

# Fritz G Rathjen

## List of Publications by Year in descending order

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42  
papers

1,904  
citations

304743

22  
h-index

265206

42  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2339  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural cell recognition molecule L1: from cell biology to human hereditary brain malformations. <i>Current Opinion in Neurobiology</i> , 1998, 8, 87-97.	4.2	221
2	Structure/function relationships of axon-associated adhesion receptors of the immunoglobulin superfamily. <i>Current Opinion in Neurobiology</i> , 1996, 6, 584-593.	4.2	165
3	Coxsackievirus-adenovirus receptor (CAR) is essential for early embryonic cardiac development. <i>Journal of Cell Science</i> , 2005, 118, 3509-3521.	2.0	121
4	cGMP-mediated signaling via cGKI $\pm$ is required for the guidance and connectivity of sensory axons. <i>Journal of Cell Biology</i> , 2002, 159, 489-498.	5.2	116
5	Dissection of Complex Molecular Interactions of Neurofascin with Axonin-1, F11, and Tenascin-R, Which Promote Attachment and Neurite Formation of Tectal Cells. <i>Journal of Cell Biology</i> , 1998, 142, 1083-1093.	5.2	99
6	The receptor guanylyl cyclase Npr2 is essential for sensory axon bifurcation within the spinal cord. <i>Journal of Cell Biology</i> , 2007, 179, 331-340.	5.2	90
7	C-type natriuretic peptide (CNP) is a bifurcation factor for sensory neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16847-16852.	7.1	84
8	Neurotractin/kilon promotes neurite outgrowth and is expressed on reactive astrocytes after entorhinal cortex lesion. <i>Molecular and Cellular Neurosciences</i> , 2005, 29, 580-590.	2.2	73
9	Signalling mechanisms regulating axonal branching <i>in vivo</i> . <i>BioEssays</i> , 2010, 32, 977-985.	2.5	67
10	Neurotractin, A Novel Neurite Outgrowth-promoting Ig-like Protein that Interacts with CEPU-1 and LAMP. <i>Journal of Cell Biology</i> , 1999, 145, 865-876.	5.2	66
11	Functional Inactivation of the Genome-Wide Association Study Obesity Gene Neuronal Growth Regulator 1 in Mice Causes a Body Mass Phenotype. <i>PLoS ONE</i> , 2012, 7, e41537.	2.5	66
12	Organization of the Neurofascin Gene and Analysis of Developmentally Regulated Alternative Splicing. <i>Journal of Biological Chemistry</i> , 1997, 272, 28742-28749.	3.4	61
13	The Coxsackievirus-Adenovirus Receptor Reveals Complex Homophilic and Heterophilic Interactions on Neural Cells. <i>Journal of Neuroscience</i> , 2010, 30, 2897-2910.	3.6	60
14	Bifurcation of Axons from Cranial Sensory Neurons Is Disabled in the Absence of Npr2-Induced cGMP Signaling. <i>Journal of Neuroscience</i> , 2014, 34, 737-747.	3.6	58
15	Chicken Acidic Leucine-rich EGF-like Domain Containing Brain Protein (CALEB), a Neural Member of the EGF Family of Differentiation Factors, Is Implicated in Neurite Formation. <i>Journal of Cell Biology</i> , 1997, 136, 895-906.	5.2	51
16	Neuregulin 3 promotes excitatory synapse formation on hippocampal interneurons. <i>EMBO Journal</i> , 2018, 37, .	7.8	45
17	Neural cell recognition molecule F11: Membrane interaction by covalently attached phosphatidylinositol. <i>Biochemical and Biophysical Research Communications</i> , 1989, 161, 931-938.	2.1	35
18	Impaired Synapse Function during Postnatal Development in the Absence of CALEB, an EGF-like Protein Processed by Neuronal Activity. <i>Neuron</i> , 2005, 46, 233-245.	8.1	34

