

# Jan Mulder

## List of Publications by Year in descending order

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101  
papers

24,546  
citations

71102

41  
h-index

39675

94  
g-index

106  
all docs

106  
docs citations

106  
times ranked

46533  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue-based map of the human proteome. <i>Science</i> , 2015, 347, 1260419.	12.6	10,802
2	Analysis of the Human Tissue-specific Expression by Genome-wide Integration of Transcriptomics and Antibody-based Proteomics. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 397-406.	3.8	2,819
3	A subcellular map of the human proteome. <i>Science</i> , 2017, 356, .	12.6	2,079
4	Visualization and analysis of gene expression in tissue sections by spatial transcriptomics. <i>Science</i> , 2016, 353, 78-82.	12.6	1,983
5	A single-cell type transcriptomics map of human tissues. <i>Science Advances</i> , 2021, 7, .	10.3	632
6	An atlas of the protein-coding genes in the human, pig, and mouse brain. <i>Science</i> , 2020, 367, .	12.6	517
7	Hardwiring the Brain: Endocannabinoids Shape Neuronal Connectivity. <i>Science</i> , 2007, 316, 1212-1216.	12.6	463
8	Spatiotemporal transcriptomic atlas of mouse organogenesis using DNA nanoball-patterned arrays. <i>Cell</i> , 2022, 185, 1777-1792.e21.	28.9	437
9	Molecular interrogation of hypothalamic organization reveals distinct dopamine neuronal subtypes. <i>Nature Neuroscience</i> , 2017, 20, 176-188.	14.8	384
10	A genome-wide transcriptomic analysis of protein-coding genes in human blood cells. <i>Science</i> , 2019, 366, .	12.6	329
11	Endocannabinoid signaling controls pyramidal cell specification and long-range axon patterning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8760-8765.	7.1	263
12	The human secretome. <i>Science Signaling</i> , 2019, 12, .	3.6	259
13	Increased Abundance of Opioid Receptor Heteromers After Chronic Morphine Administration. <i>Science Signaling</i> , 2010, 3, ra54.	3.6	191
14	WNT signaling in activated microglia is proinflammatory. <i>Glia</i> , 2011, 59, 119-131.	4.9	187
15	Distinct amyloid- $\beta^2$ and tau-associated microglia profiles in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2021, 141, 681-696.	7.7	167
16	Molecular reorganization of endocannabinoid signalling in Alzheimer's disease. <i>Brain</i> , 2011, 134, 1041-1060.	7.6	164
17	Endocannabinoid functions controlling neuronal specification during brain development. <i>Molecular and Cellular Endocrinology</i> , 2008, 286, S84-S90.	3.2	149
18	Renal sensory and sympathetic nerves reinnervate the kidney in a similar time-dependent fashion after renal denervation in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 304, R675-R682.	1.8	114

