-4-isothiazolin-3-one Induces Blood-Brain Barrier Dysfunction via Cellular Thiol Modification and Mitochondrial Damage. 2021 , 22,	4
825	Physical Exercise and Alzheimer's Disease: Effects on Pathophysiological Molecular Pathways of the Disease. 2021 , 22,	8
824	Volumetric distribution of perivascular space in relation to mild cognitive impairment. 2021 , 99, 28-43	8
823	Alzheimer's disease pathology is associated with earlier alterations to blood-brain barrier water permeability compared with healthy ageing in TgF344-AD rats. 2021 , 34, e4510	7
822	miR-124: A Promising Therapeutic Target for Central Nervous System Injuries and Diseases. 2021 , 1	2
821	Impact of rs243865 and rs3025058 Polymorphisms on Clinical Findings in Alzheimer's Disease Patients. 2021 , 2021, 5573642	1
820	Screening for Interacting Proteins with Peptide Biomarker of Blood-Brain Barrier Alteration under Inflammatory Conditions. 2021 , 22,	1
819	Catalytic nanozymes for central nervous system disease. 2021 , 432, 213751	15
818	The role of gut dysbiosis in Parkinson's disease: mechanistic insights and therapeutic options. 2021 , 144, 2571-2593	16
817	CNS-Draining Meningeal Lymphatic Vasculature: Roles, Conundrums and Future Challenges. 2021 , 12, 655052	10
816	Alteration in the Cerebrospinal Fluid Lipidome in Parkinson's Disease: A Post-Mortem Pilot Study. 2021 , 9,	11
815	Vascular Hypothesis of Alzheimer Disease: Topical Review of Mouse Models. 2021 , 41, 1265-1283	7
814	Preclinical Evaluation of TSPO and MAO-B PET Radiotracers in an LPS Model of Neuroinflammation. 2021 , 16, 233-247	3

813	Brain-Targeted Dual Site-Selective Functionalized Poly(EAmino Esters) Delivery Platform for Nerve Regeneration. 2021 , 21, 3007-3015	6
812	Meningeal lymphatics affect microglia responses and anti-A β immunotherapy. 2021 , 593, 255-260	45
811	Vascular and perivascular cell profiling reveals the molecular and cellular bases of blood-brain barrier heterogeneity.	2
810	Intravenous infusion of mesenchymal stem cells delays disease progression in the SOD1G93A transgenic amyotrophic lateral sclerosis rat model. 2021 , 1757, 147296	5
809	Blood-brain barrier disruption in atrial fibrillation: a potential contributor to the increased risk of dementia and worsening of stroke outcomes?. 2021 , 11, 200396	2
808	Evidence for Peripheral Immune Activation in Parkinson's Disease. 2021 , 13, 617370	2
807	Single-cell dissection of the human cerebrovasculature in health and disease.	4
806	A human brain vascular atlas reveals diverse cell mediators of Alzheimer's disease risk.	13
805	Demonstration of age-related blood-brain barrier disruption and cerebromicrovascular rarefaction in mice by longitudinal intravital two-photon microscopy and optical coherence tomography. 2021 , 320, H1370-H1392	6
804	Bridging Scales in Alzheimer's Disease: Biological Framework for Brain Simulation With The Virtual Brain. 2021 , 15, 630172	1
803	Cholesterol-rich nanoemulsion (LDE) as a novel drug delivery system to diagnose, delineate, and treat human glioblastoma. 2021 , 123, 111984	5
802	Is There an Interconnection between Epithelial-Mesenchymal Transition (EMT) and Telomere Shortening in Aging?. 2021 , 22,	2
801	Alzheimer's disease. 2021 , 397, 1577-1590	245
800	Relationship between Brain Tissue Changes and Blood Biomarkers of Cyclophilin A, Heme Oxygenase-1, and Inositol-Requiring Enzyme 1 in Patients with Alzheimer's Disease. 2021 , 11,	1
799	Elevated Inflammatory Markers and Arterial Stiffening Exacerbate Tau but Not Amyloid Pathology in Older Adults with Mild Cognitive Impairment. 2021 , 80, 1451-1463	2
798	Three-dimensional remodeling of functional cerebrovascular architecture and gliovascular unit in leptin receptor-deficient mice. 2021 , 41, 1547-1562	1
797	Impaired cerebral microcirculation in isolated REM sleep behaviour disorder. 2021 , 144, 1498-1508	1
796	In vivo/Ex Vivo EPR Investigation of the Brain Redox Status and Blood-Brain Barrier Integrity in the 5xFAD Mouse Model of Alzheimer's Disease. 2021 ,	0

795	Hemostasis components in cerebral amyloid angiopathy and Alzheimer's disease. 2021 , 42, 3177-3188	2
794	The application of multifunctional nanomaterials in Alzheimer's disease: A potential theranostics strategy. 2021 , 137, 111360	3
793	Neuroinflammation in Alzheimer's Disease. 2021 , 9,	30
792	The neurology of lupus. 2021 , 424, 117419	3
791	Bacille Calmette-Guérin attenuates vascular amyloid pathology and maximizes synaptic preservation in APP/PS1 mice following active amyloid- β immunotherapy. 2021 , 101, 94-108	2
790	Single-nucleus transcriptomic landscape of primate hippocampal aging. 2021 , 12, 695-716	6
789	Longitudinal Neurocognitive and Pulmonological Profile of Long COVID-19: Protocol for the COVIMMUNE-Clin Study. 2021 , 10, e30259	0
788	Poloxamer 188 (P188), A Potential Polymeric Protective Agent for Central Nervous System Disorders: A Systematic Review. 2021 ,	2
787	Reactive Oxygen Species-Induced TRPM2-Mediated Ca Signalling in Endothelial Cells. 2021 , 10,	5
786	Nutraceutical and therapeutic potential of Phycocyanobilin for treating Alzheimer's disease. 2021 , 46, 1	4
785	Contribution of Gut Microbiota to Immunological Changes in Alzheimer's Disease. 2021 , 12, 683068	6
784	Longitudinal Neurocognitive and Pulmonological Profile of Long-Covid: the COVIMMUNE-Clin Study Protocol (Preprint).	
783	Astroglial Connexins in Neurodegenerative Diseases. 2021 , 14, 657514	3
782	On the intersection between systemic infection, brain vascular dysfunction and dementia. 2021 , 144, 1629-1631	
781	Current State of Targeted Radiometal-Based Constructs for the Detection and Treatment of Disease in the Brain. 2021 , 32, 1331-1347	1
780	Endothelial genetic deletion of CD147 induces changes in the dual function of the blood-brain barrier and is implicated in Alzheimer's disease. 2021 , 27, 1048	3
779	An engineered neurovascular unit for modeling neuroinflammation. 2021 , 13,	7
778	The Consumption of Energy Drinks Induces Blood-Brain Barrier Dysfunction in Wild-Type Mice. 2021 , 8, 668514	0

777	Ubiquinone Metabolism and Transcription HIF-1 Targets Pathway Are Toxicity Signature Pathways Present in Extracellular Vesicles of Paraquat-Exposed Human Brain Microvascular Endothelial Cells. 2021 , 22,	0
776	Insulin Resistance and Blood-Brain Barrier Dysfunction Underlie Neuroprogression in Bipolar Disorder. 2021 , 12, 636174	2
775	Personalizing the Care and Treatment of Alzheimer's Disease: An Overview. 2021 , 14, 631-653	
774	The Pathogenesis of Parkinson's Disease: A Complex Interplay Between Astrocytes, Microglia, and T Lymphocytes?. 2021 , 12, 666737	12
773	The contact activation system and vascular factors as alternative targets for Alzheimer's disease therapy. 2021 , 5, e12504	3
772	The Microbiota-Gut-Brain Axis and Alzheimer Disease. From Dysbiosis to Neurodegeneration: Focus on the Central Nervous System Glial Cells. 2021 , 10,	6
771	Evolving Role of Natural Products from Traditional Medicinal Herbs in the Treatment of Alzheimer's Disease. 2021 , 12, 2718-2728	3
770	Emerging Nanotechnology for Treatment of Alzheimer's and Parkinson's Disease. 2021 , 9, 672594	6
769	Knowledge gaps in Alzheimer's disease immune biomarker research. 2021 ,	3
768	Non-productive angiogenesis disassembles A β plaque-associated blood vessels. 2021 , 12, 3098	8
767	Endothelial Tpl2 regulates vascular barrier function via JNK-mediated degradation of claudin-5 promoting neuroinflammation or tumor metastasis. 2021 , 35, 109168	4
766	Cerebrovascular Anomalies: Perspectives From Immunology and Cerebrospinal Fluid Flow. 2021 , 129, 174-194	4
765	Miniaturization and Automation of a Human In Vitro Blood-Brain Barrier Model for the High-Throughput Screening of Compounds in the Early Stage of Drug Discovery. 2021 , 13,	2
764	Protective Effects of Complement Component 8 Gamma Against Blood-Brain Barrier Breakdown. 2021 , 12, 671250	0
763	Blood-Brain Barrier Dysfunction in the Detrimental Brain Function.	2
762	"Don't Phos Over Tau": recent developments in clinical biomarkers and therapies targeting tau phosphorylation in Alzheimer's disease and other tauopathies. 2021 , 16, 37	17
761	Development of Novel Therapeutics Targeting the Blood-Brain Barrier: From Barrier to Carrier. 2021 , 8, e2101090	16
760	LncRNA VEAL2 regulates PRKCB2 to modulate endothelial permeability in diabetic retinopathy. 2021 , 40, e107134	9

759	Nanomaterials toward the treatment of Alzheimer's disease: Recent advances and future trends. 2021 , 32, 1857-1868	9
758	Exploring the changes of brain immune microenvironment in Alzheimer's disease based on PANDA algorithm combined with blood brain barrier injury-related genes. 2021 , 557, 159-165	2
757	Blood-Brain Barrier Breakdown in Stress and Neurodegeneration: Biochemical Mechanisms and New Models for Translational Research. 2021 , 86, 746-760	2
756	The Neuroinflammatory Role of Pericytes in Epilepsy. 2021 , 9,	4
755	Modifiable Risk Factors in Alzheimer Disease and Related Dementias: A Review. 2021 , 43, 953-965	7
754	Role of Neuron and Glia in Alzheimer's Disease and Associated Vascular Dysfunction. 2021 , 13, 653334	8
753	Promoting Successful Cognitive Aging: A Ten-Year Update. 2021 , 81, 871-920	16
752	Sequence-Based Prediction of Transmembrane Protein Crystallization Propensity. 2021 , 13, 693-702	
751	An Abnormal Meningeal Lymphatic System Can Complicate Alzheimer's Treatment. 2021 , 21, 12-13	
750	Inflammatory Environment Promotes the Adhesion of Tumor Cells to Brain Microvascular Endothelial Cells. 2021 , 11, 691771	0
749	High concentration of blood cobalt is associated with the impairment of blood-brain barrier permeability. 2021 , 273, 129579	5
748	Hospital-treated infectious diseases and the risk of dementia: a large, multicohort, observational study with a replication cohort. 2021 , 21, 1557-1567	19
747	Neurotrophic Factors in Parkinson's Disease: Clinical Trials, Open Challenges and Nanoparticle-Mediated Delivery to the Brain. 2021 , 15, 682597	7
746	Shared Genetic Etiology between Alzheimer's Disease and Blood Levels of Specific Cytokines and Growth Factors. 2021 , 12,	0
745	Dose-effect relationships for PBM in the treatment of Alzheimer's disease. 2021 , 54, 353001	2
744	Microvascular basis of cognitive impairment in type 1 diabetes. 2021 , 229, 107929	1
743	 2021 , 86, 917-932	0
742	Brain Disposition of Antibody-Based Therapeutics: Dogma, Approaches and Perspectives. 2021 , 22,	5

741	Neurologists in India Face Off Against a New Devastating Surge of COVID-19. 2021 , 21, 10-12	
740	Careful feature selection is key in classification of Alzheimer's disease patients based on whole-genome sequencing data. 2021 , 3, lqab069	0
739	Supramolecular Macrophage-Liposome Marriage for Cell-Hitchhiking Delivery and Immunotherapy of Acute Pneumonia and Melanoma. 2021 , 31, 2102440	12
738	Impaired Cerebrovascular Reactivity in Huntington's Disease. 2021 , 12, 663898	0
737	A General Approach to Convert Hemicyanine Dyes into Highly Optimized Photoacoustic Scaffolds for Analyte Sensing**. 2021 , 133, 19008-19014	4
736	Sepsis-Associated Encephalopathy and Blood-Brain Barrier Dysfunction. 2021 , 44, 2143-2150	8
735	Relationship Between Amyloid- β Deposition and Blood-Brain Barrier Dysfunction in Alzheimer's Disease. 2021 , 15, 695479	14
734	A General Approach to Convert Hemicyanine Dyes into Highly Optimized Photoacoustic Scaffolds for Analyte Sensing*. 2021 , 60, 18860-18866	16
733	Reactive astrocytes: The nexus of pathological and clinical hallmarks of Alzheimer's disease. 2021 , 68, 101335	15
732	Single-Cell Microwell Platform Reveals Circulating Neural Cells as a Clinical Indicator for Patients with Blood-Brain Barrier Breakdown. 2021 , 2021, 9873545	0
731	Dysregulation of complement and coagulation pathways: emerging mechanisms in the development of psychosis. 2021 ,	4
730	Roles of Non-Coding RNAs as Novel Diagnostic Biomarkers in Parkinson's Disease. 2021 , 11, 1475-1489	1
729	Secondary White Matter Injury and Therapeutic Targets After Subarachnoid Hemorrhage. 2021 , 12, 659740	2
728	Emerging pathogenic role of peripheral blood factors following BBB disruption in neurodegenerative disease. 2021 , 68, 101333	8
727	Plasma oxysterols: Altered level of plasma 24-hydroxycholesterol in patients with bipolar disorder. 2021 , 211, 105902	3
726	Aging-Related Tau Astroglipathy in Aging and Neurodegeneration. 2021 , 11,	1
725	Obstructive Sleep Apnea, Hypercoagulability, and the Blood-Brain Barrier. 2021 , 10,	4
724	Lanthanum(III) triggers AtrbohD- and jasmonic acid-dependent systemic endocytosis in plants. 2021 , 12, 4327	2