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19	The cell adhesion molecule BT-IgSF is essential for a functional bloodâ€testis barrier and male fertility in mice. <i>Journal of Biological Chemistry</i> , 2017, 292, 21490-21503.	3.4	33
20	CALEB Binds via Its Acidic Stretch to the Fibrinogen-like Domain of Tenascin-C or Tenascin-R and Its Expression Is Dynamically Regulated after Optic Nerve Lesion. <i>Journal of Biological Chemistry</i> , 2001, 276, 7337-7345.	3.4	31
21	The Absence of Sensory Axon Bifurcation Affects Nociception and Termination Fields of Afferents in the Spinal Cord. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 19.	2.9	27
22	Dil-Labeling of DRG Neurons to Study Axonal Branching in a Whole Mount Preparation of Mouse Embryonic Spinal Cord. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	25
23	The IgCAM CLMP is required for intestinal and ureteral smooth muscle contraction by regulating Connexin43 and 45 expression in mice. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	23
24	Loss of Axon Bifurcation in Mesencephalic Trigeminal Neurons Impairs the Maximal Biting Force in Npr2-Deficient Mice. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 153.	3.7	23
25	Tenascin-R Induces Actin-Rich Microprocesses and Branches along Neurite Shafts. <i>Molecular and Cellular Neurosciences</i> , 2002, 21, 626-633.	2.2	22
26	Dorsal root ganglion axon bifurcation tolerates increased cyclic $\text{GMP}$ levels: the role of phosphodiesterase 2A and scavenger receptor Npr3. <i>European Journal of Neuroscience</i> , 2016, 44, 2991-3000.	2.6	22
27	Molecular Analysis of Sensory Axon Branching Unraveled a cGMP-Dependent Signaling Cascade. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1266.	4.1	22
28	Cell-cell communication mediated by the CAR subgroup of immunoglobulin cell adhesion molecules in health and disease. <i>Molecular and Cellular Neurosciences</i> , 2017, 81, 32-40.	2.2	20
29	Impaired presynaptic function and elimination of synapses at premature stages during postnatal development of the cerebellum in the absence of CALEB (CSPG5/neuroglycan C). <i>European Journal of Neuroscience</i> , 2013, 38, 3270-3280.	2.6	17
30	The cell adhesion protein CAR is a negative regulator of synaptic transmission. <i>Scientific Reports</i> , 2019, 9, 6768.	3.3	17
31	Regulation of the Natriuretic Peptide Receptor 2 (Npr2) by Phosphorylation of Juxtamembrane Serine and Threonine Residues Is Essential for Bifurcation of Sensory Axons. <i>Journal of Neuroscience</i> , 2018, 38, 9768-9780.	3.6	14
32	Early-Life Stress Regulates Cardiac Development through an IL-4-Glucocorticoid Signaling Balance. <i>Cell Reports</i> , 2020, 33, 108404.	6.4	14
33	S-palmitoylation Is Required for the Control of Growth Cone Morphology of DRG Neurons by CNP-Induced cGMP Signaling. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 345.	2.9	13
34	The IgCAMs CAR, BT-IgSF, and CLMP: Structure, Function, and Diseases. <i>Advances in Neurobiology</i> , 2014, 8, 21-45.	1.8	12
35	The CAR group of Ig cell adhesion proteinsâ€Regulators of gap junctions?. <i>BioEssays</i> , 2020, 42, e2000031.	2.5	11
36	Early Days of Tenascin-R Research: Two Approaches Discovered and Shed Light on Tenascin-R. <i>Frontiers in Immunology</i> , 2020, 11, 612482.	4.8	10

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37	Regulation of Adhesion by Flexible Ectodomains of IgCAMs. <i>Neurochemical Research</i> , 2013, 38, 1092-1099.	3.3	9
38	Early maturation of GABAergic synapses in mouse retinal ganglion cells. <i>International Journal of Developmental Neuroscience</i> , 2008, 26, 233-238.	1.6	8
39	A Genetic Strategy for the Analysis of Individual Axon Morphologies in cGMP Signalling Mutant Mice. <i>Methods in Molecular Biology</i> , 2013, 1020, 193-204.	0.9	7
40	Sensory Neurons: The Formation of T-Shaped Branches Is Dependent on a cGMP-Dependent Signaling Cascade. <i>Neuroscientist</i> , 2021, 27, 47-57.	3.5	5
41	The Ig CAM CAR is Implicated in Cardiac Development and Modulates Electrical Conduction in the Mature Heart. <i>Journal of Cardiovascular Development and Disease</i> , 2014, 1, 111-120.	1.6	4
42	cGMP signaling and branching of sensory axons in the spinal cord. <i>Future Neurology</i> , 2012, 7, 639-651.	0.5	1