

# Tim Vanmierlo

## List of Publications by Year in descending order

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84  
papers

3,007  
citations

147726

31  
h-index

182361

51  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4020  
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 1073-1082.	0.2	160
2	GEBR-7b, a novel PDE4D selective inhibitor that improves memory in rodents at non-emetic doses. <i>British Journal of Pharmacology</i> , 2011, 164, 2054-2063.	2.7	128
3	Liver X receptor activation restores memory in aged AD mice without reducing amyloid. <i>Neurobiology of Aging</i> , 2011, 32, 1262-1272.	1.5	118
4	Plant Sterols the Better Cholesterol in Alzheimer's Disease? A Mechanistical Study. <i>Journal of Neuroscience</i> , 2013, 33, 16072-16087.	1.7	111
5	Loss of Both ABCA1 and ABCG1 Results in Increased Disturbances in Islet Sterol Homeostasis, Inflammation, and Impaired Î²-Cell Function. <i>Diabetes</i> , 2012, 61, 659-664.	0.3	107
6	Improvement of spatial memory function in APP <sup>swe</sup> /PS1 <sup>dE9</sup> mice after chronic inhibition of phosphodiesterase type 4D. <i>Neuropharmacology</i> , 2014, 77, 120-130.	2.0	102
7	Dietary intake of plant sterols stably increases plant sterol levels in the murine brain. <i>Journal of Lipid Research</i> , 2012, 53, 726-735.	2.0	95
8	The PDE4 inhibitor roflumilast improves memory in rodents at non-emetic doses. <i>Behavioural Brain Research</i> , 2016, 303, 26-33.	1.2	94
9	Improved Long-Term Memory via Enhancing cGMP-PKG Signaling Requires cAMP-PKA Signaling. <i>Neuropsychopharmacology</i> , 2014, 39, 2497-2505.	2.8	90
10	Oxidative stress and impaired oligodendrocyte precursor cell differentiation in neurological disorders. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 4615-4637.	2.4	85
11	Dietary plant sterols accumulate in the brain. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2006, 1761, 445-453.	1.2	84
12	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, 209-217.	2.1	84
13	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.	5.3	84
14	From OPC to Oligodendrocyte: An Epigenetic Journey. <i>Cells</i> , 2019, 8, 1236.	1.8	74
15	Plant sterols: Friend or foe in CNS disorders?. <i>Progress in Lipid Research</i> , 2015, 58, 26-39.	5.3	66
16	Myelin alters the inflammatory phenotype of macrophages by activating PPARs. <i>Acta Neuropathologica Communications</i> , 2013, 1, 43.	2.4	64
17	Methylglyoxal-Derived Advanced Glycation Endproducts in Multiple Sclerosis. <i>International Journal of Molecular Sciences</i> , 2017, 18, 421.	1.8	57
18	Progress and perspectives in plant sterol and plant stanol research. <i>Nutrition Reviews</i> , 2018, 76, 725-746.	2.6	54