723	Solid Lipid Nanoparticles (SLNs): An Advanced Drug Delivery System Targeting Brain through BBB. 2021 , 13,	18
722	Biology and Models of the Blood-Brain Barrier. 2021 , 23, 359-384	27
721	Editorial for "MRI-Based Investigation of Association Between Cerebrovascular Structural Alteration and White Matter Hyperintensity Induced by High Blood Pressure". 2021 , 54, 1527-1528	
720	Differential RNA packaging into small extracellular vesicles by neurons and astrocytes. 2021 , 19, 75	1
719	Brain endothelial PTEN/AKT/NEDD4-2/MFSD2A axis regulates blood-brain barrier permeability. 2021 , 36, 109327	6
718	Nanotechnology-Based Strategies for Early Diagnosis of Central Nervous System Disorders. 2021 , 1, 2100008	3
717	Exosomes as a potential messenger unit during heterochronic parabiosis for amelioration of Huntington's disease. 2021 , 155, 105374	5
716	Importance of extracellular vesicle secretion at the blood-cerebrospinal fluid interface in the pathogenesis of Alzheimer's disease. 2021 , 9, 143	10
715	Amyloid- disrupts unitary calcium entry through endothelial NMDA receptors in mouse cerebral arteries. 2021 , 271678X211039592	3
714	Masitinib for the treatment of Alzheimer's disease. 2021 , 11, 263-276	2
713	Blood-Brain Barrier Breakdown: An Emerging Biomarker of Cognitive Impairment in Normal Aging and Dementia. 2021 , 15, 688090	22
712	Microvascular Contribution to Late-Onset Depression: Mechanisms, Current Evidence, Association With Other Brain Diseases, and Therapeutic Perspectives. 2021 , 90, 214-225	7
711	APOE signaling in neurodegenerative diseases: an integrative approach targeting APOE coding and noncoding variants for disease intervention. 2021 , 69, 58-67	3
710	Is Oxidative Stress the Link Between Cerebral Small Vessel Disease, Sleep Disruption, and Oligodendrocyte Dysfunction in the Onset of Alzheimer's Disease?. 2021 , 12, 708061	4
709	Evolution of blood-brain barrier in brain diseases and related systemic nanoscale brain-targeting drug delivery strategies. 2021 , 11, 2306-2325	33
708	Emerging Nano-Carrier Strategies for Brain Tumor Drug Delivery and Considerations for Clinical Translation. 2021 , 13,	4
707	Neuroprotective effects of coenzyme Q10 in Parkinson's model via a novel Q10/miR-149-5p/MMPs pathway. 2021 , 36, 2089-2100	1
706	Modeling Sporadic Alzheimer's Disease in Human Brain Organoids under Serum Exposure. 2021 , 8, e2101462	10

705	Cell Type-Specific Nuclei Markers: The Need for Human Brain Research to Go Nuclear. 2021 , 10738584211037351	
704	Microbiota-Gut-Brain Communication in the SARS-CoV-2 Infection. 2021 , 10,	6
703	Cognitive Effects of the BET Protein Inhibitor Apabetalone: A Prespecified Montreal Cognitive Assessment Analysis Nested in the BETonMACE Randomized Controlled Trial. 2021 , 83, 1703-1715	3
702	Retinal Dysfunction in Alzheimer's Disease and Implications for Biomarkers. 2021 , 11,	1
701	A new definition about the relationship of intercellular fluid in the brain with the mandibular and parotid lymph nodes. 2021 ,	1
700	Transcriptomic Analysis of HCN-2 Cells Suggests Connection among Oxidative Stress, Senescence, and Neuron Death after SARS-CoV-2 Infection. 2021 , 10,	0
699	Imaging asparaginyl endopeptidase (AEP) in the live brain as a biomarker for Alzheimer's disease. 2021 , 19, 249	1
698	Dynamic nanoassemblies for imaging and therapy of neurological disorders. 2021 , 175, 113832	0
697	Role of Notch signaling in neurovascular aging and Alzheimer's disease. 2021 , 116, 90-97	5
696	Role of microRNAs in glioblastoma. 2021 , 12, 1707-1723	4
695	The Amyloid- β Pathway in Alzheimer's Disease. 2021 ,	63
694	Failure of the choroid plexus in Alzheimer's disease.	0
693	Nano-scale Architecture of Blood-Brain Barrier Tight-Junctions.	0
692	Cholesterol-induced toxicity: An integrated view of the role of cholesterol in multiple diseases. 2021 , 33, 1911-1925	8
691	Low-dose lanthanum activates endocytosis, aggravating accumulation of lanthanum or/and lead and disrupting homeostasis of essential elements in the leaf cells of four edible plants. 2021 , 221, 112429	5
690	Near-infrared target enhanced peripheral clearance of amyloid- β in Alzheimer's disease model. 2021 , 276, 121065	3
689	Effects of apolipoprotein E isoform, sex, and diet on insulin BBB pharmacokinetics in mice. 2021 , 11, 18636	0
688	SCFAs promote intestinal double-negative T cells to regulate the inflammatory response mediated by NLRP3 inflammasome. 2021 , 13, 21470-21482	3

687	From psychiatry to neurology: Psychedelics as prospective therapeutics for neurodegenerative disorders. 2021 ,	5
686	A Quasi-Physiological Microfluidic Blood-Brain Barrier Model for Brain Permeability Studies. 2021 , 13,	3
685	Shotgun-based proteomics of extracellular vesicles in Alzheimer's disease reveals biomarkers involved in immunological and coagulation pathways. 2021 , 11, 18518	2
684	The "Neuro-Glial-Vascular" Unit: The Role of Glia in Neurovascular Unit Formation and Dysfunction. 2021 , 9, 732820	8
683	Internal Jugular Vein Velocity and Spontaneous Echo Contrast Correlate with Alzheimer's Disease and Cognitive Function. 2021 , 84, 787-796	1
682	Paraquat-induced cholesterol biosynthesis proteins dysregulation in human brain microvascular endothelial cells. 2021 , 11, 18137	1
681	Lipocalin 2 as a link between ageing, risk factor conditions and age-related brain diseases. 2021 , 70, 101414	6
680	The neuromicrobiology of Parkinson's disease: A unifying theory. 2021 , 70, 101396	11
679	Western diet as a trigger of Alzheimer's disease: From metabolic syndrome and systemic inflammation to neuroinflammation and neurodegeneration. 2021 , 70, 101397	21
678	Estradiol Inhibits Human Brain Vascular Pericyte Migration Activity: A Functional and Transcriptomic Analysis. 2021 , 10,	1
677	Control of hippocampal prothrombin kringle-2 (pKr-2) expression reduces neurotoxic symptoms in five familial Alzheimer's disease mice. 2021 ,	0
676	The Impact of Ageing on the CNS Immune Response in Alzheimer's Disease. 2021 , 12, 738511	4
675	Preservation Analysis on Spatiotemporal Specific Co-expression Networks Suggests the Immunopathogenesis of Alzheimer's Disease. 2021 , 13, 727928	
674	Retinal Vasculopathy in Alzheimer's Disease. 2021 , 15, 731614	5
673	Oridonin prevents oxidative stress-induced endothelial injury via promoting Nrf-2 pathway in ischaemic stroke. 2021 , 25, 9753-9766	5
672	Microfluidic Platforms to Unravel Mysteries of Alzheimer's Disease: How Far Have We Come?. 2021 , 11,	1
671	New RNA-Based Breakthroughs in Alzheimer's Disease Diagnosis and Therapeutics. 2021 , 13,	2
670	Neurofilament Proteins as Biomarkers to Monitor Neurological Diseases and the Efficacy of Therapies. 2021 , 15, 689938	10

669	A review of bioeffects induced by focused ultrasound combined with microbubbles on the neurovascular unit. 2021 , 271678X211046129		0
668	Peripheral and central immune system crosstalk in Alzheimer disease - a research prospectus. <i>Nature Reviews Neurology</i> , 2021 , 17, 689-701	15	18
667	Surgical Menopause and Estrogen Therapy Modulate the Gut Microbiota, Obesity Markers, and Spatial Memory in Rats. 2021 , 11, 702628		1
666	Cerebral Blood Flow in Chronic Kidney Disease. 2021 , 30, 105702		3
665	A functional cerebral endothelium is necessary to protect against cognitive decline. 2021 , 271678X211045438	5	
664	Aging reduces calreticulin expression and alters spontaneous calcium signals in astrocytic endfeet of the mouse dorsolateral striatum.		0
663	Potential neurotoxicity of titanium implants: Prospective, in-vivo and in-vitro study. 2021 , 276, 121039		4
662	Ketones: potential to achieve brain energy rescue and sustain cognitive health during ageing. 2021 , 1-17		0
661	Bile acid receptors and signaling crosstalk in the liver, gut and brain. 2021 , 5, 105-118		4
660	Alterations in the gut microbiota contribute to cognitive impairment induced by the ketogenic diet and hypoxia. 2021 , 29, 1378-1392.e6		7
659	Age-associated changes in microglia and astrocytes ameliorate blood-brain barrier dysfunction. 2021 , 26, 970-986		1
658	Involvement of cerebrovascular abnormalities in the pathogenesis and progression of Alzheimer's disease: an adrenergic approach. 2021 , 13, 21791-21806		2
657	The crosstalk between brain and periphery: Implications for brain health and disease. 2021 , 197, 108728		6
656	A review of the functions of G protein-coupled estrogen receptor 1 in vascular and neurological aging. 2021 , 908, 174363		4
655	Systems modeling of metabolic dysregulation in neurodegenerative diseases. 2021 , 60, 59-65		1
654	Quantum dot: Heralding a brighter future in neurodegenerative disorders. 2021 , 65, 102700		4
653	An update on Alzheimer's disease: Immunotherapeutic agents, stem cell therapy and gene editing. 2021 , 282, 119790		2
652	Magnetic Resonance Imaging of Blood-Brain Barrier permeability in Dementia. 2021 , 474, 14-29		5

651	Microbiota-gut-brain axis and Alzheimer's disease: Implications of the blood-brain barrier as an intervention target. 2021 , 199, 111560	3
650	The histone code in dementia: Transcriptional and chromatin plasticity fades away. 2021 , 60, 117-122	0
649	The neuroprotective potential of carotenoids in vitro and in vivo. 2021 , 91, 153676	7
648	Conserved and context-dependent roles for pdgfrb signaling during zebrafish vascular mural cell development. 2021 , 479, 11-22	1
647	Lysophosphatidylcholine induces apoptosis and inflammatory damage in brain microvascular endothelial cells via GPR4-mediated NLRP3 inflammasome activation. 2021 , 77, 105227	4
646	Diagnostic biomarkers in Alzheimer's disease. 2021 , 5, 100041	2
645	Diagnostic and theranostic intranasal nanointerventions for brain diseases. 2021 , 287-303	0
644	Blood-Brain Barrier Disruption Increases Amyloid-Related Pathology in TgSwDI Mice. 2021 , 22,	4
643	FDG-PET in presymptomatic C9orf72 mutation carriers. 2021 , 31, 102687	2
642	Diagnosis and treatment for normal pressure hydrocephalus: From biomarkers identification to outcome improvement with combination therapy.. 2022 , 34, 35-43	0
641	Occurrence of Morpholine in Central Nervous System Drug Discovery. 2021 , 12, 378-390	7
640	Advances in Research of Adult Gliomas. 2021 , 22,	8
639	ICU Delirium in the Era of the COVID-19 Pandemic. 2021 , 267-280	
638	Endothelial C3a receptor mediates vascular inflammation and blood-brain barrier permeability during aging. 2021 , 131,	26
637	3D Self-Organized Human Blood-Brain Barrier in a Microfluidic Chip. 2021 , 2258, 205-219	5
636	The Evolving Role of Specialized Pro-resolving Mediators in Modulating Neuroinflammation in Perioperative Neurocognitive Disorders. 2019 , 1161, 27-35	2
635	Advances in Retinal Imaging: Retinal Amyloid Imaging. 2020 , 83-122	1
634	Neurodegenerative Diseases: Alzheimer Disease (AD). 2019 , 897-931	1

633	Immortalised Hippocampal Astrocytes from 3xTG-AD Mice Fail to Support BBB Integrity In Vitro: Role of Extracellular Vesicles in Glial-Endothelial Communication. 2021 , 41, 551-562	12
632	Turning weakness into strength: Albumin nanoparticle-redirected amphotericin B biodistribution for reducing nephrotoxicity and enhancing antifungal activity. 2020 , 324, 657-668	8
631	Impaired Amyloid Beta Clearance and Brain Microvascular Dysfunction are Present in the Tg-SwDI Mouse Model of Alzheimer's Disease. 2020 , 440, 48-55	4
630	Intracranial vascular flow oscillations in Alzheimer's disease from 4D flow MRI. 2020 , 28, 102379	5
629	Understanding multifactorial brain changes in type 2 diabetes: a biomarker perspective. 2020 , 19, 699-710	35
628	Chemo-physical Strategies to Advance the Functionality of Targeted Nanomedicine: The Next Generation. 2021 , 143, 538-559	54
627	Inflammation: major denominator of obesity, Type 2 diabetes and Alzheimer's disease-like pathology?. 2020 , 134, 547-570	18
626	Pathophysiological subtypes of Alzheimer's disease based on cerebrospinal fluid proteomics. 2020 , 143, 3776-3792	16
625	Analysis of brain atrophy and local gene expression in genetic frontotemporal dementia.	2
624	Alteration of perivascular spaces in early cognitive decline.	2
623	A single domain shark antibody targeting the transferrin receptor 1 delivers a TrkB agonist antibody across the blood brain barrier to provide full neuroprotection in a mouse model of Parkinson's Disease.	1
622	Immortalised hippocampal astrocytes from 3xTG-AD mice fail to support BBB integrity in vitro: Role of extracellular vesicles in glial-endothelial communication.	1
621	Secondary single-cell transcriptomic analysis reveals common molecular signatures of cerebrovascular injury between traumatic brain injury and aging.	1
620	Blood-brain barrier dysfunction in aging induces hyper-activation of TGF-beta signaling and chronic yet reversible neural dysfunction.	4
619	Blood-retina barrier failure and vision loss in neuron-specific degeneration. 2019 , 5,	29
618	NOX5 as a therapeutic target in cerebral ischemic injury. 2019 , 129, 1530-1532	8
617	Non-invasive MRI quantification of cerebrospinal fluid dynamics in amyotrophic lateral sclerosis patients. 2020 , 17, 4	9
616	A Network Pharmacological Approach to Investigate the Mechanism of Action of Active Ingredients of Epimedii Herba and Their Potential Targets in Treatment of Alzheimer's Disease. 2020 , 26, e926295	2