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19	The Inhibitor Ko143 Is Not Specific for ABCG2. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2015, 354, 384-393.	2.5	113
20	Impact of Epithelial–Stromal Interactions on Peritumoral Fibroblasts in Ductal Carcinoma in Situ. <i>Journal of the National Cancer Institute</i> , 2019, 111, 983-995.	6.3	94
21	Pituitary autoantibodies in autoimmune polyendocrine syndrome type 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 949-954.	7.1	89
22	Anoctamin 2 identified as an autoimmune target in multiple sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2188-2193.	7.1	86
23	Renal sympathetic nerve activity modulates afferent renal nerve activity by PGE <sub>2</sub> -dependent activation of $\text{I}\pm\text{1}$ and $\text{I}\pm\text{2}$ -adrenoceptors on renal sensory nerve fibers. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 293, R1561-R1572.	1.8	82
24	Cell transcriptomic atlas of the non-human primate <i>Macaca fascicularis</i> . <i>Nature</i> , 2022, 604, 723-731.	27.8	81
25	GABA action in immature neocortical neurons directly depends on the availability of ketone bodies. <i>Journal of Neurochemistry</i> , 2009, 110, 1330-1338.	3.9	78
26	GPR39 Splice Variants Versus Antisense Gene LYPD1: Expression and Regulation in Gastrointestinal Tract, Endocrine Pancreas, Liver, and White Adipose Tissue. <i>Molecular Endocrinology</i> , 2007, 21, 1685-1698.	3.7	76
27	A secretagogen locus of the mammalian hypothalamus controls stress hormone release. <i>EMBO Journal</i> , 2015, 34, 36-54.	7.8	75
28	Secretagogen is a Ca <sup>2+</sup> -binding protein specifying subpopulations of telencephalic neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22492-22497.	7.1	69
29	N-Methyl-Aspartate Receptor Antagonist MK-801 and Radical Scavengers Protect Cholinergic Nucleus Basalis Neurons against I <sup>2</sup> -Amyloid Neurotoxicity. <i>Neurobiology of Disease</i> , 1999, 6, 109-121.	4.4	68
30	CSF profiling of the human brain enriched proteome reveals associations of neuromodulin and neurogranin to Alzheimer's disease. <i>Proteomics - Clinical Applications</i> , 2016, 10, 1242-1253.	1.6	64
31	Characterization of NPY Y2 receptor protein expression in the mouse brain. II. Coexistence with NPY, the Y1 receptor, and other neurotransmitter-related molecules. <i>Journal of Comparative Neurology</i> , 2011, 519, 1219-1257.	1.6	62
32	Input from the medial septum regulates adult hippocampal neurogenesis. <i>Brain Research Bulletin</i> , 2005, 67, 117-125.	3.0	60
33	The renaissance of Ca <sup>2+</sup> -binding proteins in the nervous system: secretagogen takes center stage. <i>Cellular Signalling</i> , 2012, 24, 378-387.	3.6	59
34	Tariquidar Is an Inhibitor and Not a Substrate of Human and Mouse P-glycoprotein. <i>Drug Metabolism and Disposition</i> , 2016, 44, 275-282.	3.3	54
35	A $\text{TRPV}$ – secretagogen regulatory axis controls pancreatic I <sup>2</sup> cell survival by modulating protein turnover. <i>EMBO Journal</i> , 2017, 36, 2107-2125.	7.8	52
36	Acute neuroinflammation in a clinically relevant focal cortical ischemic stroke model in rat: longitudinal positron emission tomography and immunofluorescent tracking. <i>Brain Structure and Function</i> , 2016, 221, 1279-1290.	2.3	49

