

# Tony Wyss-Coray

## List of Publications by Citations

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199  
papers

27,028  
citations

74  
h-index

163  
g-index

234  
ext. papers

33,919  
ext. citations

16.9  
avg, IF

7.13  
L-index

#	Paper	IF	Citations
199	Neuroinflammation in Alzheimer's disease. <i>Lancet Neurology, The</i> , <b>2015</b> , 14, 388-405	24.1	2760
198	The ageing systemic milieu negatively regulates neurogenesis and cognitive function. <i>Nature</i> , <b>2011</b> , 477, 90-4	50.4	1119
197	Geroscience: linking aging to chronic disease. <i>Cell</i> , <b>2014</b> , 159, 709-13	56.2	1068
196	Single-cell transcriptomics of 20 mouse organs creates a Tabula Muris. <i>Nature</i> , <b>2018</b> , 562, 367-372	50.4	1048
195	Inflammation in neurodegenerative disease--a double-edged sword. <i>Neuron</i> , <b>2002</b> , 35, 419-32	13.9	927
194	Inflammation in Alzheimer disease: driving force, bystander or beneficial response?. <i>Nature Medicine</i> , <b>2006</b> , 12, 1005-15	50.5	879
193	Classification and prediction of clinical Alzheimer's diagnosis based on plasma signaling proteins. <i>Nature Medicine</i> , <b>2007</b> , 13, 1359-62	50.5	813
192	The autophagy-related protein beclin 1 shows reduced expression in early Alzheimer disease and regulates amyloid beta accumulation in mice. <i>Journal of Clinical Investigation</i> , <b>2008</b> , 118, 2190-9	15.9	770
191	Adult mouse astrocytes degrade amyloid-beta in vitro and in situ. <i>Nature Medicine</i> , <b>2003</b> , 9, 453-7	50.5	712
190	Inflammation in Alzheimer disease-a brief review of the basic science and clinical literature. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2012</b> , 2, a006346	5.4	640
189	Young blood reverses age-related impairments in cognitive function and synaptic plasticity in mice. <i>Nature Medicine</i> , <b>2014</b> , 20, 659-63	50.5	627
188	Immune activation in brain aging and neurodegeneration: too much or too little?. <i>Neuron</i> , <b>2009</b> , 64, 110-23.9	23.9	519
187	TGF-beta1 promotes microglial amyloid-beta clearance and reduces plaque burden in transgenic mice. <i>Nature Medicine</i> , <b>2001</b> , 7, 612-8	50.5	507
186	Ageing, neurodegeneration and brain rejuvenation. <i>Nature</i> , <b>2016</b> , 539, 180-186	50.4	499
185	Beclin 1 gene transfer activates autophagy and ameliorates the neurodegenerative pathology in alpha-synuclein models of Parkinson's and Lewy body diseases. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 13578-88	6.6	484
184	TREM2 mutations implicated in neurodegeneration impair cell surface transport and phagocytosis. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 243ra86	17.5	436
183	Identification of a central role for complement in osteoarthritis. <i>Nature Medicine</i> , <b>2011</b> , 17, 1674-9	50.5	378

