

Tim Vanmierlo

List of Publications by Citations

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Version: 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

1,992
citations

26
h-index

42
g-index

87
ext. papers

2,525
ext. citations

6.1
avg, IF

4.5
L-index

#	Paper	IF	Citations
78	ATP-binding cassette transporters G1 and G4 mediate cholesterol and desmosterol efflux to HDL and regulate sterol accumulation in the brain. <i>FASEB Journal</i> , 2008 , 22, 1073-82	0.9	136
77	GEBR-7b, a novel PDE4D selective inhibitor that improves memory in rodents at non-emetic doses. <i>British Journal of Pharmacology</i> , 2011 , 164, 2054-63	8.6	107
76	Liver X receptor activation restores memory in aged AD mice without reducing amyloid. <i>Neurobiology of Aging</i> , 2011 , 32, 1262-72	5.6	101
75	Plant sterols the better cholesterol in Alzheimer β disease? A mechanistical study. <i>Journal of Neuroscience</i> , 2013 , 33, 16072-87	6.6	86
74	Loss of both ABCA1 and ABCG1 results in increased disturbances in islet sterol homeostasis, inflammation, and impaired β cell function. <i>Diabetes</i> , 2012 , 61, 659-64	0.9	85
73	Improvement of spatial memory function in APPswe/PS1dE9 mice after chronic inhibition of phosphodiesterase type 4D. <i>Neuropharmacology</i> , 2014 , 77, 120-30	5.5	83
72	Dietary plant sterols accumulate in the brain. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2006 , 1761, 445-53	5	72
71	Dietary intake of plant sterols stably increases plant sterol levels in the murine brain. <i>Journal of Lipid Research</i> , 2012 , 53, 726-35	6.3	71
70	The PDE4 inhibitor roflumilast improves memory in rodents at non-emetic doses. <i>Behavioural Brain Research</i> , 2016 , 303, 26-33	3.4	67
69	Improved long-term memory via enhancing cGMP-PKG signaling requires cAMP-PKA signaling. <i>Neuropsychopharmacology</i> , 2014 , 39, 2497-505	8.7	66
68	High fat diet exacerbates neuroinflammation in an animal model of multiple sclerosis by activation of the Renin Angiotensin system. <i>Journal of NeuroImmune Pharmacology</i> , 2014 , 9, 209-17	6.9	61
67	Myelin alters the inflammatory phenotype of macrophages by activating PPARs. <i>Acta Neuropathologica Communications</i> , 2013 , 1, 43	7.3	51
66	Plant-based sterols and stanols in health & disease: "Consequences of human development in a plant-based environment?". <i>Progress in Lipid Research</i> , 2019 , 74, 87-102	14.3	46
65	Plant sterol oxidation products--analogs to cholesterol oxidation products from plant origin?. <i>Biochimie</i> , 2013 , 95, 464-72	4.6	41
64	Plant sterols: Friend or foe in CNS disorders?. <i>Progress in Lipid Research</i> , 2015 , 58, 26-39	14.3	41
63	Validation of an isotope dilution gas chromatography-mass spectrometry method for analysis of 7-oxygenated campesterol and sitosterol in human serum. <i>Chemistry and Physics of Lipids</i> , 2011 , 164, 425-31	3.7	40
62	Methylglyoxal-Derived Advanced Glycation Endproducts in Multiple Sclerosis. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	38