615	The role of CD2AP in the Pathogenesis of Alzheimer's Disease. 2019 , 10, 901-907	16
614	Rodent Models of Amyloid-Beta Feature of Alzheimer's Disease: Development and Potential Treatment Implications. 2020 , 11, 1235-1259	10
613	TGF- β Signaling: A Therapeutic Target to Reinstiate Regenerative Plasticity in Vascular Dementia?. 2020 , 11, 828-850	21
612	Meningeal Type-2 Innate Lymphoid Cells Emerge as Novel Regulators of Microglial Activation and Blood-Brain Barrier Stability: A Central Role for IL-10.	2
611	The Main Targets Involved in Neuroprotection for the Treatment of Alzheimer's Disease and Parkinson Disease. 2020 , 26, 509-516	4
610	Drug Development for Central Nervous System Diseases Using In vitro Blood-brain Barrier Models and Drug Repositioning. 2020 , 26, 1466-1485	10
609	Key Peptides and Proteins in Alzheimer's Disease. 2019 , 20, 577-599	14
608	Consideration of a Pharmacological Combinatorial Approach to Inhibit Chronic Inflammation in Alzheimer's Disease. 2019 , 16, 1007-1017	2
607	Protein/ Hormone Based Nanoparticles as Carriers for Drugs Targeting Protein-Protein Interactions. 2019 , 19, 444-456	0
606	Recent Trends in the Management of Alzheimer's Disease: Current Therapeutic Options and Drug Repurposing Approaches. 2020 , 18, 868-882	7
605	Roles of β -Endorphin in Stress, Behavior, Neuroinflammation, and Brain Energy Metabolism. 2020 , 22,	16
604	Cannabinoid receptor 2 agonist attenuates blood-brain barrier damage in a rat model of intracerebral hemorrhage by activating the Rac1 pathway. 2018 , 42, 2914-2922	8
603	Exercise and Neuroinflammation in Health and Disease. 2019 , 23, S82-92	27
602	Metformin reverses early cortical network dysfunction and behavior changes in Huntington's disease. 2018 , 7,	37
601	Targeting maintains adult blood-brain barrier and central nervous system homeostasis. 2021 , 271678X211048981	28
600	The Evolving Concept of Neuro-Thromboinflammation for Neurodegenerative Disorders and Neurotrauma: A Rationale for PAR1-Targeting Therapies. 2021 , 11,	21
599	Impaired antioxidant KEAP1-NRF2 system in amyotrophic lateral sclerosis: NRF2 activation as a potential therapeutic strategy. 2021 , 16, 71	3
598	Translational control in neurovascular brain development. 2021 , 8, 211088	0

597	The Blood-Brain Barrier: Much More Than a Selective Access to the Brain. 2021 , 39, 2154-2174	4
596	Common Factors of Alzheimer's Disease and Rheumatoid Arthritis-Pathomechanism and Treatment. 2021 , 26,	0
595	Utilizing 3D Arterial Spin Labeling to Identify Cerebrovascular Leak and Glymphatic Obstruction in Neurodegenerative Disease. 2021 , 11,	1
594	Nanozymes Regulate Redox Homeostasis in ROS-Related Inflammation. 2021 , 9, 740607	4
593	Single-nanometer iron oxide nanoparticles as tissue-permeable MRI contrast agents. 2021 , 118,	5
592	Bilobalide inhibits inflammation and promotes the expression of Aβ-degrading enzymes in astrocytes to rescue neuronal deficiency in AD models. 2021 , 11, 542	2
591	Parallels between the Developing Vascular and Neural Systems: Signaling Pathways and Future Perspectives for Regenerative Medicine. 2021 , 8, e2101837	2
590	Gene Ontology curation of the blood-brain barrier to improve the analysis of Alzheimer's and other neurological diseases. 2021 , 2021,	0
589	Vascular Endothelial Cells: Heterogeneity and Targeting Approaches. 2021 , 10,	9
588	TSPO PET Imaging as a Biomarker of Neuroinflammation in Neurodegenerative Disorders. 2022 , 407-427	1
587	Severe and Regionally Widespread Increases in Tissue Urea in the Human Brain Represent a Novel Finding of Pathogenic Potential in Parkinson's Disease Dementia. 2021 , 14, 711396	1
586	DL0410 Alleviates Memory Impairment in D-Galactose-Induced Aging Rats by Suppressing Neuroinflammation via the TLR4/MyD88/NF-κB Pathway. 2021 , 2021, 6521146	2
585	Effects and underlying cellular pathway involved in the impairment of the neurovascular unit following exposure of adult male mice to low doses of di(2-ethylhexyl) phthalate alone or in an environmental phthalate mixture. 2021 , 112235	0
584	Reliable release testing for nanoparticles with the NanoDis System, an innovative sample and separate technique. 2021 , 609, 121215	3
583	Interactions between glial cells and the blood-brain barrier and their role in Alzheimer's disease. 2021 , 72, 101483	5
582	A guide to senolytic intervention in neurodegenerative disease. 2021 , 200, 111585	2
581	Nanolipidic Carriers as Potential Drug Delivery Vehicles in Alzheimer's Disease. 2019 , 307-341	
580	Nanotechnology at the Rescue of Neurodegenerative Diseases: Tools for Early Diagnostic. 2019 , 19-48	

- 579 A novel role for SHARPIN in amyloid- β phagocytosis and inflammation by peripheral blood-derived macrophages in Alzheimer's disease.
- 578 TRA2A-induced upregulation of LINC00662 regulates blood-brain barrier permeability by affecting ELK4 mRNA stability in Alzheimer's microenvironment. 1
- 577 Neurovascular-modulation.
- 576 A Review of Brain-Targeted Nonviral Gene-Based Therapies for the Treatment of Alzheimer's Disease. **2021**, 18, 4237-4255 0
- 575 Single nuclear transcriptional signatures of dysfunctional brain vascular homeostasis in Alzheimer's disease. 0
- 574 Opicapone Protects Against Hyperhomocysteinemia-Induced Increase in Blood-Brain Barrier Permeability. **2021**, 39, 2018-2028 0
- 573 Astrocytic VEGFA: An essential mediator in blood-brain-barrier disruption in Parkinson's disease. **2022**, 70, 337-353 5
- 572 Retinal Venular Tortuosity Jointly with Retinal Amyloid Burden Correlates with Verbal Memory Loss: A Pilot Study. **2021**, 10, 2
- 571 Comparison of the chemical constituents and anti-Alzheimer's disease effects of *Uncaria rhynchophylla* and *Uncaria tomentosa*. **2021**, 16, 110 0
- 570 Blood-Brain Barrier Disruption Is Not Associated With Disease Aggressiveness in Amyotrophic Lateral Sclerosis. **2021**, 15, 656456 2
- 569 Mitochondrial Electron Transport Chain Protein Abnormalities Detected in Plasma Extracellular Vesicles in Alzheimer's Disease. **2021**, 9, 4
- 568 Brain susceptibility to hypoxia/hypoxemia and metabolic dysfunction in Alzheimer's disease: insights from animal and in vitro models. **2020**, 407-422
- 567 Modeling the Blood-Brain Barrier to Understand Drug Delivery in Alzheimer's Disease. 117-134 1
- 566 Beneficial effects of QTC-4-MeOBnE in an LPS-induced mouse model of depression and cognitive impairments: The role of blood-brain barrier permeability, NF- κ B signaling, and microglial activation. **2022**, 99, 177-191 2
- 565 Advances and challenges toward neural regenerative medicine. **2020**, 1-23
- 564 Toward an integrative understanding of the neuroinflammatory molecular milieu in Alzheimer disease neurodegeneration. **2020**, 163-176
- 563 Inhibition of formyl peptide receptors improves the outcome in a mouse model of Alzheimer disease.
- 562 Pathophysiological subtypes of Alzheimer's disease based on cerebrospinal fluid proteomics.

561	Voluntary running does not increase capillary blood flow but promotes neurogenesis and short-term memory in the APP/PS1 mouse model of Alzheimer's disease.	1
560	Facteurs de risque de la maladie d'Alzheimer et des maladies apparentées : approche parcours de vie. 2020 , 204, 217-223	
559	Multiple Causes of Dementia as Engineered Senescence. 2020 , 2,	
558	Differences Between Plasma and Cerebrospinal Fluid Glial Fibrillary Acidic Protein Levels Across the Alzheimer Disease Continuum. 2021 , 78, 1471-1483	18
557	Nanoparticle-Guided Brain Drug Delivery: Expanding the Therapeutic Approach to Neurodegenerative Diseases. 2021 , 13,	4
556	Effect of NIR light on the permeability of the blood-brain barriers in models.. 2021 , 12, 7544-7555	1
555	Lipids as early and minimally invasive biomarkers for Alzheimer disease. 2021 ,	0
554	HMGB1 plays an important role in pyroptosis induced blood brain barrier breakdown in diabetes-associated cognitive decline. 2021 , 362, 577763	2
553	Nature-inspired dynamic gene-loaded nanoassemblies for the treatment of brain diseases. 2021 , 180, 114029	1
552	Nucleolin is expressed in human fetal brain development and reactivated in human glial brain tumors regulating angiogenesis and vascular metabolism.	0
551	Endothelial iron homeostasis regulates BBB integrity via the HIF2 α /Ve-cadherin pathway.	
550	Correlation of early cognitive dysfunction with inflammatory factors and metabolic indicators in patients with Alzheimer's disease. 2021 , 13, 9208-9215	2
549	Teaching Neuroimmunology to Undergraduate Students: Resource for Full Course or Modular Implementation. 2021 , 19, A163-A184	
548	Antioxidant diets and functional foods attenuate dementia and cognition in elderly subjects. 2022 , 533-549	0
547	Impairment of human dopaminergic neurons at different developmental stages by perfluoro-octanoic acid (PFOA) and differential human brain areas accumulation of perfluoroalkyl chemicals. 2021 , 158, 106982	3
546	The panoramic view of amyotrophic lateral sclerosis: A fatal intricate neurological disorder. 2021 , 288, 120156	4
545	Harnessing cerebral organoids for Alzheimer's disease research. 2021 , 72, 120-130	1
544	Layer-by-layer self-assembly of hollow dextran sulfate/chitosan-coated zein nanoparticles loaded with crocin: Fabrication, structural characterization and potential biological fate. 2022 , 125, 107420	2

543	Special delEVery: Extracellular Vesicles as Promising Delivery Platform to the Brain. 2021 , 9,	5
542	Lipidomics Reveals Dysregulated Glycerophospholipid Metabolism in the Corpus Striatum of Mice Treated with Cefepime. 2021 , 12, 4449-4464	0
541	Low cerebrospinal fluid Amyloid- β 1-42 in patients with tuberculous meningitis. 2021 , 21, 449	1
540	Multiple Sclerosis Masquerading as Post Septorhinoplasty Complication: A Case Report.. 2021 , 13, e19591	
539	HIV-associated neurotoxicity and cognitive decline: Therapeutic implications. 2021 , 108047	1
538	Neurodegenerative disorders management: state-of-art and prospects of nano-biotechnology. 2021 , 1-33	6
537	Circ_0057583 facilitates brain microvascular endothelial cell injury through modulating miR-204-5p/NR4A1 axis. 2021 , 1	1
536	Form and Function of the Vertebrate and Invertebrate Blood-Brain Barriers. 2021 , 22,	3
535	Engineered Solid Lipid Nanoparticles and Nanostructured Lipid Carriers as New Generations of Blood-Brain Barrier Transmitters. 2021 ,	2
534	Blood-brain barrier dysfunction and myelin basic protein in survival of amyotrophic lateral sclerosis with or without frontotemporal dementia. 2021 , 1	0
533	Modulation of the Blood-Brain Barrier for Drug Delivery to Brain.. 2021 , 13,	3
532	Rotenone impairs learning and memory in mice through microglia-mediated blood brain barrier disruption and neuronal apoptosis. 2021 , 291, 132982	3
531	VEGFA mediates blood-brain barrier disruption in Parkinson disease. <i>Nature Reviews Neurology</i> , 2021 ,	15 0
530	Association of Retinal Nerve Fiber Layer Thickness, an Index of Neurodegeneration, With Depressive Symptoms Over Time. 2021 , 4, e2134753	1
529	Severe Hypoglycemia Contributing to Cognitive Dysfunction in Diabetic Mice Is Associated With Pericyte and Blood-Brain Barrier Dysfunction.. 2021 , 13, 775244	2
528	Common pathways in dementia and diabetic retinopathy: understanding the mechanisms of diabetes-related cognitive decline. 2021 ,	5
527	CCR5 antagonist reduces HIV-induced amyloidogenesis, tau pathology, neurodegeneration, and blood-brain barrier alterations in HIV-infected hu-PBL-NSG mice. 2021 , 16, 78	1
526	Magnetic Resonance Imaging in Animal Models of Alzheimer's Disease Amyloidosis. 2021 , 22,	3