182	Developmental Heterogeneity of Microglia and Brain Myeloid Cells Revealed by Deep Single-Cell RNA Sequencing. <i>Neuron</i> , <b>2019</b> , 101, 207-223.e10	13.9	369
181	Amyloidogenic role of cytokine TGF-beta1 in transgenic mice and in Alzheimer's disease. <i>Nature</i> , <b>1997</b> , 389, 603-6	50.4	366
180	Microglial dysfunction in brain aging and Alzheimer's disease. <i>Biochemical Pharmacology</i> , <b>2014</b> , 88, 594-604	60.4	352
179	Prominent neurodegeneration and increased plaque formation in complement-inhibited Alzheimer's mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 10837-42	11.5	352
178	Aging. Aging-induced type I interferon response at the choroid plexus negatively affects brain function. <i>Science</i> , <b>2014</b> , 346, 89-93	33.3	327
177	Expression of human apolipoprotein E3 or E4 in the brains of Apoe-/- mice: isoform-specific effects on neurodegeneration. <i>Journal of Neuroscience</i> , <b>1999</b> , 19, 4867-80	6.6	311
176	Neuron-specific apolipoprotein e4 proteolysis is associated with increased tau phosphorylation in brains of transgenic mice. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 2527-34	6.6	289
175	Loss of TGF-beta 1 leads to increased neuronal cell death and microgliosis in mouse brain. <i>Neuron</i> , <b>2003</b> , 40, 1133-45	13.9	278
174	Carboxyl-terminal-truncated apolipoprotein E4 causes Alzheimer's disease-like neurodegeneration and behavioral deficits in transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 10966-71	11.5	268
173	β-microglobulin is a systemic pro-aging factor that impairs cognitive function and neurogenesis. <i>Nature Medicine</i> , <b>2015</b> , 21, 932-7	50.5	248
172	Deficiency in neuronal TGF-beta signaling promotes neurodegeneration and Alzheimer's pathology. <i>Journal of Clinical Investigation</i> , <b>2006</b> , 116, 3060-9	15.9	246
171	Microglial beclin 1 regulates retromer trafficking and phagocytosis and is impaired in Alzheimer's disease. <i>Neuron</i> , <b>2013</b> , 79, 873-86	13.9	241
170	Traumatic Brain Injury Imaging in the Second Near-Infrared Window with a Molecular Fluorophore. <i>Advanced Materials</i> , <b>2016</b> , 28, 6872-9	24	240
169	Cellular signaling roles of TGF beta, TNF alpha and beta APP in brain injury responses and Alzheimer's disease. <i>Brain Research Reviews</i> , <b>1997</b> , 23, 47-61		221
168	Clonally expanded CD8 T cells patrol the cerebrospinal fluid in Alzheimer's disease. <i>Nature</i> , <b>2020</b> , 577, 399-404	50.4	221
167	A single-cell transcriptomic atlas characterizes ageing tissues in the mouse. <i>Nature</i> , <b>2020</b> , 583, 590-595	50.4	213
166	Human umbilical cord plasma proteins revitalize hippocampal function in aged mice. <i>Nature</i> , <b>2017</b> , 544, 488-492	50.4	212
165	Lipid-droplet-accumulating microglia represent a dysfunctional and proinflammatory state in the aging brain. <i>Nature Neuroscience</i> , <b>2020</b> , 23, 194-208	25.5	206

164	Chronic overproduction of transforming growth factor-beta1 by astrocytes promotes Alzheimer's disease-like microvascular degeneration in transgenic mice. <i>American Journal of Pathology</i> , <b>2000</b> , 156, 139-50	5.8	202
163	Noninvasive in vivo monitoring of tissue-specific global gene expression in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 7361-6	11.5	196
162	The future of blood-based biomarkers for Alzheimer's disease. <i>Alzheimer's and Dementia</i> , <b>2014</b> , 10, 115-31	3.1	196
161	Undulating changes in human plasma proteome profiles across the lifespan. <i>Nature Medicine</i> , <b>2019</b> , 25, 1843-1850	50.5	195
160	Colony-stimulating factor 1 receptor (CSF1R) signaling in injured neurons facilitates protection and survival. <i>Journal of Experimental Medicine</i> , <b>2013</b> , 210, 157-72	16.6	166
159	Neural progenitor cells regulate microglia functions and activity. <i>Nature Neuroscience</i> , <b>2012</b> , 15, 1485-7	25.5	162
158	Single-cell analysis reveals T cell infiltration in old neurogenic niches. <i>Nature</i> , <b>2019</b> , 571, 205-210	50.4	161
157	Angiotensin II sustains brain inflammation in mice via TGF-beta. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 2782-94	15.9	157
156	CD22 blockade restores homeostatic microglial phagocytosis in ageing brains. <i>Nature</i> , <b>2019</b> , 568, 187-193	30.4	156
155	The immunology of neurodegeneration. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 1156-63	15.9	154
154	Regulation of amyloid precursor protein processing by the Beclin 1 complex. <i>PLoS ONE</i> , <b>2010</b> , 5, e111102	3.7	149
153	Dysregulation of brain and choroid plexus cell types in severe COVID-19. <i>Nature</i> , <b>2021</b> , 595, 565-571	50.4	143
152	The role of inflammation in age-related disease. <i>Aging</i> , <b>2013</b> , 5, 84-93	5.6	141
151	The p75 neurotrophin receptor promotes amyloid-beta(1-42)-induced neuritic dystrophy in vitro and in vivo. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 10627-37	6.6	139
150	Astroglial overproduction of TGF-beta 1 enhances inflammatory central nervous system disease in transgenic mice. <i>Journal of Neuroimmunology</i> , <b>1997</b> , 77, 45-50	3.5	135
149	Astrocyte-derived TGF- $\beta$ accelerates disease progression in ALS mice by interfering with the neuroprotective functions of microglia and T cells. <i>Cell Reports</i> , <b>2015</b> , 11, 592-604	10.6	133
148	All-you-can-eat: autophagy in neurodegeneration and neuroprotection. <i>Molecular Neurodegeneration</i> , <b>2009</b> , 4, 16	19	130
147	Aged blood impairs hippocampal neural precursor activity and activates microglia via brain endothelial cell VCAM1. <i>Nature Medicine</i> , <b>2019</b> , 25, 988-1000	50.5	122