61	7,8-Dihydroxyflavone improves memory consolidation processes in rats and mice. <i>Behavioural Brain Research</i> , 2013 , 257, 8-12	3.4	37
60	From OPC to Oligodendrocyte: An Epigenetic Journey. <i>Cells</i> , 2019 , 8,	7.9	33
59	Dietary Sargassum fusiforme improves memory and reduces amyloid plaque load in an Alzheimer β disease mouse model. <i>Scientific Reports</i> , 2019 , 9, 4908	4.9	32
58	Markers of enhanced cholesterol absorption are a strong predictor for cardiovascular diseases in patients without diabetes mellitus. <i>Chemistry and Physics of Lipids</i> , 2011 , 164, 451-6	3.7	32
57	Relapsing-remitting multiple sclerosis patients display an altered lipoprotein profile with dysfunctional HDL. <i>Scientific Reports</i> , 2017 , 7, 43410	4.9	31
56	Progress and perspectives in plant sterol and plant stanol research. <i>Nutrition Reviews</i> , 2018 , 76, 725-746	6.4	30
55	Alterations in brain cholesterol metabolism in the APPSLxPS1mut mouse, a model for Alzheimer β disease. <i>Journal of Alzheimerβ Disease</i> , 2010 , 19, 117-27	4.3	29
54	Differential effects on inhibition of cholesterol absorption by plant stanol and plant sterol esters in apoE $^{-/-}$ mice. <i>Cardiovascular Research</i> , 2011 , 90, 484-92	9.9	28
53	The plant sterol brassicasterol as additional CSF biomarker in Alzheimer β disease. <i>Acta Psychiatrica Scandinavica</i> , 2011 , 124, 184-92	6.5	27
52	Cerebral accumulation of dietary derivable plant sterols does not interfere with memory and anxiety related behavior in Abcg5 $^{-/-}$ mice. <i>Plant Foods for Human Nutrition</i> , 2011 , 66, 149-56	3.9	26
51	Aging induces tissue-specific changes in cholesterol metabolism in rat brain and liver. <i>Lipids</i> , 2013 , 48, 1069-77	1.6	25
50	Effects of prenatal stress exposure on soluble A β and brain-derived neurotrophic factor signaling in male and female APP ^{swE} /PS1 ^{dE9} mice. <i>Neurochemistry International</i> , 2012 , 61, 697-701	4.4	25
49	Roflumilast promotes memory recovery and attenuates white matter injury in aged rats subjected to chronic cerebral hypoperfusion. <i>Neuropharmacology</i> , 2018 , 138, 360-370	5.5	24
48	Cholesterol and synaptic compensatory mechanisms in Alzheimer β disease mice brain during aging. <i>Journal of Alzheimerβ Disease</i> , 2012 , 31, 813-26	4.3	23
47	Differential susceptibility to chronic social defeat stress relates to the number of Dnmt3a-immunoreactive neurons in the hippocampal dentate gyrus. <i>Psychoneuroendocrinology</i> , 2015 , 51, 547-56	5	22
46	Phosphodiesterase Type 4 Inhibition in CNS Diseases. <i>Trends in Pharmacological Sciences</i> , 2019 , 40, 971-985	3.2	21
45	Edible seaweed-derived constituents: an undisclosed source of neuroprotective compounds. <i>Neural Regeneration Research</i> , 2020 , 15, 790-795	4.5	21
44	Methylglyoxal-Derived Advanced Glycation Endproducts Accumulate in Multiple Sclerosis Lesions. <i>Frontiers in Immunology</i> , 2019 , 10, 855	8.4	20

43	Active liver X receptor signaling in phagocytes in multiple sclerosis lesions. <i>Multiple Sclerosis Journal</i> , 2018 , 24, 279-289	5	17
42	Targeting demyelination via β secretases promoting sAPP β release to enhance remyelination in central nervous system. <i>Neurobiology of Disease</i> , 2018 , 109, 11-24	7.5	17
41	Oxidative stress and impaired oligodendrocyte precursor cell differentiation in neurological disorders. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 4615-4637	10.3	17
40	Scavenger receptor collectin placenta 1 is a novel receptor involved in the uptake of myelin by phagocytes. <i>Scientific Reports</i> , 2017 , 7, 44794	4.9	16
39	Liver X Receptor Alpha Is Important in Maintaining Blood-Brain Barrier Function. <i>Frontiers in Immunology</i> , 2019 , 10, 1811	8.4	16
38	TrkB in the hippocampus and nucleus accumbens differentially modulates depression-like behavior in mice. <i>Behavioural Brain Research</i> , 2016 , 296, 15-25	3.4	15
37	Targeting Phosphodiesterases-Towards a Tailor-Made Approach in Multiple Sclerosis Treatment. <i>Frontiers in Immunology</i> , 2019 , 10, 1727	8.4	14
36	Plant sterol ester diet supplementation increases serum plant sterols and markers of cholesterol synthesis, but has no effect on total cholesterol levels. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017 , 169, 219-225	5.1	14
35	Apolipoprotein CI knock-out mice display impaired memory functions. <i>Journal of Alzheimer's Disease</i> , 2011 , 23, 737-47	4.3	14
34	Advanced Glycation Endproducts Are Increased in the Animal Model of Multiple Sclerosis but Cannot Be Reduced by Pyridoxamine Treatment or Glyoxalase 1 Overexpression. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	12
33	Cholesterol metabolism changes under long-term dietary restrictions while the cholesterol homeostasis remains unaffected in the cortex and hippocampus of aging rats. <i>Age</i> , 2014 , 36, 9654		12
32	Dietary advanced glycation endproducts (AGEs) increase their concentration in plasma and tissues, result in inflammation and modulate gut microbial composition in mice; evidence for reversibility. <i>Food Research International</i> , 2021 , 147, 110547	7	12
31	Apolipoprotein isoform E4 does not increase coronary heart disease risk in carriers of low-density lipoprotein receptor mutations. <i>Circulation: Cardiovascular Genetics</i> , 2011 , 4, 655-60		11
30	Oncostatin M-induced astrocytic tissue inhibitor of metalloproteinases-1 drives remyelination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 5028-5038	11.5	10
29	Low-Density Lipoprotein Receptor Deficiency Attenuates Neuroinflammation through the Induction of Apolipoprotein E. <i>Frontiers in Immunology</i> , 2017 , 8, 1701	8.4	10
28	PDE5 inhibition improves object memory in standard housed rats but not in rats housed in an enriched environment: implications for memory models?. <i>PLoS ONE</i> , 2014 , 9, e111692	3.7	9
27	Fluoxetine Treatment Induces Seizure Behavior and Premature Death in APP ^{swe} /PS1 ^{dE9} Mice. <i>Journal of Alzheimer's Disease</i> , 2016 , 51, 677-82	4.3	8
26	CSF1R inhibition rescues tau pathology and neurodegeneration in an A/T/N model with combined AD pathologies, while preserving plaque associated microglia. <i>Acta Neuropathologica Communications</i> , 2021 , 9, 108	7.3	7