525	Imaging microvasculature network evolution and neurodegeneration with precise photothrombosis approach.	1
524	Common Inflammatory Mechanisms in COVID-19 and Parkinson's Diseases: The Role of Microbiome, Pharmabiotics and Postbiotics in Their Prevention. 2021 , 14, 6349-6381	11
523	Homoharringtonine inhibits Alzheimer's disease progression by reducing neuroinflammation via STAT3 signaling in APP/PS1 mice. 2021 ,	0
522	Metals in ALS TDP-43 Pathology. 2021 , 22,	2
521	HMGB1 is a Potential and Challenging Therapeutic Target for Parkinson's Disease. 2021 , 1	
520	Air Pollution Particulate Matter Amplifies White Matter Vascular Pathology and Demyelination Caused by Hypoperfusion. 2021 , 12, 785519	2
519	CSF-Derived CD4 T-Cell Diversity Is Reduced in Patients With Alzheimer Clinical Syndrome. 2022 , 9,	1
518	Drug delivery to the central nervous system.	8
517	Cerebrovascular stiffness and flow dynamics in the presence of amyloid and tau biomarkers.. 2021 , 13, e12253	
516	Protective Effect of Rivaroxaban Against Amyloid Pathology and Neuroinflammation Through Inhibiting PAR-1 and PAR-2 in Alzheimer's Disease Mice.. 2022 ,	1
515	Si-Rhodamine Derivatives for Brain Fluorescence Imaging and Monitoring of HS in the Brain of Schizophrenic Mice before and after Treatment.. 2022 ,	2
514	AMPK signaling in diabetes mellitus, insulin resistance and diabetic complications: A pre-clinical and clinical investigation.. 2022 , 146, 112563	9
513	Biomarkers used in Alzheimer's disease diagnosis, treatment, and prevention.. 2021 , 74, 101544	3
512	Dysfunction of the Blood-brain Barrier in Cerebral Microbleeds: from Bedside to Bench. 2021 , 12, 1898-1919	1
511	Tracer kinetic assessment of blood-brain barrier leakage and blood volume in cerebral small vessel disease: Associations with disease burden and vascular risk factors.. 2021 , 32, 102883	5
510	The Applications of Focused Ultrasound (FUS) in Alzheimer's Disease Treatment: A Systematic Review on Both Animal and Human Studies. 2021 , 12, 1977-2002	6
509	Engineered models for studying blood-brain-barrier-associated brain physiology and pathology. 1, e10	1
508	Quantitative Relationship Between Cerebrovascular Network and Neuronal Cell Types in Mice.	

507	Peripheral immunity is associated with the risk of incident dementia.. 2022,	1
506	Genome Editing with AAV-BR1-CRISPR in Postnatal Mouse Brain Endothelial Cells.. 2022, 18, 652-660	1
505	Intranasal Administration of Self-Oriented Nanocarriers Based on Therapeutic Exosomes for Synergistic Treatment of Parkinson's Disease.. 2022,	10
504	Plasma protein biomarker model for screening Alzheimer disease using multiple reaction monitoring-mass spectrometry.. 2022, 12, 1282	0
503	Systemic Inflammation Accelerates Changes in Microglial and Synaptic Markers in an Experimental Model of Chronic Neurodegeneration.. 2021, 15, 760721	0
502	Enrichment process of lanthanum as a nonessential trace element in leaf cells of lettuce (<i>Lactuca sativa</i> L.). 2022,	0
501	Spatiotemporal Dynamics of Cerebral Vascular Permeability in Type 2 Diabetes-Related Cerebral Microangiopathy.. 2021, 12, 805637	0
500	Risk of neurodegeneration among residents of electronic waste recycling areas.. 2021, 230, 113132	1
499	Recent progress of macrophage vesicle-based drug delivery systems.. 2022, 1	1
498	Parkinson's Disease Subtyping Using Clinical Features and Biomarkers: Literature Review and Preliminary Study of Subtype Clustering.. 2022, 12,	1
497	Altered Blood-Brain Barrier and Blood-Spinal Cord Barrier Dynamics in Amyotrophic Lateral Sclerosis: Impact on Medication Efficacy and Safety.. 2022,	2
496	Review of evidence implicating the plasminogen activator system in blood-brain barrier dysfunction associated with Alzheimer's disease.. 2022, 2,	0
495	In Silico Analysis of Metabolites from Peruvian Native Plants as Potential Therapeutics against Alzheimer's Disease.. 2022, 27,	0
494	Effect of Coffee against MPTP-Induced Motor Deficits and Neurodegeneration in Mice Via Regulating Gut Microbiota.. 2022, 70, 184-195	2
493	Microphysiological Neurovascular Barriers to Model the Inner Retinal Microvasculature.. 2022, 12,	1
492	Suppression of Fli-1 protects against pericyte loss and cognitive deficits in Alzheimer's disease.. 2022,	0
491	Dynamic changes of CSF sPDGFR during ageing and AD progression and associations with CSF ATN biomarkers.. 2022, 17, 9	3
490	Multifocal Cerebral Microinfarcts Modulate Early Alzheimer's Disease Pathology in a Sex-Dependent Manner.. 2021, 12, 813536	0

489	Spatial transcriptomic analysis reveals inflammatory foci defined by senescent cells in the white matter, hippocampi and cortical grey matter in the aged mouse brain.. 2022 , 1	1
488	Sodium tanshinone IIA sulfonate improves cognitive impairment via regulating A β transportation in AD transgenic mouse model.. 2022 , 1	1
487	Drug delivery for neuronopathic lysosomal storage diseases: evolving roles of the blood brain barrier and cerebrospinal fluid.. 2022 , 1	1
486	Is amyloid involved in acute neuroinflammation? A CSF analysis in encephalitis.. 2022 ,	1
485	Blood-brain barrier leakage in Alzheimer's disease: From discovery to clinical relevance.. 2022 , 234, 108119	5
484	Heterochronic parabiosis reprograms the mouse brain transcriptome by shifting aging signatures in multiple cell types.	1
483	Discovery of a dual-action small molecule that improves neuropathological features of Alzheimer's disease mice.. 2022 , 119,	0
482	Specific immune status in Parkinson's disease at different ages of onset.. 2022 , 8, 5	3
481	An Investigation into the Effects of Outer Membrane Vesicles and Lipopolysaccharide of Porphyromonas gingivalis on Blood-Brain Barrier Integrity, Permeability, and Disruption of Scaffolding Proteins in a Human in vitro Model.. 2022 ,	1
480	In Vitro Methodologies to Study the Role of Advanced Glycation End Products (AGEs) in Neurodegeneration.. 2022 , 14,	1
479	Alzheimer Disease: Recent Updates on Apolipoprotein E and Gut Microbiome Mediation of Oxidative Stress, and Prospective Interventional Agents.. 2022 , 13, 87-102	3
478	Endothelial Progenitor Cells and Vascular Alterations in Alzheimer's Disease.. 2021 , 13, 811210	2
477	The GABA Polarity Shift and Bumetanide Treatment: Making Sense Requires Unbiased and Undogmatic Analysis.. 2022 , 11,	2
476	The Improvement of Sepsis-Associated Encephalopathy by P2X7R Inhibitor through Inhibiting the Omi/HtrA2 Apoptotic Signaling Pathway.. 2022 , 2022, 3777351	1
475	Advances in prodrug design for Alzheimer's Disease: the state of the art.. 2022 ,	0
474	Age-Dependent Changes in the Plasma and Brain Pharmacokinetics of Amyloid- β Peptides and Insulin.. 2021 ,	0
473	Do Periodontal Pathogens or Associated Virulence Factors Have a Deleterious Effect on the Blood-Brain Barrier, Contributing to Alzheimer's Disease?. 2021 ,	0
472	Glutathione targeted tragacanthic acid-chitosan as a non-viral vector for brain delivery of miRNA-219a-5P: An in vitro/in vivo study.. 2022 ,	1

471	Impact of intestinal disorders on central and peripheral nervous system diseases.. 2022 , 105627	3
470	Posterior reversible encephalopathy syndrome due to arterial hypertension may mark the onset of the symptomatic phase in Huntington's disease.. 2022 , 11, 40-42	
469	Glial Cells in Neuroinflammation in Various Disease States. 2022 , 1-25	
468	Cytokine changes in cerebrospinal fluid and plasma after emergency orthopaedic surgery.. 2022 , 12, 2221	2
467	Anti-HK antibody reveals critical roles of a 20-residue HK region for A β -induced plasma contact system activation.. 2022 ,	2
466	Single-cell multi-region dissection of brain vasculature in Alzheimer's Disease.	0
465	Repositioning and development of new treatments for neurodegenerative diseases: Focus on neuroinflammation.. 2022 , 919, 174800	1
464	Robust Multi-TE ASL-Based Blood-Brain Barrier Integrity Measurements.. 2021 , 15, 719676	2
463	Microglia and macrophages in central nervous systems. 2022 , 185-208	
462	Brain delivering RNA-based therapeutic strategies by targeting mTOR pathway for axon regeneration after central nervous system injury.. 2022 , 17, 2157-2165	0
461	Platelet-derived growth factor-BB and white matter hyperintensity burden in APOE4 carriers. 2022 , 3, 100131	
460	Immunogenetic mechanism driving neurological and neurodegenerative disorders. 2022 , 219-244	
459	Capillary function progressively deteriorates in prodromal Alzheimer's disease: A longitudinal MRI perfusion study. 2022 , 2, 100035	0
458	Gut microbiota and inflammation in Parkinson's disease: Pathogenetic and therapeutic insights. 2022 , 20, 1721727X2210837	1
457	Gradual Not Sudden Change: Multiple Sites of Functional Transition Across the Microvascular Bed.. 2021 , 13, 779823	1
456	AT1 Receptors: Their Actions from Hypertension to Cognitive Impairment.. 2022 , 22, 311	3
455	The Active Role of Pericytes During Neuroinflammation in the Adult Brain.. 2022 , 1	0
454	Reactive astrocytes transduce blood-brain barrier dysfunction through a TNF α /STAT3 signaling axis and secretion of alpha 1-antichymotrypsin.	1

453	Neurovascular unit dysfunction as a mechanism of seizures and epilepsy during aging.. 2022,	3
452	Recent trends in the development of hydrogel therapeutics for the treatment of central nervous system disorders. 2022, 14,	1
451	Multiple subregions within the caveolin-1 scaffolding domain inhibit fibrosis, microvascular leakage, and monocyte migration.. 2022, 17, e0264413	1
450	Mitochondrial Sirtuins in Parkinson's Disease.. 2022, 1	2
449	Sex-Specific Patterns of Body Mass Index Relationship with White Matter Connectivity.. 2022,	0
448	Emerging Trends and Hot Spots in Sepsis-Associated Encephalopathy Research From 2001 to 2021: A Bibliometric Analysis.. 2022, 9, 817351	0
447	The Combined Use of Neuropsychiatric and Neuropsychological Assessment Tools to Make a Differential Dementia Diagnosis in the Presence of "Long-Haul" COVID-19.. 2022, 14, 130-148	0
446	Small Vessel Disease: Ancient Description, Novel Biomarkers.. 2022, 23,	2
445	Emerging Biomarkers of Multiple Sclerosis in the Blood and the CSF: A Focus on Neurofilaments and Therapeutic Considerations.. 2022, 23,	0
444	Pathological changes within the cerebral vasculature in Alzheimer's disease: New perspectives.. 2022, e13061	1
443	N-methyl-D-aspartic acid increases tight junction protein destruction in brain endothelial cell via caveolin-1-associated ERK1/2 signaling.. 2022, 470, 153139	0
442	Improper Proteostasis: Can It Serve as Biomarkers for Neurodegenerative Diseases?. 2022, 1	
441	Microglial Activation Damages Dopaminergic Neurons through MMP-2/-9-Mediated Increase of Blood-Brain Barrier Permeability in a Parkinson's Disease Mouse Model.. 2022, 23,	3
440	Functional analysis of human brain endothelium using a microfluidic device integrating a cell culture insert.. 2022, 6, 016103	0
439	The Therapeutic Role of Exercise and Probiotics in Stressful Brain Conditions.. 2022, 23,	0
438	Cerebrospinal fluid regulates skull bone marrow niches via direct access through dural channels.. 2022,	7
437	Microvascular Changes in Parkinson's Disease- Focus on the Neurovascular Unit.. 2022, 14, 853372	1
436	A New Hypothesis for Alzheimer's Disease: The Lipid Invasion Model.. 2022, 6, 129-161	0

435	TRPV4: A trigger of pathological RhoA activation in neurological disease.. 2022 , e2100288	3
434	Evaluation of neurodevelopmental symptoms in 10 cases of neonatal ichthyosis and sclerosing cholangitis syndrome.. 2022 ,	0
433	TSPO Ligands Protect against Neuronal Damage Mediated by LPS-Induced BV-2 Microglia Activation.. 2022 , 2022, 5896699	0
432	Co-exposure of polystyrene microplastics and iron aggravates cognitive decline in aging mice via ferroptosis induction.. 2022 , 233, 113342	1
431	Calmodulin binding proteins and neuroinflammation in multiple neurodegenerative diseases.. 2022 , 23, 10	0
430	The blood-brain barrier in aging and neurodegeneration.. 2022 ,	5
429	Alzheimer's disease - the journey of a healthy brain into organ failure.. 2022 , 17, 18	3
428	Dual effect of TAT functionalized DHAH lipid nanoparticles with neurotrophic factors in human BBB and microglia cultures.. 2022 , 19, 22	0
427	A sporadic Alzheimer's blood-brain barrier model for developing ultrasound-mediated delivery of Aducanumab and anti-Tau antibodies.	0
426	Emerging Potential of Exosomal Non-coding RNA in Parkinson's Disease: A Review.. 2022 , 14, 819836	0
425	The blood-brain barrier in health, neurological diseases, and COVID-19. 2022 ,	1
424	Morphine-induced modulation of Nrf2-antioxidant response element signaling pathway in primary human brain microvascular endothelial cells.. 2022 , 12, 4588	0
423	The role of inflammation in neurodegeneration: novel insights into the role of the immune system in C9orf72 HRE-mediated ALS/FTD.. 2022 , 17, 22	2
422	Connecting the Dots Between Hypercholesterolemia and Alzheimer's Disease: A Potential Mechanism Based on 27-Hydroxycholesterol.. 2022 , 16, 842814	1
421	Quantitative Water Permeability Mapping of Blood-Brain-Barrier Dysfunction in Aging.. 2022 , 14, 867452	0
420	Endothelial BACE1 Impairs Cerebral Small Vessels via Tight Junctions and eNOS.. 2022 , 101161CIRCRESAHA12132018	0
419	Tailoring PEGylated nanoparticle surface modulates inflammatory response in vascular endothelial cells.. 2022 ,	0
418	Gut Microbiota Interact With the Brain Through Systemic Chronic Inflammation: Implications on Neuroinflammation, Neurodegeneration, and Aging.. 2022 , 13, 796288	6