146	Chronically increased transforming growth factor-beta1 strongly inhibits hippocampal neurogenesis in aged mice. <i>American Journal of Pathology</i> , <b>2006</b> , 169, 154-64	5.8	109
145	Physiological blood-brain transport is impaired with age by a shift in transcytosis. <i>Nature</i> , <b>2020</b> , 583, 425-430	50.4	107
144	Genes contributing to prion pathogenesis. <i>Journal of General Virology</i> , <b>2008</b> , 89, 1777-1788	4.9	106
143	TDP-43 frontotemporal lobar degeneration and autoimmune disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2013</b> , 84, 956-62	5.5	103
142	CalFluors: A Universal Motif for Fluorogenic Azide Probes across the Visible Spectrum. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7145-51	16.4	101
141	Glia-dependent TGF-beta signaling, acting independently of the TH17 pathway, is critical for initiation of murine autoimmune encephalomyelitis. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 3306-15	15.9	96
140	Orally administered TGF-beta is biologically active in the intestinal mucosa and enhances oral tolerance. <i>Journal of Allergy and Clinical Immunology</i> , <b>2007</b> , 120, 916-23	11.5	91
139	Global analysis of Smad2/3-dependent TGF-beta signaling in living mice reveals prominent tissue-specific responses to injury. <i>Journal of Immunology</i> , <b>2005</b> , 175, 547-54	5.3	91
138	Collagen VI protects neurons against Abeta toxicity. <i>Nature Neuroscience</i> , <b>2009</b> , 12, 119-21	25.5	90
137	Selective expansion of foxp3-positive regulatory T cells and immunosuppression by suppressors of cytokine signaling 3-deficient dendritic cells. <i>Journal of Immunology</i> , <b>2007</b> , 179, 2170-9	5.3	90
136	Astroglial regulation of apolipoprotein E expression in neuronal cells. Implications for Alzheimer's disease. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 3862-8	5.4	90
135	Adult hippocampal neural stem and progenitor cells regulate the neurogenic niche by secreting VEGF. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 4128-33	11.5	88
134	Long-term cognitive impairments and pathological alterations in a mouse model of repetitive mild traumatic brain injury. <i>Frontiers in Neurology</i> , <b>2014</b> , 5, 12	4.1	88
133	Small molecule p75NTR ligand prevents cognitive deficits and neurite degeneration in an Alzheimer's mouse model. <i>Neurobiology of Aging</i> , <b>2013</b> , 34, 2052-63	5.6	87
132	T cells as antigen-presenting cells. <i>Trends in Immunology</i> , <b>1994</b> , 15, 312-5		87
131	Highly sensitive and specific bioassay for measuring bioactive TGF-beta. <i>BMC Cell Biology</i> , <b>2006</b> , 7, 15		83
130	Ageing hallmarks exhibit organ-specific temporal signatures. <i>Nature</i> , <b>2020</b> , 583, 596-602	50.4	82
129	Impact of peripheral myeloid cells on amyloid- $\beta$ pathology in Alzheimer's disease-like mice. <i>Journal of Experimental Medicine</i> , <b>2015</b> , 212, 1811-8	16.6	79