25	Early-postnatal iron deficiency impacts plasticity in the dorsal and ventral hippocampus in piglets. <i>International Journal of Developmental Neuroscience</i> , 2017 , 59, 47-51	2.7	6
24	Gestational stress in mouse dams negatively affects gestation and postpartum hippocampal BDNF and P11 protein levels. <i>Molecular and Cellular Neurosciences</i> , 2018 , 88, 292-299	4.8	6
23	The role of receptor MAS in microglia-driven retinal vascular development. <i>Angiogenesis</i> , 2019 , 22, 481-489	4.6	6
22	Long-term effects of prenatal allopurinol treatment on brain plasticity markers in low and normal birth weight piglets. <i>International Journal of Developmental Neuroscience</i> , 2014 , 33, 29-32	2.7	6
21	The Molecular Biology of Phosphodiesterase 4 Enzymes as Pharmacological Targets: An Interplay of Isoforms, Conformational States, and Inhibitors. <i>Pharmacological Reviews</i> , 2021 , 73, 1016-1049	22.5	6
20	ADAM17-deficiency on microglia but not on macrophages promotes phagocytosis and functional recovery after spinal cord injury. <i>Brain, Behavior, and Immunity</i> , 2019 , 80, 129-145	16.6	5
19	Twelve Weeks of Medium-Intensity Exercise Therapy Affects the Lipoprotein Profile of Multiple Sclerosis Patients. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	5
18	24(S)-Saringosterol Prevents Cognitive Decline in a Mouse Model for Alzheimer's Disease. <i>Marine Drugs</i> , 2021 , 19,	6	5
17	Limited daily feeding and intermittent feeding have different effects on regional brain energy homeostasis during aging. <i>Biogerontology</i> , 2018 , 19, 121-132	4.5	4
16	Carnosine quenches the reactive carbonyl acrolein in the central nervous system and attenuates autoimmune neuroinflammation. <i>Journal of Neuroinflammation</i> , 2021 , 18, 255	10.1	4
15	Increased isoform-specific phosphodiesterase 4D expression is associated with pathology and cognitive impairment in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2021 , 97, 56-64	5.6	4
14	Brain cholesterol in normal and pathological aging. <i>Oleagineux Corps Gras Lipides</i> , 2011 , 18, 214-217		3
13	Sphingosine-1-Phosphate Receptor Modulators and Oligodendroglial Cells: Beyond Immunomodulation. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3
12	PDE inhibition in distinct cell types to reclaim the balance of synaptic plasticity. <i>Theranostics</i> , 2021 , 11, 2080-2097	12.1	3
11	DNA methylation regulates the expression of the negative transcriptional regulators ID2 and ID4 during OPC differentiation. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 6631-6644	10.3	3
10	24(R, S)-Saringosterol - From artefact to a biological medical agent. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2021 , 212, 105942	5.1	3
9	Delivery of DNA into the central nervous system via electroporation. <i>Methods in Molecular Biology</i> , 2014 , 1121, 157-63	1.4	2
8	Generation of induced pluripotent stem cell (iPSC) lines carrying a heterozygous (UKWMPi002-A-1) and null mutant knockout (UKWMPi002-A-2) of Cadherin 13 associated with neurodevelopmental disorders using CRISPR/Cas9. <i>Stem Cell Research</i> , 2021 , 51, 102169	1.6	2

7	Liver X receptor beta deficiency attenuates autoimmune-associated neuroinflammation in a T cell-dependent manner. <i>Journal of Autoimmunity</i> , 2021 , 124, 102723	15.5	2
6	Ivory Arthroplasty for Trapeziometacarpal Joint Arthritis in Men: Analysis of Clinical Outcome and Implant Survival. <i>Hand</i> , 2020 , 1558944720930297	1.4	1
5	Neuroinflammation in Ischemic Stroke: Inhibition of cAMP-Specific Phosphodiesterases (PDEs) to the Rescue. <i>Biomedicines</i> , 2021 , 9,	4.8	1
4	Positive effects of roflumilast on behavior, neuroinflammation, and white matter injury in mice with global cerebral ischemia. <i>Behavioural Pharmacology</i> , 2021 , 32, 459-471	2.4	1
3	The sGC stimulator BAY-747 and activator runcaciguat can enhance memory in vivo via differential hippocampal plasticity mechanisms.. <i>Scientific Reports</i> , 2022 , 12, 3589	4.9	0
2	Cholesterol Trafficking in the Brain 2009 , 131-155		
1	Complicated Replanted Finger, 34 Years after Revascularization. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2020 , 8, e3246	1.2	