417	DRUG TRANSPORT IN THE BRAIN. 2022 , 283-317	0
416	Perivascular SPP1 Mediates Microglial Engulfment of Synapses in Alzheimer's Disease Models.	0
415	Human serum albumin in neurodegeneration.. 2022 ,	1
414	Inflammation at the crossroads of COVID-19, cognitive deficits and depression.. 2022 , 109023	3
413	Exploring the interaction of clonazepam and diazepam with tau protein: Multispectral and molecular docking studies. 2022 , 1258, 132669	0
412	Bacterial pneumonia and subsequent dementia risk: A nationwide cohort study.. 2022 , 103, 12-18	1
411	Association between mixed exposure of phthalates and cognitive function among the U.S. elderly from NHANES 2011-2014: Three statistical models.. 2022 , 154362	0
410	Mural Cells in the Brain Capillaries: Pericytes. 2021 , 2, 73-80	
409	Vascular risk burden is a key player in the early progression of Alzheimer's disease.	
408	Neurofilament Light (NF-L) Chain Protein from a Highly Polymerized Structural Component of the Neuronal Cytoskeleton to a Neurodegenerative Disease Biomarker in the Periphery. 2021 , 7,	0
407	Diagnostic and Therapeutic Potential of Exosomes in Neurodegenerative Diseases.. 2021 , 13, 790863	4
406	The role of SLC transporters for brain health and disease.. 2021 , 79, 20	0
405	Blood-Brain Barrier Overview: Structural and Functional Correlation.. 2021 , 2021, 6564585	5
404	Single Nuclei Transcriptome Reveals Perturbed Brain Vascular Molecules in Alzheimer's Disease.	1
403	Breakdown of the blood-brain barrier: A mediator of increased Alzheimer's risk in patients with metabolic disorders?. 2021 , e13074	2
402	Polarized β -synuclein trafficking and transcytosis across Brain Endothelial Cells via Rab7-decorated carriers.	
401	Integrated Genomic, Transcriptomic and Proteomic Analysis for Identifying Markers of Alzheimer's Disease.. 2021 , 11,	2
400	Gut-Brain Axis: Possible Role of Gut Microbiota in Perioperative Neurocognitive Disorders.. 2021 , 13, 745774	2

399	Nano-scale architecture of blood-brain barrier tight-junctions.. 2021 , 10,	3
398	Effect of axitinib regulating the pathological blood-brain barrier functional recovery for glioblastoma therapeutics.. 2021 ,	3
397	APOE4 derived from astrocytes leads to blood-brain barrier impairment.. 2021 ,	4
396	Basal lamina changes in neurodegenerative disorders. 2021 , 16, 81	2
395	The Dual Nature of Microglia in Alzheimer's Disease: A Microglia-Neuron Crosstalk Perspective.. 2022 , 10738584211070273	0
394	Peripheral Pathways to Neurovascular Unit Dysfunction, Cognitive Impairment, and Alzheimer's Disease.. 2022 , 14, 858429	0
393	AAV Vector-Mediated Antibody Delivery (A-MAD) in the Central Nervous System.. 2022 , 13, 870799	
392	C16 Peptide and Ang-1 Improve Functional Disability and Pathological Changes in an Alzheimer's Disease Model Associated with Vascular Dysfunction.. 2022 , 15,	
391	Glucose metabolism and AD: evidence for a potential diabetes type 3.. 2022 , 14, 56	3
390	Crossing Blood-Brain Barrier with Nano-drug Carriers for Treatment of Brain Tumors: Advances and Unmet Challenges.	
389	Lipid-Based Nanocarriers for Neurological Disorders: A Review of the State-of-the-Art and Therapeutic Success to Date.. 2022 , 14,	1
388	Two-photon microscopy in vivo reveals brain vessel type-specific loss of glycocalyx caused by apoM/S1P signaling impairment.	0
387	Treadmill exercise improve recognition memory by TREM2 pathway to inhibit hippocampal microglial activation and neuroinflammation in Alzheimer's disease model.. 2022 , 251, 113820	0
386	Gut Microbiota as a Hidden Player in the Pathogenesis of Alzheimer's Disease.. 2022 ,	1
385	Canthin-6-one (CO) from <i>Picrasma quassioides</i> (D.Don) Benn. ameliorates lipopolysaccharide (LPS)-induced astrocyte activation and associated brain endothelial disruption.. 2022 , 101, 154108	1
384	Image_1.pdf. 2020 ,	
383	Table_1.DOCX. 2019 ,	
382	Image_1.TIF. 2018 ,	

381	Image_2.TIF. 2018,	
380	Image_3.TIF. 2018,	
379	Image_1.TIF. 2018,	
378	Data_Sheet_1.PDF. 2018,	
377	Table_1.docx. 2020,	
376	Data_Sheet_1.PDF. 2019,	
375	Data_Sheet_1.pdf. 2019,	
374	Data_Sheet_2.pdf. 2019,	
373	Imaging subtle leaks in the blood-brain barrier in the aging human brain: potential pitfalls, challenges, and possible solutions.. 2022, 1	1
372	Regional changes with global brain hypometabolism indicates a physiological triage phenomenon and can explain shared pathophysiological events in Alzheimer's & small vessel diseases and delirium.. 2021, 11, 492-506	
371	Blood-Brain Barrier Function as a Biomarker in Toxicology: Impact of Environmental Toxicants. 2022, 1-25	
370	Lactoferrin as Immune-Enhancement Strategy for SARS-CoV-2 Infection in Alzheimer's Disease Patients.. 2022, 13, 878201	0
369	Inflammation: A New Look at an Old Problem.. 2022, 23,	3
368	Cerebrospinal fluid lactate levels along the Alzheimer's disease continuum and associations with blood-brain barrier integrity, age, cognition, and biomarkers.. 2022, 14, 61	1
367	High-Dose Acetaminophen Alters the Integrity of the BloodBrain Barrier and Leads to Increased CNS Uptake of Codeine in Rats. 2022, 14, 949	0
366	Imaging Biomarkers for Alzheimer's Disease Using Magnetic Resonance Microscopy. 2022, 283-314	
365	Pathophysiological Mechanisms Underlying Idiopathic Normal Pressure Hydrocephalus: A Review of Recent Insights.. 2022, 14, 866313	0
364	A potent and selective inhibitor for the modulation of MAGL activity in the neurovasculature.	

- 363 Nuclear receptor ligand screening in an iPSC-derived in vitro blood-brain barrier model identifies new contributors to leptin transport.
- 362 A multi-hit hypothesis for an APOE4-dependent pathophysiological state.. **2022**, 0
- 361 Advances in Hydrogel-Based Microfluidic BloodBrain-Barrier Models in Oncology Research. **2022**, 14, 993 0
- 360 The Effects of Propofol on a Human in vitro Blood-Brain Barrier Model. **2022**, 16, 0
- 359 Biosensors Integration in Blood-Brain Barrier-on-a-Chip: Emerging Platform for Monitoring Neurodegenerative Diseases.. **2022**, 0
- 358 Altered Blood Brain Barrier Permeability and Oxidative Stress in Cntnap2 Knockout Rat Model. **2022**, 11, 2725 0
- 357 Advances in designing of polymeric micelles for biomedical application in brain related diseases.. **2022**, 361, 109960 4
- 356 Molecular insights into cell type-specific roles in alzheimer's disease: human induced pluripotent stem cell-based disease modeling.. **2022**, 0
- 355 Cerebral small vessel disease alters neurovascular unit regulation of microcirculation integrity involved in vascular cognitive impairment.. **2022**, 105750 1
- 354 Neurovascular coupling mechanisms in health and neurovascular uncoupling in Alzheimer's disease.. **2022**, 0
- 353 The association of enlarged perivascular space with microglia-related inflammation and Alzheimer's pathology in cognitively normal elderly.. **2022**, 105755 1
- 352 The role of ferroptosis in endothelial cell dysfunction.. **2022**, 2
- 351 Both the Complexity of Tight Junctions and Endothelial Transcytosis Are Increased During BBB Postnatal Development in Rats.. **2022**, 16, 850857
- 350 Disease Influence on BBB Transport in Neurodegeneration. **2022**, 657-698
- 349 Ras-related C3 botulinum toxin substrate 1 role in Pathophysiology of Neurological diseases. **2022**,
- 348 Imaging perivascular space structure and function using brain MRI. **2022**, 257, 119329 0
- 347 Peptide-decorated nanocarriers penetrating the blood-brain barrier for imaging and therapy of brain diseases. **2022**, 114362 0
- 346 Blood-brain barrier-on-a-chip for brain disease modeling and drug testing. **2022**, 55, 213-219 1

345	Advances of nano drug delivery system for the theranostics of ischemic stroke. 2022 , 20,	0
344	Lifestyle affects amyloid burden and cognition differently in men and women.	0
343	Drug Distribution in Brain and Cerebrospinal Fluids in Relation to IC50 Values in Aging and Alzheimer's Disease, Using the Physiologically Based LeCNS-PK3.0 Model.	0
342	Polarized β -Synuclein trafficking and transcytosis across brain endothelial cells via Rab7-decorated carriers. 2022 , 19,	0
341	Targeting Necroptosis as a Promising Therapy for Alzheimer's Disease.	3
340	FMNL2 regulates gliovascular interactions and is associated with vascular risk factors and cerebrovascular pathology in Alzheimer's disease.	2
339	Brain Protective Effect of Resveratrol via Ameliorating Interleukin-1 β -Induced MMP-9-Mediated Disruption of ZO-1 Arranged Integrity. 2022 , 10, 1270	2
338	Mesenchymal Stem Cells Improve Cognitive Impairment and Reduce A β Deposition via Promoting AQP4 Polarity and Relieving Neuroinflammation in Rats With Chronic Hypertension-Induced Cerebral Small-Vessel Disease. 14,	
337	Brain imaging abnormalities in mixed Alzheimer's and subcortical vascular dementia. 1-36	
336	Blood-Brain barrier: emerging trends on transport models and new-age strategies for therapeutics intervention against neurological disorders. 2022 , 15,	2
335	Semen Ziziphi Spinosae attenuates blood-Brain barrier dysfunction induced by lipopolysaccharide by targeting the FAK-DOCK180-Rac1-WAVE2-Arp3 signaling pathway. 2022 , 6,	
334	High and low permeability of human pluripotent stem cell-derived Blood Brain barrier models depend on epithelial or endothelial features.	
333	Blood-Brain Barrier Dysfunction and Astrocyte Senescence as Reciprocal Drivers of Neuropathology in Aging. 2022 , 23, 6217	1
332	The future of stem cell therapies of Alzheimer's disease. 2022 , 101655	1
331	Brain Drug Delivery and Neurodegenerative Diseases: Polymeric PLGA-Based Nanoparticles as a Forefront Platform. 2022 , 101658	1
330	Putative Involvement of Cytokine Modulation in the Development of Perioperative Neurocognitive Disorders. Volume 15, 5349-5360	0
329	Hybrid nanoparticles to cross the blood-Brain barrier. 2022 , 565-586	1
328	Cells of the Blood-Brain Barrier: An Overview of the Neurovascular Unit in Health and Disease. 2022 , 3-24	1

327	An overview on nanocarriers. 2022 , 145-204	1
326	PARK7/DJ-1 as a Therapeutic Target in Gut-Brain Axis Diseases. 2022 , 23, 6626	2
325	The Phytochemical Potential for Brain Disease Therapy and the Possible Nanodelivery Solutions for Brain Access. 12,	0
324	Fe3O4 Nanozymes Improve Neuroblast Differentiation and Blood-Brain Barrier Integrity of the Hippocampal Dentate Gyrus in D-Galactose-Induced Aged Mice. 2022 , 23, 6463	
323	Lp-PLA2 as a biomarker and its possible associations with SARS-CoV-2 infection.	1
322	Breaking barriers in postoperative delirium. 2022 ,	0
321	Microbial-derived metabolites as a risk factor of age-related cognitive decline and dementia. 2022 , 17,	0
320	Blood brain barrier permeability and immune function of brain in rainbow trout responding to IHNV infection. 2022 , 104482	0
319	Multi-Platform Proteomic Analysis of Alzheimer's Disease Cerebrospinal Fluid and Plasma Reveals Network Biomarkers Associated with Proteostasis and the Matrisome.	0
318	In Alzheimer's disease, amyloid beta accumulation is a protective mechanism that ultimately fails.	1
317	The Pathological Mechanism Between the Intestine and Brain in the Early Stage of Parkinson's Disease. 14,	
316	Microbiota-Gut-Brain Axis in Neurological Disorders: From Leaky Barriers Microanatomical Changes to Biochemical Processes. 2022 , 22,	0
315	Humanized Anti-RGMA Antibody Treatment Promotes Repair of Blood-Spinal Cord Barrier Under Autoimmune Encephalomyelitis in Mice. 13,	
314	Innate and adaptive immune basis of mental health effect on Alzheimer's disease progression.	
313	Effects of Oxygen Plasma Treatment on Parylene C and Parylene N Membrane Biocompatibility for Tissue Barrier Models.	0
312	Tailoring Materials for Epilepsy Imaging: From Biomarkers to Imaging Probes. 2203667	
311	Role of autoantibodies and bloodBrain barrier leakage in cognitive impairment in systemic lupus erythematosus. 2022 , 9, e000668	0
310	Measurement of Blood-Brain Barrier Disruption in Mice Following Ozone Exposure Using Highly Sensitive Radiotracer Assays. 2022 , 2,	0