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19	Dietary Sargassum fusiforme improves memory and reduces amyloid plaque load in an Alzheimer's disease mouse model. <i>Scientific Reports</i> , 2019, 9, 4908.	1.6	51
20	Plant sterol oxidation products –“ Analogs to cholesterol oxidation products from plant origin?. <i>Biochimie</i> , 2013, 95, 464-472.	1.3	49
21	7,8-Dihydroxyflavone improves memory consolidation processes in rats and mice. <i>Behavioural Brain Research</i> , 2013, 257, 8-12.	1.2	49
22	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, 425-431.	1.5	46
23	Relapsing-remitting multiple sclerosis patients display an altered lipoprotein profile with dysfunctional HDL. <i>Scientific Reports</i> , 2017, 7, 43410.	1.6	45
24	The plant sterol brassicasterol as additional CSF biomarker in Alzheimer's disease. <i>Acta Psychiatrica Scandinavica</i> , 2011, 124, 184-192.	2.2	43
25	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, 451-456.	1.5	43
26	Phosphodiesterase Type 4 Inhibition in CNS Diseases. <i>Trends in Pharmacological Sciences</i> , 2019, 40, 971-985.	4.0	41
27	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.	2.9	41
28	Cerebral Accumulation of Dietary Derivable Plant Sterols does not Interfere with Memory and Anxiety Related Behavior in Abcg5 <sup>-/-</sup> /Abcg8 <sup>-/-</sup> Mice. <i>Plant Foods for Human Nutrition</i> , 2011, 66, 149-156.	1.4	38
29	Roflumilast promotes memory recovery and attenuates white matter injury in aged rats subjected to chronic cerebral hypoperfusion. <i>Neuropharmacology</i> , 2018, 138, 360-370.	2.0	37
30	Aging Induces Tissue-Specific Changes in Cholesterol Metabolism in Rat Brain and Liver. <i>Lipids</i> , 2013, 48, 1069-1077.	0.7	35
31	Active liver X receptor signaling in phagocytes in multiple sclerosis lesions. <i>Multiple Sclerosis Journal</i> , 2018, 24, 279-289.	1.4	35
32	Edible seaweed-derived constituents: an undisclosed source of neuroprotective compounds. <i>Neural Regeneration Research</i> , 2020, 15, 790.	1.6	34
33	Liver X Receptor Alpha Is Important in Maintaining Blood-Brain Barrier Function. <i>Frontiers in Immunology</i> , 2019, 10, 1811.	2.2	33
34	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.	7.1	33
35	Alterations in Brain Cholesterol Metabolism in the APPSLxPS1mut mouse, a Model for Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2010, 19, 117-127.	1.2	32
36	Differential effects on inhibition of cholesterol absorption by plant stanol and plant sterol esters in apoE <sup>-/-</sup> mice. <i>Cardiovascular Research</i> , 2011, 90, 484-492.	1.8	30

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37	Scavenger receptor collectin placenta 1 is a novel receptor involved in the uptake of myelin by phagocytes. <i>Scientific Reports</i> , 2017, 7, 44794.	1.6	30
38	Methylglyoxal-Derived Advanced Glycation Endproducts Accumulate in Multiple Sclerosis Lesions. <i>Frontiers in Immunology</i> , 2019, 10, 855.	2.2	30
39	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.	3.3	29
40	Targeting Phosphodiesterases Towards a Tailor-Made Approach in Multiple Sclerosis Treatment. <i>Frontiers in Immunology</i> , 2019, 10, 1727.	2.2	28
41	Effects of prenatal stress exposure on soluble A $\beta$ and brain-derived neurotrophic factor signaling in male and female APP <sup>swe</sup> /PS1 <sup>dE9</sup> mice. <i>Neurochemistry International</i> , 2012, 61, 697-701.	1.9	27
42	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, 547-556.	1.3	27
43	Cholesterol and Synaptic Compensatory Mechanisms in Alzheimer's Disease Mice Brain During Aging. <i>Journal of Alzheimer's Disease</i> , 2012, 31, 813-826.	1.2	25
44	Sphingosine-1-Phosphate Receptor Modulators and Oligodendroglial Cells: Beyond Immunomodulation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7537.	1.8	23
45	TrkB in the hippocampus and nucleus accumbens differentially modulates depression-like behavior in mice. <i>Behavioural Brain Research</i> , 2016, 296, 15-25.	1.2	22
46	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.	2.4	22
47	Targeting demyelination via $\beta$ -secretases promoting sAPP $\beta$ release to enhance remyelination in central nervous system. <i>Neurobiology of Disease</i> , 2018, 109, 11-24.	2.1	20
48	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.	2.4	20
49	Apolipoprotein C1 Knock-Out Mice Display Impaired Memory Functions. <i>Journal of Alzheimer's Disease</i> , 2011, 23, 737-747.	1.2	19
50	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.	1.2	19
51	The role of receptor MAS in microglia-driven retinal vascular development. <i>Angiogenesis</i> , 2019, 22, 481-489.	3.7	19
52	Apolipoprotein Isoform <i>E4</i> Does Not Increase Coronary Heart Disease Risk in Carriers of Low-Density Lipoprotein Receptor Mutations. <i>Circulation: Cardiovascular Genetics</i> , 2011, 4, 655-660.	5.1	17
53	Low-Density Lipoprotein Receptor Deficiency Attenuates Neuroinflammation through the Induction of Apolipoprotein E. <i>Frontiers in Immunology</i> , 2017, 8, 1701.	2.2	17
54	Neuroinflammation in Ischemic Stroke: Inhibition of cAMP-Specific Phosphodiesterases (PDEs) to the Rescue. <i>Biomedicines</i> , 2021, 9, 703.	1.4	17