128	The B7 adhesion molecule is expressed on activated human T cells: functional involvement in T-T cell interactions. <i>European Journal of Immunology</i> , <b>1993</b> , 23, 2175-80	6.1	79
127	Preclinical Assessment of Young Blood Plasma for Alzheimer Disease. <i>JAMA Neurology</i> , <b>2016</b> , 73, 1325-1333	7.3	78
126	ALK5-dependent TGF- $\beta$ signaling is a major determinant of late-stage adult neurogenesis. <i>Nature Neuroscience</i> , <b>2014</b> , 17, 943-52	25.5	75
125	Complement receptor 2 is expressed in neural progenitor cells and regulates adult hippocampal neurogenesis. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 3981-9	6.6	74
124	Bioluminescence imaging of Smad signaling in living mice shows correlation with excitotoxic neurodegeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 18326-31	11.5	72
123	Systemic and acquired immune responses in Alzheimer's disease. <i>International Review of Neurobiology</i> , <b>2007</b> , 82, 205-33	4.4	72
122	Neurodegeneration and neuroprotection in multiple sclerosis and other neurodegenerative diseases. <i>Journal of Neuroimmunology</i> , <b>2006</b> , 176, 198-215	3.5	71
121	Tgf-Beta pathway as a potential target in neurodegeneration and Alzheimer's. <i>Current Alzheimer Research</i> , <b>2006</b> , 3, 191-5	3	68
120	Activation of the STING-Dependent Type I Interferon Response Reduces Microglial Reactivity and Neuroinflammation. <i>Neuron</i> , <b>2017</b> , 96, 1290-1302.e6	13.9	65
119	Small molecule p75NTR ligands reduce pathological phosphorylation and misfolding of tau, inflammatory changes, cholinergic degeneration, and cognitive deficits in APP(L/S) transgenic mice. <i>Journal of Alzheimer's Disease</i> , <b>2014</b> , 42, 459-83	4.3	62
118	Beclin 1 complex in autophagy and Alzheimer disease. <i>Archives of Neurology</i> , <b>2010</b> , 67, 1181-4		60
117	Systemic factors as mediators of brain homeostasis, ageing and neurodegeneration. <i>Nature Reviews Neuroscience</i> , <b>2020</b> , 21, 93-102	13.5	60
116	APOE $\epsilon$ worsens hippocampal CA1 apical neuropil atrophy and episodic memory. <i>Neurology</i> , <b>2014</b> , 82, 691-7	6.5	59
115	Effects of the absence of apolipoprotein e on lipoproteins, neurocognitive function, and retinal function. <i>JAMA Neurology</i> , <b>2014</b> , 71, 1228-36	17.2	59
114	Thy1-hAPP(Lond/Swe+) mouse model of Alzheimer's disease displays broad behavioral deficits in sensorimotor, cognitive and social function. <i>Brain and Behavior</i> , <b>2012</b> , 2, 142-54	3.4	59
113	Elimination of the class A scavenger receptor does not affect amyloid plaque formation or neurodegeneration in transgenic mice expressing human amyloid protein precursors. <i>American Journal of Pathology</i> , <b>1999</b> , 155, 1741-7	5.8	59
112	Changes of the enteric nervous system in amyloid- $\beta$ protein precursor transgenic mice correlate with disease progression. <i>Journal of Alzheimer's Disease</i> , <b>2013</b> , 36, 7-20	4.3	57
111	Multomics modeling of the immunome, transcriptome, microbiome, proteome and metabolome adaptations during human pregnancy. <i>Bioinformatics</i> , <b>2019</b> , 35, 95-103	7.2	54