- 309 HMGB1 from Astrocytes Promotes EAE by Influencing the Immune Cell Infiltration-Associated Functions of BMECs in Mice. ○
- 308 Recent progresses in exosome-based systems for targeted drug delivery to the brain. **2022**, 348, 723-744 1
- 307 Emerging Methods in Modeling Brain Development and Disease with Human Pluripotent Stem Cells. **2022**, 319-342
- 306 A Single Domain Shark Antibody Targeting the Transferrin Receptor 1 Delivers a TrkB Agonist Antibody to the Brain and Provides Full Neuroprotection in a Mouse Model of Parkinson's Disease. **2022**, 14, 1335 ○
- 305 Microglia Regulate Blood-Brain Barrier Integrity via MiR-126a-5p/MMP9 Axis during Inflammatory Demyelination. 2105442 ○
- 304 A Photonic Biosensor-Integrated Tissue Chip Platform for Real-Time Sensing of Lung Epithelial Inflammatory Markers. ○
- 303 Taking Advantages of Blood-Brain or Spinal Cord Barrier Alterations or Restoring Them to Optimize Therapy in ALS?. **2022**, 12, 1071 ○
- 302 Astrocytes: the neglected stars in the central nervous system and drug addiction. **2022**,
- 301 Protective effects of omega-3 fatty acids in a blood-Brain barrier-on-chip model and on postoperative delirium-like behaviour in mice. **2022**, ○
- 300 Feasibility of 16S rRNA sequencing for cerebrospinal fluid microbiome analysis in cattle with neurological disorders: a pilot study.
- 299 Unravel the Mechanobiology Underlying Traumatic Brain Injury with Advanced Technologies and Biomaterials. 2200760
- 298 A New Perspective on the Pathophysiology of Idiopathic Intracranial Hypertension: Role of the Glia-Neuro-Vascular Interface. 15, ○
- 297 Biological Correlates of Elevated Soluble TREM2 in 2 Cerebrospinal Fluid. **2022**, ○
- 296 Inorganic Nanomaterials versus Polymer-Based Nanoparticles for Overcoming Neurodegeneration. **2022**, 12, 2337 ○
- 295 LncRNA, an Emerging Approach for Neurological Diseases Treatment by Regulating Microglia Polarization. 16, ○
- 294 Terminal complement pathway activation drives synaptic loss in Alzheimer's disease models. **2022**, 10, 4
- 293 Unveiling Leukocyte Extracellular Traps in Inflammatory Responses of the Central Nervous System. 13,
- 292 Critical Role of Neuronal Vps35 in Blood Vessel Branching and Maturation in Developing Mouse Brain. **2022**, 10, 1653

- 291 Image-guided/improved diseases management: from immune-strategies and beyond. **2022**, 114446 0
- 290 Polymeric nanocarriers for nose-to-brain drug delivery in neurodegenerative diseases and neurodevelopmental disorders. **2022**, 0
- 289 SPION nanoparticles for delivery of dopaminergic isoquinoline and benzazepine derivatives. **2022**, 69, 116910
- 288 Crossing borders in Alzheimer's disease: A T cell perspective. **2022**, 188, 114398 1
- 287 Nanoparticles-based anti-aging treatment of Alzheimer's disease. **2022**, 29, 2100-2116
- 286 Muramyl Dipeptide Administration Delays Alzheimer's Disease Physiopathology via NOD2 Receptors. **2022**, 11, 2241
- 285 Actions of Metformin in the Brain: A New Perspective of Metformin Treatments in Related Neurological Disorders. **2022**, 23, 8281 0
- 284 BDNF Therapeutic Mechanisms in Neuropsychiatric Disorders. **2022**, 23, 8417 0
- 283 THE PHYSIOLOGY OF GLYMPHATIC SOLUTE TRANSPORT AND WASTE CLEARANCE FROM THE BRAIN. 2
- 282 Infectious diseases and cognition: do we have to worry?. 1
- 281 Cytokine changes in cerebrospinal fluid following vascular surgery on the thoracic aorta. **2022**, 12,
- 280 Neuroinflammatory disease disrupts the blood-CNS barrier via crosstalk between proinflammatory and endothelial-to-mesenchymal-transition signaling. **2022**, 2
- 279 Pharmacological activation of the C5a receptor leads to stimulation of the β adrenergic receptor and alleviates cognitive impairment in a murine model of familial Alzheimer's disease. 13,
- 278 Functionalization strategies of polymeric nanoparticles for drug delivery in Alzheimer's disease: Current trends and future perspectives. 16, 1
- 277 Direct Oral Anticoagulants (DOACs) for Therapeutic Targeting of Thrombin, a Key Mediator of Cerebrovascular and Neuronal Dysfunction in Alzheimer's Disease. **2022**, 10, 1890 1
- 276 Organ-On-A-Chip Models of the BloodBrain Barrier: Recent Advances and Future Prospects. 2201401 1
- 275 The Protective Effects of Acetazolamide Against Homocysteine-Induced BloodBrain-Barrier Disruption by Regulating the Activation of the Wnt/ β Catenin Signaling Pathway.
- 274 Combinatorial approaches to effective therapy in glioblastoma (GBM): Current status and what the future holds. 1-24 1

273	When the infectious environment meets the AD brain. 2022 , 17,	0
272	Neuroimmune signaling at the brain borders.	1
271	Cerebral small vessel disease: Pathological mechanisms and potential therapeutic targets. 14,	1
270	Interactive Effects of Pulse Pressure and Tau Imaging on Longitudinal Cognition. 2022 , 1-8	0
269	Functional Medicine Approaches to Neurodegeneration. 2022 , 33, 733-743	
268	Mitochondrial Changes in Rat Brain Endothelial Cells Associated with Hepatic Encephalopathy: Relation to the BloodBrain Barrier Dysfunction.	0
267	A Wholistic View of How Bumetanide Attenuates Autism Spectrum Disorders. 2022 , 11, 2419	1
266	Pathogenesis and research progress in leukoaraiosis. 16,	0
265	Opportunities and challenges in delivering biologics for Alzheimer's disease by low-intensity ultrasound. 2022 , 114517	2
264	Altered blood-brain barrier transport of nanotherapeutics in lysosomal storage diseases. 2022 , 349, 1031-1044	0
263	Lowering of brain endothelial cell barrier function by exposure to 4?-iodo- β -pyrrolidinononanophenone. 2022 , 364, 110052	
262	Dissecting causal relationships between nonalcoholic fatty liver disease proxied by chronically elevated alanine transaminase levels and 34 extrahepatic diseases. 2022 , 135, 155270	0
261	The gut microbiome and Alzheimer's disease: Complex and bidirectional interactions. 2022 , 141, 104814	0
260	The presence of BBB hastens neuronal differentiation of cerebral organoids The potential role of endothelial derived BDNF. 2022 , 626, 30-37	
259	Pathogenesis, therapeutic strategies and biomarker development based on omics analysis related to microglia in Alzheimer's disease. 2022 , 19,	0
258	The Impairment of Blood-Brain Barrier in Alzheimer's Disease: Challenges and Opportunities with Stem Cells. 2022 , 23, 10136	1
257	Single-cell RNA sequencing of CSF reveals neuroprotective RAC1+ NK cells in Parkinson's disease. 13,	0
256	Transfer of neuron-derived β -synuclein to astrocytes induces neuroinflammation and bloodBrain barrier damage after methamphetamine exposure: Involving the regulation of nuclear receptor-associated protein 1. 2022 , 106, 247-261	0

- 255 Incretin-based drugs as potential therapy for neurodegenerative diseases: current status and perspectives. **2022**, 239, 108277 1
- 254 The stimulatory effect and mechanism of low-dose lanthanum on soybean leaf cells. **2023**, 441, 129924 0
- 253 The role of the blood-brain barrier in psychiatric disorders. **2022**, 81-81 0
- 252 BloodBrain barrier (BBB)-on-a-chip: a promising breakthrough in brain disease research. **2022**, 22, 3579-3602 1
- 251 Modeling transport of soluble proteins and metabolites in the brain. **2022**, 493-508 0
- 250 Microbiome influences on neuro-immune interactions in neurodegenerative disease. **2022**, 0 0
- 249 Discerning the Role of Blood Brain Barrier Dysfunction in Alzheimer's Disease. **2022**, 13, 1391 0
- 248 Nanotechnology interventions in neuroscience: current perspectives and strategies. **2022**, 255-289 0
- 247 BloodBrain Barrier and Brain Structural Changes in Lung Cancer Patients with Non-Brain Metastases. 0
- 246 The potential link between obstructive sleep apnea and postoperative neurocognitive disorders: current knowledge and possible mechanisms. **2022**, 69, 1272-1287 0
- 245 Evidence for the Existence of a Bacterial Etiology for Alzheimer's Disease and for a Temporal-Spatial Development of a Pathogenic Microbiome in the Brain. 0
- 244 Enlarged perivascular spaces are associated with decreased brain tau deposition. 0
- 243 Influence of Tuina plus oxiracetam on serum inflammatory factors and oxidative stress in mild vascular dementia patients. **2022**, 20, 273-280 0
- 242 The Many Faces of Astrocytes in the Septic Brain. 0
- 241 Identification and validation of key molecules associated with humoral immune modulation in Parkinson's disease based on bioinformatics. 13, 0
- 240 Migraine Pharmacological Treatment and Cognitive Impairment: Risks and Benefits. **2022**, 23, 11418 0
- 239 Cellular changes at the glia-neuro-vascular interface in definite idiopathic normal pressure hydrocephalus. 16, 0
- 238 A Combination of Neurofilament Light, Glial Fibrillary Acidic Protein, and Neuronal Pentraxin-2 Discriminates Between Frontotemporal Dementia and Other Dementias. **2022**, 1-18 0

237	New insight into DAVF pathology clues from meningeal immunity. 13,	0
236	Vascular-water-exchange MRI (VEXI) enables the detection of subtle BBB breakdown in Alzheimer's disease without MRI contrast agent.	0
235	Multiple roles of neuronal extracellular vesicles in neurological disorders. 16,	0
234	Nanoneurology. 2022 , 27-64	0
233	Optimized protocol for transcriptome analysis of mouse brain endothelial cells. 2022 , 17, e0275036	0
232	TNF- α and IL-1 β Modulate Blood-Brain Barrier Permeability and Decrease Amyloid- β Peptide Efflux in a Human Blood-Brain Barrier Model. 2022 , 23, 10235	3
231	High-Throughput Screening Assay Identifies Berberine and Mubritinib as Neuroprotection Drugs for Spinal Cord Injury via Blood-Spinal Cord Barrier Protection.	1
230	Neurovascular Unit-Derived Extracellular Vesicles: From Their Physiopathological Roles to Their Clinical Applications in Acute Brain Injuries. 2022 , 10, 2147	0
229	Allergic diseases and risk of incident dementia and Alzheimer's disease.	1
228	Bradykinin/bradykinin 1 receptor promotes brain microvascular endothelial cell permeability and proinflammatory cytokine release by downregulating Wnt3a.	1
227	Innate immune activation: Parallels in alcohol use disorder and Alzheimer's disease. 15,	1
226	Aberrant energy metabolism in Alzheimer's disease. 2022 , 10, 197-206	0
225	Gliovascular alterations in sporadic and familial Alzheimer's disease: APOE3 Christchurch homozygote glioprotection.	0
224	Interaction between Alzheimer's Disease and Cerebral Small Vessel Disease: A Review Focused on Neuroimaging Markers. 2022 , 23, 10490	0
223	Immune-mediated diseases are associated with a higher incidence of dementia: a prospective cohort study of 375,894 individuals. 2022 , 14,	1
222	The role of the astrocyte in subarachnoid hemorrhage and its therapeutic implications. 13,	0
221	The Immune System as a Therapeutic Target for Alzheimer's Disease. 2022 , 12, 1440	1
220	Nuclear receptor ligand screening in an iPSC-derived in vitro blood-brain barrier model identifies new contributors to leptin transport. 2022 , 19,	1

219	The COVID-19 pandemic and Alzheimer's disease: mutual risks and mechanisms. 2022 , 11,	2
218	The Role of Inflammation in Cognitive Impairment of Obstructive Sleep Apnea Syndrome. 2022 , 12, 1303	1
217	Improved biopharmaceutical performance of antipsychotic drug using lipid nanoparticles via intraperitoneal route. 1-11	1
216	A potent and selective inhibitor for the modulation of MAGL activity in the neurovasculature. 2022 , 17, e0268590	0
215	Extracellular vesicles—Upcoming biomarkers in Parkinson's disease's biofluids. 2022 , 4, 45-51	0
214	Investigation of the Transporting Behavior of Framework DNA Nano-Devices Across the Artificial Blood-Brain Barrier (BBB).	0
213	Increased Type I interferon signaling and brain endothelial barrier dysfunction in an experimental model of Alzheimer's disease. 2022 , 12,	0
212	Experimental tooth loss affects spatial learning function and blood-brain barrier of mice.	0
211	The liver and muscle secreted Hfe2-protein maintains blood brain barrier integrity.	0
210	Endothelial-to-mesenchymal transition in multiple sclerosis: Good cells gone bad. 2022 , 110, 3053-3055	0
209	Altered glucose metabolism in Alzheimer's disease: Role of mitochondrial dysfunction and oxidative stress. 2022 ,	3
208	Regulation of pathological blood-brain barrier for intracranial enhanced drug delivery and anti-glioblastoma therapeutics. 2021 , 29, 351-363	0
207	Monitoring of Post-Brain Injuries By Measuring Plasma Levels of Neuron-Derived Extracellular Vesicles. 2022 , 17, 117727192211281	0
206	Organ Systems. 2022 , 225-413	0
205	Focused ultrasound as a non-invasive method with therapeutic potential in patients with Alzheimer's disease. 2022 , 122, 38	0
204	An Up-to-Date Look at In Vitro Models of Nose-to-Brain Drug Delivery. 2022 , 115-139	0
203	Treadmill Exercise Modulates Intestinal Microbes and Suppresses LPS Displacement to Alleviate Neuroinflammation in the Brains of APP/PS1 Mice. 2022 , 14, 4134	2
202	New insight into brain disease therapy: nanomedicines-crossing blood-brain barrier and extracellular space for drug delivery. 1-18	1