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55	Brown Seaweed Food Supplementation: Effects on Allergy and Inflammation and Its Consequences. <i>Nutrients</i> , 2021, 13, 2613.	1.7	16
56	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, 1311.	1.8	15
57	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.	2.0	15
58	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.	1.5	15
59	Fluoxetine Treatment Induces Seizure Behavior and Premature Death in APP <sup>swE</sup> /PS1 <sup>dE9</sup> Mice. <i>Journal of Alzheimer's Disease</i> , 2016, 51, 677-682.	1.2	13
60	PDE inhibition in distinct cell types to reclaim the balance of synaptic plasticity. <i>Theranostics</i> , 2021, 11, 2080-2097.	4.6	13
61	Carnosine quenches the reactive carbonyl acrolein in the central nervous system and attenuates autoimmune neuroinflammation. <i>Journal of Neuroinflammation</i> , 2021, 18, 255.	3.1	13
62	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.	3.0	12
63	24(S)-Saringosterol Prevents Cognitive Decline in a Mouse Model for Alzheimer's Disease. <i>Marine Drugs</i> , 2021, 19, 190.	2.2	12
64	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.	0.7	11
65	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.	1.1	10
66	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.	1.0	9
67	Twelve Weeks of Medium-Intensity Exercise Therapy Affects the Lipoprotein Profile of Multiple Sclerosis Patients. <i>International Journal of Molecular Sciences</i> , 2018, 19, 193.	1.8	8
68	Liver X receptor beta deficiency attenuates autoimmune-associated neuroinflammation in a T cell-dependent manner. <i>Journal of Autoimmunity</i> , 2021, 124, 102723.	3.0	8
69	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.	0.7	7
70	Limited daily feeding and intermittent feeding have different effects on regional brain energy homeostasis during aging. <i>Biogerontology</i> , 2018, 19, 121-132.	2.0	7
71	Ivory Arthroplasty for Trapeziometacarpal Joint Arthritis in Men: Analysis of Clinical Outcome and Implant Survival. <i>Hand</i> , 2022, 17, 440-446.	0.7	6
72	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.	0.8	6

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73	24(R, S)-Saringosterol - From artefact to a biological medical agent. Journal of Steroid Biochemistry and Molecular Biology, 2021, 212, 105942.	1.2	6
74	The sGC stimulator BAY-747 and activator runcaciguat can enhance memory in vivo via differential hippocampal plasticity mechanisms. Scientific Reports, 2022, 12, 3589.	1.6	5
75	Brain cholesterol in normal and pathological aging. Oleagineux Corps Gras Lipides, 2011, 18, 214-217.	0.2	4
76	Computational investigation of the dynamic control of cAMP signaling by PDE4 isoform types. Biophysical Journal, 2022, 121, 2693-2711.	0.2	4
77	Delivery of DNA into the Central Nervous System via Electroporation. Methods in Molecular Biology, 2014, 1121, 157-163.	0.4	3
78	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. Stem Cell Research, 2021, 51, 102169.	0.3	3
79	Cholesterol Trafficking in the Brain. , 2009, , 131-155.		0
80	Response to the Letter by Singh et al Regarding "Apolipoprotein Isoform E4 Does Not Increase Coronary Heart Disease Risk in Carriers of Low-Density Lipoprotein Receptor Mutations": Circulation: Cardiovascular Genetics, 2012, 5, .	5.1	0
81	Effects of a diet supplementation with plant sterols on circulating monocytes in humans: A prospective, double-blind, randomized, placebo-controlled, cross-over study. Atherosclerosis, 2014, 235, e292.	0.4	0
82	Editorial: Neuro-Immune Connections to Enable Repair in CNS Disorders. Frontiers in Immunology, 2020, 11, 1425.	2.2	0
83	Phosphodiesterase 4D inhibition boosts remyelination in multiple sclerosis. Frontiers in Neuroscience, 0, 13, .	1.4	0
84	Complicated Replanted Finger, 34 Years after Revascularization. Plastic and Reconstructive Surgery - Global Open, 2020, 8, e3246.	0.3	0