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37	Contribution of Antibody-based Protein Profiling to the Human Chromosome-centric Proteome Project (C-HPP). <i>Journal of Proteome Research</i> , 2013, 12, 2439-2448.	3.7	48
38	Expression of p-Akt in Sensory Neurons and Spinal Cord after Peripheral Nerve Injury. <i>NeuroSignals</i> , 2009, 17, 203-212.	0.9	47
39	Neuronal calcium-binding proteins 1/2 localize to dorsal root ganglia and excitatory spinal neurons and are regulated by nerve injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1149-58.	7.1	47
40	Hypothalamic mitochondrial dysfunction associated with anorexia in the <i>anx/anx</i> mouse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18108-18113.	7.1	46
41	The expression of inflammatory markers and their potential influence on efflux transporters in drug-resistant mesial temporal lobe epilepsy tissue. <i>Epilepsia</i> , 2018, 59, 1507-1517.	5.1	46
42	Oral post-lesion administration of 5-HT1A receptor agonist repinotan hydrochloride (BAY x 3702) attenuates NMDA-induced delayed neuronal death in rat magnocellular nucleus basalis. <i>Neuroscience</i> , 2001, 108, 629-642.	2.3	44
43	Defining the Human Brain Proteome Using Transcriptomics and Antibody-Based Profiling with a Focus on the Cerebral Cortex. <i>PLoS ONE</i> , 2015, 10, e0130028.	2.5	44
44	Affinity Proteomic Profiling of Plasma, Cerebrospinal Fluid, and Brain Tissue within Multiple Sclerosis. <i>Journal of Proteome Research</i> , 2014, 13, 4607-4619.	3.7	42
45	Analysis of cholinergic markers, biogenic amines, and amino acids in the CNS of two APP overexpression mouse models. <i>Neurochemistry International</i> , 2005, 46, 409-422.	3.8	39
46	17 $\beta$ -Estradiol enhances cortical cholinergic innervation and preserves synaptic density following excitotoxic lesions to the rat nucleus basalis magnocellularis. <i>Neuroscience</i> , 2002, 110, 489-504.	2.3	36
47	Critical role of somatostatin receptor 2 in the vulnerability of the central noradrenergic system: new aspects on Alzheimer's disease. <i>Acta Neuropathologica</i> , 2015, 129, 541-563.	7.7	36
48	The Polarised Life of the Endocannabinoid System in CNS Development. <i>ChemBioChem</i> , 2009, 10, 1591-1598.	2.6	34
49	Secretagogin is a Ca <sup>2+</sup> -binding protein identifying prospective extended amygdala neurons in the developing mammalian telencephalon. <i>European Journal of Neuroscience</i> , 2010, 31, 2166-2177.	2.6	34
50	Secretagogin is Expressed in Sensory CGRP Neurons and in Spinal Cord of Mouse and Complements other Calcium-Binding Proteins, with a Note on Rat and Human. <i>Molecular Pain</i> , 2012, 8, 1744-8069-8-80.	2.1	34
51	A specific antibody to detect transcription factor T-Pit: a reliable marker of corticotroph cell differentiation and a tool to improve the classification of pituitary neuroendocrine tumours. <i>Acta Neuropathologica</i> , 2017, 134, 675-677.	7.7	32
52	Survival-associated heterogeneity of marker-defined perivascular cells in colorectal cancer. <i>Oncotarget</i> , 0, 7, 41948-41958.	1.8	30
53	Disorganization and degeneration of liver sympathetic innervations in nonalcoholic fatty liver disease revealed by 3D imaging. <i>Science Advances</i> , 2021, 7, .	10.3	29
54	High levels of WNT-5A in human glioma correlate with increased presence of tumor-associated microglia/monocytes. <i>Experimental Cell Research</i> , 2015, 339, 280-288.	2.6	28