110	Autoimmunity contributes to nociceptive sensitization in a mouse model of complex regional pain syndrome. <i>Pain</i> , <b>2014</b> , 155, 2377-89	8	54
109	Antiviral drug ganciclovir is a potent inhibitor of microglial proliferation and neuroinflammation. <i>Journal of Experimental Medicine</i> , <b>2014</b> , 211, 189-98	16.6	53
108	Modelling neuroinflammatory phenotypes in vivo. <i>Journal of Neuroinflammation</i> , <b>2004</b> , 1, 10	10.1	53
107	Microglial complement receptor 3 regulates brain A $\beta$ levels through secreted proteolytic activity. <i>Journal of Experimental Medicine</i> , <b>2017</b> , 214, 1081-1092	16.6	52
106	A role for TGF-beta signaling in neurodegeneration: evidence from genetically engineered models. <i>Current Alzheimer Research</i> , <b>2006</b> , 3, 505-13	3	52
105	Bioluminescence in vivo imaging of autoimmune encephalomyelitis predicts disease. <i>Journal of Neuroinflammation</i> , <b>2008</b> , 5, 6	10.1	51
104	Brain Endothelial Cells Are Exquisite Sensors of Age-Related Circulatory Cues. <i>Cell Reports</i> , <b>2020</b> , 30, 4418-4432.e4	10.6	51
103	Safety, Tolerability, and Feasibility of Young Plasma Infusion in the Plasma for Alzheimer Symptom Amelioration Study: A Randomized Clinical Trial. <i>JAMA Neurology</i> , <b>2019</b> , 76, 35-40	17.2	51
102	Insights into the pathogenesis of hydrocephalus from transgenic and experimental animal models. <i>Brain Pathology</i> , <b>2004</b> , 14, 312-6	6	50
101	Blood-Borne Revitalization of the Aged Brain. <i>JAMA Neurology</i> , <b>2015</b> , 72, 1191-4	17.2	49
100	Autophagy in dementias. <i>Brain Pathology</i> , <b>2012</b> , 22, 99-109	6	48
99	Cellular source of apolipoprotein E4 determines neuronal susceptibility to excitotoxic injury in transgenic mice. <i>American Journal of Pathology</i> , <b>2010</b> , 177, 563-9	5.8	45
98	Reduced brain tissue perfusion in TGF-beta 1 transgenic mice showing Alzheimer's disease-like cerebrovascular abnormalities. <i>Neurobiology of Disease</i> , <b>2005</b> , 19, 38-46	7.5	44
97	Combined Plasma and Cerebrospinal Fluid Signature for the Prediction of Midterm Progression From Mild Cognitive Impairment to Alzheimer Disease. <i>JAMA Neurology</i> , <b>2016</b> , 73, 203-212	17.2	42
96	The circulatory systemic environment as a modulator of neurogenesis and brain aging. <i>Autoimmunity Reviews</i> , <b>2013</b> , 12, 674-7	13.6	42
95	Blood protein signature for the early diagnosis of Alzheimer disease. <i>Archives of Neurology</i> , <b>2009</b> , 66, 161-5		39
94	Increased T cell recruitment to the CNS after amyloid beta 1-42 immunization in Alzheimer's mice overproducing transforming growth factor-beta 1. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 11437-41	6.6	38
93	A revival of parabiosis in biomedical research. <i>Swiss Medical Weekly</i> , <b>2014</b> , 144, w13914	3.1	37