201	Cell-derived nanovesicle-mediated drug delivery to the brain: Principles and strategies for vesicle engineering. 2022,	0
200	High Glycemia and Soluble Epoxide Hydrolase in Females: Differential Multiomics in Murine Brain Microvasculature. 2022, 23, 13044	1
199	White Blood Cell and Platelet Counts Are Not Suitable as Biomarkers in the Differential Diagnostics of Dementia. 2022, 12, 1424	0
198	The Association Between Alzheimer's Disease and Epilepsy: A Narrative Review. 2022,	0
197	Mitochondrial complex I controls blood brain barrier permeability.	0
196	Targeting toxic forms of β synuclein with immunotherapy could alter the progression of Parkinson's disease.	0
195	Blood Markers of Inflammation, Neurodegeneration, and Cardiovascular Risk in Early Parkinson's Disease.	0
194	Blood-Brain barrier and brain structural changes in lung cancer patients with non-brain metastases. 12,	0
193	The Role of Clusterin Transporter in the Pathogenesis of Alzheimer's Disease at the Blood-Brain Barrier Interface: A Systematic Review. 2022, 12, 1452	0
192	The Emerging Role of Pericyte-Derived Extracellular Vesicles in Vascular and Neurological Health. 2022, 11, 3108	1
191	Identifying pre-existing conditions and multimorbidity patterns associated with in-hospital mortality in patients with COVID-19. 2022, 12,	1
190	Gliovascular interface abnormality in mice with endothelial cell senescence.	0
189	An updated analysis of the association between CD2-associated protein gene rs9349407 polymorphism and Alzheimer's disease in Chinese population. 16,	0
188	COVID-19 as a Risk Factor for Alzheimer's Disease. 2022, 1-24	0
187	Overcoming the Blood-Brain Barrier for Gene Therapy via Systemic Administration of GSH-Responsive Silica Nanocapsules.	0
186	Tumor microenvironment and exosomes in brain metastasis: Molecular mechanisms and clinical application. 12,	0
185	An emerging role of astrocytes in aging /neuroinflammation and gut - brain axis with consequences on sleep and sleep disorders. 2022, 101775	0
184	AmyP53, a Therapeutic Peptide Candidate for the Treatment of Alzheimer's and Parkinson's Disease: Safety, Stability, Pharmacokinetics Parameters and Nose-to Brain Delivery. 2022, 23, 13383	1

- 183 Reactive astrocytes transduce inflammation in a blood-brain barrier model through a TNF-STAT3 signaling axis and secretion of alpha 1-antichymotrypsin. **2022**, 13, 0
- 182 Altered gene expression in human brain microvascular endothelial cells in response to the infection of influenza H1N1 virus. **2022**, 2, 0
- 181 Combined exposure of heat stress and ozone enhanced cognitive impairment via neuroinflammation and blood brain barrier disruption in male rats. **2023**, 857, 159599 0
- 180 The effects and potential of microglial polarization and crosstalk with other cells of the central nervous system in the treatment of Alzheimer's disease. **2023**, 18, 947 0
- 179 Glial Cells in Neuroinflammation in Various Disease States. **2022**, 849-873 0
- 178 Subcortical signal alteration of corticospinal tracts. A radiologic manifestation of ARIA: A case report. **2023**, 18, 275-279 0
- 177 Electroacupuncture ameliorates cerebrovascular impairment in Alzheimer's disease mice via melatonin signaling. 0
- 176 Potential of Capric Acid in Neurological Disorders: An Overview. 0
- 175 Blood substitution: More challenges for translational significance. 1, 0
- 174 Emerging roles of innate and adaptive immunity in Alzheimer's disease. **2022**, 1 1
- 173 Potential blood biomarkers for chronic traumatic encephalopathy: The multi-omics landscape of an observational cohort. 14, 0
- 172 Three-dimensional microenvironment regulates gene expression, function, and tight junction dynamics of iPSC-derived blood-brain barrier microvessels. **2022**, 19, 1 1
- 171 Protein and Gene Delivery Systems for Neurodegenerative Disorders: Where Do We Stand Today?. **2022**, 14, 2425 0
- 170 Microbiome-gut-brain dysfunction in prodromal and symptomatic Lewy body diseases. 1 1
- 169 Altered Cortical Palmitoylation Induces Widespread Molecular Disturbances in Parkinson's Disease. **2022**, 23, 14018 0
- 168 Analysis of clinical manifestations and risk factors of HIV-1 associated thrombocytopenia in a general teaching hospital in western China. 0
- 167 Alzheimer's disease and epilepsy: An increasingly recognized comorbidity. 14, 1 1
- 166 Astrocytes as a Therapeutic Target in Alzheimer's Disease: Comprehensive Review and Recent Developments. **2022**, 23, 13630 1 1

165	Blood brain barrier and inflammation in depression. 2022 , 105926	0
164	Role of Necroptosis in Central Nervous System Diseases.	2
163	Multi-platform proteomic analysis of Alzheimer's disease cerebrospinal fluid and plasma reveals network biomarkers associated with proteostasis and the matrisome. 2022 , 14,	1
162	Mitochondrial dysfunctions, oxidative stress and neuroinflammation as therapeutic targets for neurodegenerative diseases: An update on current advances and impediments. 2022 , 104961	3
161	A Biodistribution Study of the Radiolabeled Kv1.3-Blocking Peptide DOTA-HsTX1[R14A] Demonstrates Brain Uptake in a Mouse Model of Neuroinflammation.	0
160	Three-Dimensional Imaging of Fibrinogen and Neurovascular Alterations in Alzheimer's Disease. 2023 , 87-101	0
159	Interleukin-17 Promotes the Infiltration of CD8+ T Cells into the Brain in a Mouse Model for Alzheimer's Disease. 1-19	0
158	Development of a Clinical Risk Score Prediction Tool for 5-, 9-, and 13-Year Risk of Dementia. 2022 , 5, e2242596	0
157	Blood-brain barrier damage following mild traumatic brain injury. 2023 , 133-144	0
156	Modifiable risk factors of dementia linked to excitation-inhibition imbalance. 2023 , 83, 101804	0
155	A Photonic Biosensor-Integrated Tissue Chip Platform for Real-Time Sensing of Lung Epithelial Inflammatory Markers.	0
154	Anti-amyloid nanoclusters for the treatment of brain hazards associated with incurable neurodegenerative diseases. 2023 , 27, 101256	1
153	Acute effects of ambient nitrogen dioxide exposure on serum biomarkers of nervous system damage in healthy older adults. 2023 , 249, 114423	0
152	Intranasally administered thermosensitive gel for brain-targeted delivery of rhynchophylline to treat Parkinson's disease. 2023 , 222, 113065	2
151	Neuroimmune mechanisms underlying Alzheimer's disease: Insights into central and peripheral immune cell crosstalk. 2023 , 84, 101831	0
150	Therapeutic and diagnostic potential of extracellular vesicles in amyotrophic lateral sclerosis. 2023 , 2, 100019	0
149	Role of Oxytocin in Different Neuropsychiatric, Neurodegenerative, and Neurodevelopmental Disorders. 2022 ,	1
148	Ancient Chinese Herbal Recipe Huanglian Jie Du Decoction for Ischemic Stroke: An Overview of Current Evidence. 2022 , 13, 1733	0

- 147 Cerebrospinal fluid/serum albumin quotient (Q-Alb) is not increased in Alzheimer's disease compared to neurological disease controls: a retrospective study on 276 patients. 0
- 146 Evidence of emerging BBB changes in mid-age apolipoprotein E epsilon-4 carriers. **2022**, 12, 0
- 145 In vivo methods for imaging blood-brain barrier function and dysfunction. 1
- 144 Intestinal endogenous metabolites affect neuroinflammation in 5 FAD mice by mediating "gut-brain" axis and the intervention with Chinese Medicine. 0
- 143 How Alpha Linolenic Acid May Sustain Blood-Brain Barrier Integrity and Boost Brain Resilience against Alzheimer's Disease. **2022**, 14, 5091 0
- 142 Emerging Perspectives on Gene Therapy Delivery for Neurodegenerative and Neuromuscular Disorders. **2022**, 12, 1979 0
- 141 DPP-4 Inhibitor and Sulfonylurea Differentially Reverse Type 2 Diabetes-Induced Blood-Brain Barrier Leakage and Normalise Capillary Pericyte Coverage. 0
- 140 Nutritional metabolism and cerebral bioenergetics in Alzheimer's disease and related dementias. 0
- 139 Nutrition Strategies Promoting Healthy Aging: from Improvement of Cardiovascular and Brain Health to Prevention of Age-Associated Diseases. **2023**, 15, 47 2
- 138 Spontaneous Echo Contrast in the Left Atrium and Aortic-Arch Atheroma, Detected by Transesophageal Echocardiography, Was Negatively Correlated with Cognitive Function. **2022**, 1-9 0
- 137 Impact of impaired cerebral blood flow autoregulation on cognitive impairment. 3, 0
- 136 Enlarged perivascular spaces are associated with decreased brain tau deposition. 0
- 135 The impact of dementia, frailty and care home characteristics on SARS-CoV-2 incidence in a national cohort of Welsh care home residents during a period of high community prevalence. **2022**, 51, 0
- 134 Blood RNA transcripts reveal similar and differential alterations in fundamental cellular processes in Alzheimer's disease and other neurodegenerative diseases. 0
- 133 Current Update on Transcellular Brain Drug Delivery. **2022**, 14, 2719 0
- 132 Capillary dysfunction correlates with cortical amyloid load in early Alzheimer's Disease. **2022**, 0
- 131 Open Source Board Based Acoustofluidic Transwells for Reversible Disruption of the Blood-Brain Barrier for Therapeutic Delivery. 0
- 130 The Utility of High Intensity Interval Training to Improve Cognitive Aging in Heart Disease Patients. **2022**, 19, 16926 0

- 129 The gut microbiota is important for the maintenance of blood-brain barrier integrity.
- 128 Changes in hippocampal volume during a preceding 10-year period do not correlate with cognitive performance and hippocampal blood-brain barrier permeability in cognitively normal late-middle-aged men.
- 127 Promiscuous Receptors and Neuroinflammation: The Formyl Peptide Class. **2022**, 12, 2009
- 126 Variants in CLDN5 cause a syndrome characterized by seizures, microcephaly and brain calcifications.
- 125 PICALM rs3851179 Variants Modulate Left Postcentral Cortex Thickness, CSF Amyloid β 2, and Phosphorylated Tau in the Elderly. **2022**, 12, 1681
- 124 Overcoming the Blood-Brain Barrier for Gene Therapy via Systemic Administration of GSH-Responsive Silica Nanocapsules. 2208018
- 123 Role of Tau in Various Tauopathies, Treatment Approaches, and Emerging Role of Nanotechnology in Neurodegenerative Disorders.
- 122 Exposure to World Trade Center Dust Exacerbates Cognitive Impairment and Evokes a Central and Peripheral Pro-Inflammatory Transcriptional Profile in an Animal Model of Alzheimer's Disease. **2022**, 1-16
- 121 Brain borders at the central stage of neuroimmunology. **2022**, 612, 417-429
- 120 Vascular contributions to Alzheimer's disease. **2022**, 1
- 119 Vascular endothelial cells: a fundamental approach for brain waste clearance.
- 118 Implications of fractalkine on glial function, ablation and glial proteins/receptors/markers—Understanding its therapeutic usefulness in neurological settings: a narrative review. **2022**, 8,
- 117 Human mini-blood-brain barrier models for biomedical neuroscience research: a review. **2022**, 26,
- 116 Electroacupuncture Improves Blood-Brain Barrier and Hippocampal Neuroinflammation in SAMP8 Mice by Inhibiting HMGB1/TLR4 and RAGE/NADPH Signaling Pathways.
- 115 Circadian rhythms in the blood-brain barrier: impact on neurological disorders and stress responses. **2023**, 16,
- 114 Novel naringin tablet formulations of agro-residues based nano/micro crystalline cellulose with neuroprotective and Alzheimer ameliorative potentials. **2023**,
- 113 Paroxysmal Slow-Wave Events Are Uncommon in Parkinson's Disease. **2023**, 23, 918
- 112 Identification of common sequence motifs shared exclusively among selectively packed exosomal pathogenic microRNAs during rickettsial infections.