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55	Imaging of a Clinically Relevant Stroke Model. <i>Stroke</i> , 2015, 46, 835-842.	2.0	26
56	Lesion Size Is Exacerbated in Hypoxic Rats Whereas Hypoxia-Inducible Factor-1 Alpha and Vascular Endothelial Growth Factor Increase in Injured Normoxic Rats: A Prospective Cohort Study of Secondary Hypoxia in Focal Traumatic Brain Injury. <i>Frontiers in Neurology</i> , 2016, 7, 23.	2.4	26
57	Injury Leads to the Appearance of Cells with Characteristics of Both Microglia and Astrocytes in Mouse and Human Brain. <i>Cerebral Cortex</i> , 2017, 27, 3360-3377.	2.9	26
58	Short-term consequences of N-methyl-D-aspartate excitotoxicity in rat magnocellular nucleus basalis: effects on in vivo labelling of cholinergic neurons. <i>Neuroscience</i> , 2001, 108, 611-627.	2.3	22
59	FZD10-G $\alpha$ 13 signalling axis points to a role of FZD10 in CNS angiogenesis. <i>Cellular Signalling</i> , 2017, 32, 93-103.	3.6	22
60	Autoimmune Encephalitis Presenting With Malignant Catatonia in a 40-Year-Old Male Patient With COVID-19. <i>American Journal of Psychiatry</i> , 2021, 178, 485-489.	7.2	22
61	Endothelial cell heterogeneity and microglia regulons revealed by a pig cell landscape at single-cell level. <i>Nature Communications</i> , 2022, 13, .	12.8	22
62	Galantamine-induced behavioral recovery after sublethal excitotoxic lesions to the rat medial septum. <i>Behavioural Brain Research</i> , 2005, 163, 33-41.	2.2	20
63	An automated method measures variability in P-glycoprotein and ABCG2 densities across brain regions and brain matter. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2062-2075.	4.3	20
64	Tissue Profiling of the Mammalian Central Nervous System Using Human Antibody-based Proteomics. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 1612-1622.	3.8	19
65	Mass spectrometric analysis of synaptosomal membrane preparations for the determination of brain receptors, transporters and channels. <i>Proteomics</i> , 2016, 16, 2911-2920.	2.2	19
66	Cortical cholinergic decline parallels the progression of Borna virus encephalitis. <i>NeuroReport</i> , 2001, 12, 3767-3772.	1.2	18
67	Autoantibodies in autoimmune polyglandular syndrome type I patients react with major brain neurotransmitter systems. <i>Journal of Comparative Neurology</i> , 2009, 513, 1-20.	1.6	18
68	G Protein-Gated Inwardly Rectifying Potassium Channel Subunits 1 and 2 are Down-Regulated in Rat Dorsal Root Ganglion Neurons and Spinal Cord after Peripheral Axotomy. <i>Molecular Pain</i> , 2015, 11, s12990-015-0044.	2.1	18
69	Vesicular glutamate transporter 3 (VGLUT3) identifies spatially segregated excitatory terminals in the rat substantia nigra. <i>European Journal of Neuroscience</i> , 2006, 23, 1063-1070.	2.6	17
70	Development of [ <sup>11</sup> C]/[ <sup>3</sup> H]THK-5351 – A potential novel carbon-11 tau imaging PET radioligand. <i>Nuclear Medicine and Biology</i> , 2017, 46, 50-53.	0.6	16
71	Ca <sup>2+</sup> -binding protein NECAB2 facilitates inflammatory pain hypersensitivity. <i>Journal of Clinical Investigation</i> , 2018, 128, 3757-3768.	8.2	15
72	Comparative anatomical distribution of neuronal calcium-binding protein (NECAB) 1 and -2 in rodent and human spinal cord. <i>Brain Structure and Function</i> , 2016, 221, 3803-3823.	2.3	14