92	Deficiency in Neuronal TGF- $\beta$ Signaling Leads to Nigrostriatal Degeneration and Activation of TGF- $\beta$ Signaling Protects against MPTP Neurotoxicity in Mice. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 4584-4592	6.6	36
91	PET imaging of translocator protein (18 kDa) in a mouse model of Alzheimer's disease using N-(2,5-dimethoxybenzyl)-2- <sup>18</sup> F-fluoro-N-(2-phenoxyphenyl)acetamide. <i>Journal of Nuclear Medicine</i> , <b>2015</b> , 56, 311-6	8.9	36
90	Modeling of pathological traits in Alzheimer's disease based on systemic extracellular signaling proteome. <i>Molecular and Cellular Proteomics</i> , <b>2011</b> , 10, M111.008862	7.6	36
89	An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging. <i>Nature Aging</i> , <b>2021</b> , 1, 598-615		36
88	Systematic review and analysis of human proteomics aging studies unveils a novel proteomic aging clock and identifies key processes that change with age. <i>Ageing Research Reviews</i> , <b>2020</b> , 60, 101070	12	34
87	Deficiency of a sulfotransferase for sialic acid-modified glycans mitigates Alzheimer's pathology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E2947-E2954	11.5	32
86	Exercise rejuvenates quiescent skeletal muscle stem cells in old mice through restoration of Cyclin D1. <i>Nature Metabolism</i> , <b>2020</b> , 2, 307-317	14.6	32
85	Antigen-presenting human T cells and antigen-presenting B cells induce a similar cytokine profile in specific T cell clones. <i>European Journal of Immunology</i> , <b>1993</b> , 23, 3350-7	6.1	32
84	The Role of the Microenvironmental Niche in Declining Stem-Cell Functions Associated with Biological Aging. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2015</b> , 5,	5.4	31
83	Heparan sulfate subdomains that are degraded by Sulf accumulate in cerebral amyloid $\beta$ plaques of Alzheimer's disease: evidence from mouse models and patients. <i>American Journal of Pathology</i> , <b>2012</b> , 180, 2056-67	5.8	31
82	Nuclear pore complex remodeling by p75(NTR) cleavage controls TGF- $\beta$ signaling and astrocyte functions. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 1077-80	25.5	29
81	Stem cells as vehicles for youthful regeneration of aged tissues. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2014</b> , 69 Suppl 1, S39-42	6.4	29
80	GeneTrail 3: advanced high-throughput enrichment analysis. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, W515-W520	20.1	29
79	Go with your gut: microbiota meet microglia. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 930-1	25.5	28
78	Eosinophils regulate adipose tissue inflammation and sustain physical and immunological fitness in old age. <i>Nature Metabolism</i> , <b>2020</b> , 2, 688-702	14.6	28
77	Deficiency of terminal complement pathway inhibitor promotes neuronal tau pathology and degeneration in mice. <i>Journal of Neuroinflammation</i> , <b>2012</b> , 9, 220	10.1	26
76	Functional role of TGF beta in Alzheimer's disease microvascular injury: lessons from transgenic mice. <i>Neurochemistry International</i> , <b>2001</b> , 39, 393-400	4.4	25
75	Discrimination of human CD4 T cell clones based on their reactivity with antigen-presenting T cells. <i>European Journal of Immunology</i> , <b>1992</b> , 22, 2295-302	6.1	25



74	Novel role of human CD4 molecule identified in neurodegeneration. <i>Nature Medicine</i> , <b>1998</b> , 4, 441-6	50.5	24
73	Noncytotoxic human CD4+ T-cell clones presenting and simultaneously responding to an antigen die of apoptosis. <i>Cellular Immunology</i> , <b>1995</b> , 161, 72-8	4.4	23
72	Carrier-mediated uptake and presentation of a major histocompatibility complex class I-restricted peptide. <i>European Journal of Immunology</i> , <b>1993</b> , 23, 3217-23	6.1	22
71	A Single Cell Transcriptomic Atlas Characterizes Aging Tissues in the Mouse		22
70	Network-driven plasma proteomics expose molecular changes in the Alzheimer's brain. <i>Molecular Neurodegeneration</i> , <b>2016</b> , 11, 31	19	21
69	Beclin 1 regulates neuronal transforming growth factor- $\beta$ signaling by mediating recycling of the type I receptor ALK5. <i>Molecular Neurodegeneration</i> , <b>2015</b> , 10, 69	19	20
68	Chronic over-expression of TGF $\beta$ 1 alters hippocampal structure and causes learning deficits. <i>Hippocampus</i> , <b>2013</b> , 23, 1198-211	3.5	20
67	Use of antibody/peptide constructs of direct antigenic peptides to T cells: evidence for T cell processing and presentation. <i>Cellular Immunology</i> , <b>1992</b> , 139, 268-73	4.4	20
66	A cell surface ELISA for the screening of monoclonal antibodies to antigens on viable cells in suspension. <i>Journal of Immunological Methods</i> , <b>1994</b> , 171, 93-102	2.5	19
65	Sorting through the roles of beclin 1 in microglia and neurodegeneration. <i>Journal of NeuroImmune Pharmacology</i> , <b>2014</b> , 9, 285-92	6.9	18
64	Immunotherapy of cerebrovascular amyloidosis in a transgenic mouse model. <i>Neurobiology of Aging</i> , <b>2012</b> , 33, 432.e1-432.e13	5.6	18
63	Data mining of human plasma proteins generates a multitude of highly predictive aging clocks that reflect different aspects of aging. <i>Aging Cell</i> , <b>2020</b> , 19, e13256	9.9	18
62	Common diseases alter the physiological age-related blood microRNA profile. <i>Nature Communications</i> , <b>2020</b> , 11, 5958	17.4	16
61	In vivo assessment of behavioral recovery and circulatory exchange in the peritoneal parabiosis model. <i>Scientific Reports</i> , <b>2016</b> , 6, 29015	4.9	16
60	Exercise plasma boosts memory and dampens brain inflammation via clusterin. <i>Nature</i> , <b>2021</b> ,	50.4	15
59	The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans.. <i>Science</i> , <b>2022</b> , 376, eabl4896	33.3	15
58	Key signaling pathways regulate the biological activities and accumulation of amyloid-beta. <i>Neurobiology of Aging</i> , <b>2001</b> , 22, 967-73	5.6	14
57	CD4 T cells contribute to neurodegeneration in Lewy body dementia. <i>Science</i> , <b>2021</b> , 374, 868-874	33.3	14