- 111 Lifelong exposure to high-altitude hypoxia in humans is associated with improved redox homeostasis and structural-functional adaptations of the neurovascular unit. ○
- 110 *Porphyromonas gingivalis* bacteremia increases the permeability of the blood-brain barrier via the Mfsd2a/Caveolin-1 mediated transcytosis pathway. **2023**, 15, ○
- 109 Blood brain barrier-on-a-chip to model neurological diseases. **2023**, 104174 ○
- 108 Enhancement of mitochondrial function using NO releasing nanoparticles; a potential approach for therapy of Alzheimer's diseases. **2023**, ○
- 107 Senescence in brain pericytes attenuates blood-brain barrier function in vitro: A comparison of serially passaged and isolated pericytes from aged rat brains. **2023**, ○
- 106 Aβ2 oligomer-specific antibody ALZ-201 reduces the neurotoxicity of Alzheimer's disease brain extracts. **2022**, 14, ○
- 105 Transcriptome Profile in the Mouse Brain of Hepatic Encephalopathy and Alzheimer's Disease. **2023**, 24, 675 ○
- 104 Insight into the efficacy of lipid nano-systems for brain delivery Uptake and internalization pathways in different cell culture lines. **2022**, 68, 219-220 ○
- 103 Optimization and Technical Considerations for the Dye-Exclusion Protocol Used to Assess Blood-Brain Barrier Integrity in Adult *Drosophila melanogaster*. **2023**, 24, 1886 ○
- 102 Hispidin in the Medicinal Fungus Protects Dopaminergic Neurons from JNK Activation-Regulated Mitochondrial-Dependent Apoptosis in an MPP+-Induced In Vitro Model of Parkinson's Disease. **2023**, 15, 549 ○
- 101 Exosomal miR-320e is a potential target of CVSD that regulates the Wnt2-mediated Wnt/βcatenin signaling pathway. ○
- 100 Pericytes control vascular stability and auditory spiral ganglion neuron survival. 12, ○
- 99 The neuroimmune axis of Alzheimer's disease. **2023**, 15, ○
- 98 An Overview of the Latest Developments in the Electrochemical Aptasensing of Neurodegenerative Diseases. **2023**, 13, 235 ○
- 97 Blood-Brain Barrier Function as a Biomarker in Toxicology: Impact of Environmental Toxicants. **2023**, 583-607 ○
- 96 Molecular Mechanisms Underlying Neuroinflammation Elicited by Occupational Injuries and Toxicants. **2023**, 24, 2272 1
- 95 High and low permeability of human pluripotent stem cell-derived blood-brain barrier models depend on epithelial or endothelial features. **2023**, 37, ○
- 94 Zwitterionic polymers: addressing the barriers for drug delivery. **2023**, 108177 ○

93	Cell non-autonomous regulation of cerebrovascular aging processes by the somatotropic axis. 14,	o
92	Does the BloodBrain Barrier Integrity Change in Regard to the Onset of Fetal Growth Restriction?. 2023 , 24, 1965	o
91	Endothelial Dysfunction in Neurodegenerative Diseases. 2023 , 24, 2909	1
90	Adult neurogenesis in Alzheimer's disease. 2023 , 33, 307-321	1
89	Inactivation of microglia dampens blood-brain barrier permeability and loss of dopaminergic neurons in paraquat-lesioned mice. 2023 , 174, 113692	o
88	The role of microbiota - oral - brain axis in anxiety and depression.	o
87	Pesticides at brain borders: Impact on the blood-brain barrier, neuroinflammation, and neurological risk trajectories. 2023 , 324, 138251	o
86	Role of microbial dysbiosis in the pathogenesis of Alzheimer's disease. 2023 , 229, 109478	o
85	The Drosophila blood-brain barrier emerges as a model for understanding human brain diseases. 2023 , 180, 106071	o
84	Region-related and layer-specific permeability of the iris vasculature with morphological mechanism: A novel understanding of blood-aqueous barrier. 2023 , 230, 109445	o
83	The action of phosphodiesterase-5 inhibitors on β amyloid pathology and cognition in experimental Alzheimer's disease: A systematic review. 2023 , 320, 121570	o
82	Engineered M13 phage as a novel therapeutic bionanomaterial for clinical applications: From tissue regeneration to cancer therapy. 2023 , 20, 100612	o
81	Sex difference in biological change and mechanism of Alzheimer's disease: From macro- to micro-landscape. 2023 , 87, 101918	o
80	Implementation of blood-brain barrier on microfluidic chip: Recent advance and future prospects. 2023 , 87, 101921	o
79	Engineering of electrospun nanofiber scaffolds for repairing brain injury. 2023 , 4, 289-303	o
78	Integrative analysis of β T cells and dietary factors reveals predictive values for autism spectrum disorder in children. 2023 , 111, 76-89	o
77	Dynamic Contrast-Enhanced MRI and Its Applications in Various Central Nervous System Diseases. 2022 , 26, 256	o
76	Mitochondrial oxidative stress in brain microvascular endothelial cells: Triggering blood-brain barrier disruption. 2023 , 69, 71-82	o

- 75 The gut microbiome in Alzheimer's disease: what we know and what remains to be explored. **2023**, 18, 1
- 74 Therapeutic potential of targeting IL-17 and its receptor signaling in neuroinflammation. **2023**, 28, 103517 0
- 73 Relationship between Hypoxic and Immune Pathways Activation in the Progression of Neuroinflammation: Role of HIF-1 α and Th17 Cells. **2023**, 24, 3073 0
- 72 Perivascular cells induce microglial phagocytic states and synaptic engulfment via SPP1 in mouse models of Alzheimer's disease. 0
- 71 Brain Waste Removal System and Sleep: Photobiomodulation as an Innovative Strategy for Night Therapy of Brain Diseases. **2023**, 24, 3221 0
- 70 Purinergic signaling: A gatekeeper of blood-brain barrier permeation. 14, 0
- 69 From neurons to the neuro-glio-vascular unit: Seizures and brain homeostasis in networks. **2023**, 179, 308-315 0
- 68 Imaging Methods Applicable in the Diagnostics of Alzheimer's Disease, Considering the Involvement of Insulin Resistance. **2023**, 24, 3325 0
- 67 Therapeutic properties and pharmacological activities of asiaticoside and madecassoside: A review. **2023**, 27, 593-608 0
- 66 Kidney disease and stroke: epidemiology and potential mechanisms of susceptibility. 0
- 65 Construction of a predictive model for cognitive impairment risk in patients with advanced cancer. 0
- 64 Multi-faceted small molecule for Alzheimer's disease. **2023**, 18, 2198 0
- 63 The link between neuroinflammation and the neurovascular unit in synucleinopathies. **2023**, 9, 0
- 62 Reconsidering the role of blood-brain barrier in Alzheimer's disease: From delivery to target. 15, 0
- 61 Blood-brain barrier water exchange measurements using contrast-enhanced ASL. 0
- 60 Correlation of blood-brain barrier leakage with cerebral small vessel disease including cerebral microbleeds in Alzheimer's disease. 14, 0
- 59 Extracellular matrix proteins in construction and function of in vitro blood-brain barrier models. 5, 0
- 58 Vascular-water-exchange MRI (VEXI) enables the detection of subtle AXR alterations in Alzheimer's disease without MRI contrast agent, which may relate to BBB integrity. **2023**, 270, 119951 0

- 57 Mechanism of Action of Phytonutrients on Alzheimer's Disease. **2023**, 13, 111-120 ○
- 56 To Explore the Mechanism of Alzheimer's Disease Based on Brain-Gut Axis Theory. **2023**, 13, 121-128 ○
- 55 Hypoglycemic medicines in the treatment of Alzheimer's disease: Pathophysiological links between AD and glucose metabolism. 14, ○
- 54 Recent Advances in Using Liposomes for Delivery of Nucleic Acid-Based Therapeutics. **2023**, 100132 ○
- 53 Blood-Brain barrier endothelial cells in neurodegenerative diseases: Signals from the Barrier 17, ○
- 52 Literature Overview of the Relation Between Psoriasis and Alzheimer. Volume 19, 461-468 ○
- 51 A flow cytometry-based protocol for syngenic isolation of neurovascular unit cells from mouse and human tissues. ○
- 50 Role of interleukin-6 and interleukin-10 in morphological and functional changes of the blood-Brain barrier in hypertriglyceridemia. **2023**, 20, ○
- 49 Blood-brain barrier water exchange measurements using FEXI: Impact of modeling paradigm and relaxation time effects. ○
- 48 Beyond the amyloid cascade: An update of Alzheimer's disease pathophysiology. **2023**, ○
- 47 Establishing Co-Culture Blood-Brain Barrier Models for Different Neurodegeneration Conditions to Understand Its Effect on BBB Integrity. **2023**, 24, 5283 ○
- 46 Multi-omics analysis revealed the brain dysfunction induced by energy metabolism in *Pelteobagrus vachelli* under hypoxia stress. **2023**, 254, 114749 ○
- 45 Nucleolin promotes angiogenesis and endothelial metabolism along the onco-fetal axis in the human brain vasculature. ○
- 44 Contribution of clinical information to the predictive performance of plasma β amyloid levels for amyloid positron emission tomography positivity. 15, ○
- 43 Shared peripheral blood biomarkers for Alzheimer's disease, major depressive disorder, and type 2 diabetes and cognitive risk factor analysis. **2023**, 9, e14653 ○
- 42 The role of the blood-Brain barrier during neurological disease and infection. ○
- 41 Challenges in Targeting Nasal Passage and Nose-to-Brain Delivery via Nanoemulsions. **2023**, 59-82 ○
- 40 Imaging blood-Brain barrier disruption in neuroinflammation and Alzheimer's disease. 15, ○

- 39 Aspartame and Its Metabolites Cause Oxidative Stress and Mitochondrial and Lipid Alterations in SH-SY5Y Cells. **2023**, 15, 1467 ○
- 38 Single-cell transcriptomics reveals the interaction between peripheral CD4+ CTLs and mesencephalic endothelial cells mediated by IFNG in Parkinson's disease. **2023**, 158, 106801 ○
- 37 Beyond the amyloid hypothesis: how current research implicates autoimmunity in Alzheimer's disease pathogenesis. 1-29 ○
- 36 Neurochemical effects of sepsis on the brain. **2023**, 137, 401-414 ○
- 35 Edge Density Imaging Identifies White Matter Biomarkers of Late-Life Obesity and Cognition. **2022**, 0 ○
- 34 Targeting Mitochondrial Sirtuins in Age-Related Neurodegenerative Diseases and Fibrosis. **2023**, 0 ○
- 33 Inhibition of discoidin domain receptor (DDR)-1 with nilotinib induces autophagy and reduces inflammation and vascular fibrosis in Alzheimer's disease. ○
- 32 Impaired brain equanimity and neurogenesis in the diet-induced overweight mouse: a preventive role by syringic acid treatment. 1-18 ○
- 31 Exploration and Clinical Verification of the Blood Co-Expression Genes of Type 2 Diabetes Mellitus and Mild Cognitive Dysfunction in the Elderly. **2023**, 11, 993 ○
- 30 Optimization of Parylene C and Parylene N thin films for use in cellular co-culture and tissue barrier models. **2023**, 13, ○
- 29 Metabolic syndrome biomarkers relate to rate of cognitive decline in MCI and dementia stages of Alzheimer's disease. **2023**, 15, ○
- 28 MMP2 rs243866 and rs2285053 Polymorphisms and Alzheimer's Disease Risk in Slovak Caucasian Population. **2023**, 13, 882 ○
- 27 miRNAs as Predictors of Barrier Integrity. **2023**, 13, 422 ○
- 26 Endothelial depletion of Atg7 triggers astrocyte-microvascular disassociation at blood-brain barrier. **2023**, 222, ○
- 25 De novo drug design based on Stack-RNN with multi-objective reward-weighted sum and reinforcement learning. **2023**, 29, ○
- 24 Brain iron acquisition: An overview of homeostatic regulation and disease dysregulation. ○
- 23 Aging reduces calreticulin expression and alters spontaneous calcium signals in astrocytic endfeet of the mouse dorsolateral striatum. **2023**, 9, ○
- 22 Moving beyond amyloid and tau to capture the biological heterogeneity of Alzheimer's disease. **2023**, ○

- 21 Filter exchange imaging with crusher gradient modelling detects increased blood-brain barrier water permeability in response to mild lung infection. **2023**, 20, ○
- 20 Cellular senescence and the blood-brain barrier: Implications for aging and age-related diseases. 153537022311579
- 19 Protein biomarkers in multiple sclerosis. **2023**, 3, 54-63 ○
- 18 New Insights into Alzheimer's Disease: Novel Pathogenesis, Drug Target and Delivery. **2023**, 15, 1133 ○
- 17 Longitudinal head-to-head comparison of 11C-PiB and 18F-florbetapir PET in a Phase 2/3 clinical trial of anti-amyloid- β monoclonal antibodies in dominantly inherited Alzheimer's disease. ○
- 16 Circulating exosomes from Alzheimer's disease suppress VE-cadherin expression and induce barrier dysfunction in recipient brain microvascular endothelial cell. ○
- 15 Expansion-enhanced super-resolution radial fluctuations enable nanoscale molecular profiling of pathology specimens. **2023**, 18, 336-342 ○
- 14 Research progress on perioperative blood-brain barrier damage and its potential mechanism. 11, ○
- 13 Plasma neurodegeneration biomarker concentrations associate with glymphatic and meningeal lymphatic measures in neurological disorders. **2023**, 14, ○
- 12 CD31 as a probable responding and gate-keeping protein of the blood-brain barrier and the risk of Alzheimer's disease. 0271678X2311700 ○
- 11 Is blood-brain barrier a probable mediator of non-invasive brain stimulation effects on Alzheimer's disease?. **2023**, 6, ○
- 10 Recent Development in the Understanding of Molecular and Cellular Mechanisms Underlying the Etiopathogenesis of Alzheimer's Disease. **2023**, 24, 7258 ○
- 9 Proteomics and machine learning identify a distinct biomarker panel to detect prodromal and early Parkinson's disease. ○
- 8 Imaging blood-brain barrier dysfunction: A state-of-the-art review from a clinical perspective. 15, ○
- 7 Elevated CSF angiopoietin-2 correlates with blood-brain barrier leakiness and markers of neuronal injury in early Alzheimer's disease.. ○
- 6 Endocrine Regulation of Microvascular Receptor-Mediated Transcytosis and Its Therapeutic Opportunities: Insights by PCSK9-Mediated Regulation. **2023**, 15, 1268 ○
- 5 Associations of Particulate Matter Exposures With Brain Gray Matter Thickness and White Matter Hyperintensities: Effect Modification by Low-Grade Chronic Inflammation. **2023**, 38, ○
- 4 Leveraging the glymphatic and meningeal lymphatic systems as therapeutic strategies in Alzheimer's disease: an updated overview of nonpharmacological therapies. **2023**, 18, ○

- 3 CSF neopterin, quinolinic acid and kynurenine/tryptophan ratio are biomarkers of active neuroinflammation. **2023**, 91, 104589
- 2 Lipid nanoparticle-mediated drug delivery to the brain. **2023**, 197, 114861
- 1 The role of signaling crosstalk of microglia in hippocampus on progression of ageing and Alzheimer's disease. **2023**,