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73	Genome-wide annotation of protein-coding genes in pig. BMC Biology, 2022, 20, 25.	3.8	14
74	Dishevelled enables casein kinase 1-mediated phosphorylation of Frizzled 6 required for cell membrane localization. Journal of Biological Chemistry, 2018, 293, 18477-18493.	3.4	13
75	Neonatal handling increases sensitivity to acute neurodegeneration in adult rats. Journal of Neurobiology, 2004, 60, 463-472.	3.6	12
76	Systematically generated antibodies against human gene products: High throughput screening on sections from the rat nervous system. Neuroscience, 2007, 146, 1689-1703.	2.3	12
77	A manual multiplex immunofluorescence method for investigating neurodegenerative diseases. Journal of Neuroscience Methods, 2020, 339, 108708.	2.5	12
78	Distinct subsets of nucleus basalis neurons exhibit similar sensitivity to excitotoxicity. NeuroReport, 2002, 13, 767-772.	1.2	11
79	Life-long impairment of glucose homeostasis upon prenatal exposure to psychostimulants. EMBO Journal, 2020, 39, e100882.	7.8	11
80	GABAergic Terminals Are a Source of Galanin to Modulate Cholinergic Neuron Development in the Neonatal Forebrain. Cerebral Cortex, 2014, 24, 3277-3288.	2.9	10
81	Molecular- and Organelle-Based Predictive Paradigm Underlying Recovery by Left Ventricular Assist Device Support. Circulation: Heart Failure, 2014, 7, 359-366.	3.9	10
82	Evaluation of efficacy of a new MEK inhibitor, RO4987655, in human tumor xenografts by [18F] FDG-PET imaging combined with proteomic approaches. EJNMMI Research, 2014, 4, 34.	2.5	9
83	FOXP3+ T cells in uterine sarcomas are associated with favorable prognosis, low extracellular matrix expression and reduced YAP activation. Npj Precision Oncology, 2021, 5, 97.	5.4	9
84	Neuronal Expression of Opioid Gene is Controlled by Dual Epigenetic and Transcriptional Mechanism in Human Brain. Cerebral Cortex, 2018, 28, 3129-3142.	2.9	8
85	Exploring autoantibody signatures in brain tissue from patients with severe mental illness. Translational Psychiatry, 2020, 10, 401.	4.8	8
86	Indirect immunofluorescence for detecting anti-neuronal autoimmunity in CSF after COVID-19 - Possibilities and pitfalls. Brain, Behavior, and Immunity, 2021, 94, 473-474.	4.1	8
87	Opioid precursor protein isoform is targeted to the cell nuclei in the human brain. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 246-255.	2.4	6
88	In vitro phosphodiesterase 10A (PDE10A) binding in whole hemisphere human brain using the PET radioligand [18F]MNI-659. Brain Research, 2019, 1711, 140-145.	2.2	6
89	Expression and regulation of FRMD6 in mouse DRG neurons and spinal cord after nerve injury. Scientific Reports, 2020, 10, 1880.	3.3	6
90	<p>G Protein-Gated Inwardly Rectifying Potassium Channel Subunit 3 is Upregulated in Rat DRGs and Spinal Cord After Peripheral Nerve Injury</p>. Journal of Pain Research, 2020, Volume 13, 419-429.	2.0	5

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91	A porcine brain-wide RNA editing landscape. <i>Communications Biology</i> , 2021, 4, 717.	4.4	5
92	Regional distribution of biogenic amines, amino acids and cholinergic markers in the CNS of the C57BL/6 strain. <i>Amino Acids</i> , 2005, 28, 377-387.	2.7	4
93	Visualization of angiogenesis during cancer development in the polyoma middle T breast cancer model: molecular imaging with (R)-[11C]PAQ. <i>EJNMMI Research</i> , 2014, 4, 17.	2.5	4
94	Increased levels of inflammatory markers in the subscapularis tendon and joint capsule in patients with subacromial impingement. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 2228-2236.	4.2	2
95	The cellular basis of increased PET hypoxia tracer uptake in focal cerebral ischemia with comparison between [18F]FMISO and [64Cu]CuATSM. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 617-629.	4.3	2
96	Autoantibodies in autoimmune polyglandular syndrome type I patients react with major brain neurotransmitter systems. <i>Journal of Comparative Neurology</i> , 2009, 513, spc1-spc1.	1.6	0
97	Autoantibodies in autoimmune polyglandular syndrome type I patients react with major brain neurotransmitter systems. <i>Journal of Comparative Neurology</i> , 2009, 513, spc1-spc1.	1.6	0
98	Characterization of neuropeptide Y2 receptor protein expression in the mouse brain. II. Coexistence with NPY, the Y1 receptor, and other neurotransmitter-related molecules. <i>Journal of Comparative Neurology</i> , 2011, 519, spc1.	1.6	0
99	Tumor perivascular PDGFBR as an independent prognostic factor in metastatic colorectal cancer.. <i>Journal of Clinical Oncology</i> , 2013, 31, 3571-3571.	1.6	0
100	Digitalized multiparametric analyses of tumor stroma for identification of low perivascular PDGFBR expression and low vessel density as independent prognosis markers for stage IV CRC.. <i>Journal of Clinical Oncology</i> , 2014, 32, e14525-e14525.	1.6	0
101	Abstract C38: Marker-defined perivascular cells predict prognosis and response to treatment. , 2016, , .		0