56	[F]FSPG-PET reveals increased cystine/glutamate antiporter (xc-) activity in a mouse model of multiple sclerosis. <i>Journal of Neuroinflammation</i> , <b>2018</b> , 15, 55	10.1	13
55	Molecular and functional dissection of TGF-beta1-induced cerebrovascular abnormalities in transgenic mice. <i>Annals of the New York Academy of Sciences</i> , <b>2002</b> , 977, 87-95	6.5	13
54	Collagenase-based Single Cell Isolation of Primary Murine Brain Endothelial Cells Using Flow Cytometry. <i>Bio-protocol</i> , <b>2018</b> , 8,	0.9	13
53	A human brain vascular atlas reveals diverse cell mediators of Alzheimer $\beta$ disease risk		13
52	Multiple Click-Selective tRNA Synthetases Expand Mammalian Cell-Specific Proteomics. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 7046-7051	16.4	13
51	A human brain vascular atlas reveals diverse mediators of Alzheimer's risk.. <i>Nature</i> , <b>2022</b> ,	50.4	13
50	Small molecule tgf-beta mimetics as potential neuroprotective factors. <i>Current Alzheimer Research</i> , <b>2005</b> , 2, 183-6	3	12
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48	Broad transcriptional dysregulation of brain and choroid plexus cell types with COVID-19		12
47	Proteolytic cleavage of Beclin 1 exacerbates neurodegeneration. <i>Molecular Neurodegeneration</i> , <b>2018</b> , 13, 68	19	12
46	Nociceptive and Cognitive Changes in a Murine Model of Polytrauma. <i>Journal of Pain</i> , <b>2018</b> , 19, 1392-1405	5.2	12
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44	Live imaging of Smad2/3 signaling in mouse skin wound healing. <i>Wound Repair and Regeneration</i> , <b>2007</b> , 15, 762-6	3.6	11
43	Asynchronous, contagious and digital aging. <i>Nature Aging</i> , <b>2021</b> , 1, 29-35		11
42	Deep sequencing of sncRNAs reveals hallmarks and regulatory modules of the transcriptome during Parkinson $\beta$ disease progression. <i>Nature Aging</i> , <b>2021</b> , 1, 309-322		10
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40	A positive allosteric modulator of mGluR5 promotes neuroprotective effects in mouse models of Alzheimer's disease. <i>Neuropharmacology</i> , <b>2019</b> , 160, 107785	5.5	9
39	Bioactive TGF-beta can associate with lipoproteins and is enriched in those containing apolipoprotein E3. <i>Journal of Neurochemistry</i> , <b>2009</b> , 110, 1254-62	6	9

38	The murine transcriptome reveals global aging nodes with organ-specific phase and amplitude		9
37	Microglia--a wrench in the running wheel?. <i>Neuron</i> , <b>2008</b> , 59, 527-9	13.9	8
36	Improved sensitization of antigen-presenting cells with transferrin-bound peptides: advantages in competition for antigen presentation. <i>Cellular Immunology</i> , <b>1994</b> , 158, 59-70	4.4	8
35	The Role of Aging in Alzheimer's Disease <b>2016</b> , 197-227		8
34	Transforming growth factor-beta signaling pathway as a therapeutic target in neurodegeneration. <i>Journal of Molecular Neuroscience</i> , <b>2004</b> , 24, 149-53	3.3	7
33	Bioluminescence analysis of Smad-dependent TGF-beta signaling in live mice. <i>Methods in Molecular Biology</i> , <b>2009</b> , 574, 193-202	1.4	7
32	Microglial Barriers to Viral Gene Delivery. <i>Neuron</i> , <b>2017</b> , 93, 468-470	13.9	5
31	An oligomeric semiconducting nanozyme with ultrafast electron transfers alleviates acute brain injury. <i>Science Advances</i> , <b>2021</b> , 7, eabk1210	14.3	5
30	Aged blood inhibits hippocampal neurogenesis and activates microglia through VCAM1 at the blood-brain barrier		5
29	Molecular hallmarks of heterochronic parabiosis at single-cell resolution.. <i>Nature</i> , <b>2022</b> ,	50.4	5
28	In vitro analysis of transforming growth factor-beta1 inhibition in novel transgenic SBE-luciferase mice. <i>Annals of Plastic Surgery</i> , <b>2007</b> , 59, 207-13	1.7	4
27	Lipid droplet accumulating microglia represent a dysfunctional and pro-inflammatory state in the aging brain		4
26	An Inflammatory Clock Predicts Multi-morbidity, Immunosenescence and Cardiovascular Aging in Humans		4
25	Young CSF restores oligodendrogenesis and memory in aged mice via Fgf17.. <i>Nature</i> , <b>2022</b> , 605, 509-515	50.4	4
24	Influences of circulatory factors on intervertebral disc aging phenotype. <i>Aging</i> , <b>2020</b> , 12, 12285-12304	5.6	3
23	Brain endothelial cells are exquisite sensors of age-related circulatory cues		3
22	CoolMPS for robust sequencing of single-nuclear RNAs captured by droplet-based method. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, e11	20.1	3
21	Methods to investigate intrathecal adaptive immunity in neurodegeneration. <i>Molecular Neurodegeneration</i> , <b>2021</b> , 16, 3	19	3

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18	The CD22-IGF2R interaction is a therapeutic target for microglial lysosome dysfunction in Niemann-Pick type C. <i>Science Translational Medicine</i> , <b>2021</b> , 13, eabg2919	17.5	2
17	Microglial Dysfunction in Brain Aging and Neurodegeneration <b>2018</b> , 1-15		2
16	Deep sncRNA-seq of the PPMI cohort to study Parkinson's disease progression		2
15	Developmental heterogeneity of microglia and brain myeloid cells revealed by deep single-cell RNA sequencing		
14	Exercise conditioned plasma dampens inflammation via clusterin and boosts memory		2
13	Small molecule C381 targets the lysosome to reduce inflammation and ameliorate disease in models of neurodegeneration.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2121609119	11.5	2
12	The 1st International standard for transforming growth factor- $\beta$ (TGF- $\beta$ ). <i>Journal of Immunological Methods</i> , <b>2012</b> , 380, 1-9	2.5	1
11	Cytokine and Leukocyte Profiling Reveal Pro-Inflammatory and Autoimmune Features in Frontotemporal Dementia Patients		1
10	Molecular hallmarks of heterochronic parabiosis at single cell resolution		1
9	Undulating changes in human plasma proteome across lifespan are linked to disease		1
8	Peripheral B cells repress B-cell regeneration in aging through a TNF- $\alpha$ /IGFBP-1/IGF-1 immune-endocrine axis. <i>Blood</i> , <b>2021</b> , 138, 1817-1829	2.2	1
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5	Genome-wide analysis of common and rare variants via multiple knockoffs at biobank scale, with an application to Alzheimer disease genetics. <i>American Journal of Human Genetics</i> , <b>2021</b> , 108, 2336-2353	11	0
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1 Workshop summary: roles of the TNF family in neuronal development, function and pathology.  
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