

# Frank W Pfriederger

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

9,687  
citations

94269

37  
h-index

110170

64  
g-index

71  
all docs

71  
docs citations

71  
times ranked

10548  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                        | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Tanycytes control hypothalamic liraglutide uptake and its anti-obesity actions. <i>Cell Metabolism</i> , 2022, 34, 1054-1063.e7.                                                                                               | 7.2 | 28        |
| 2  | Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , 2021, 24, 312-325.                                                                                                           | 7.1 | 1,098     |
| 3  | TeamTree analysis: A new approach to evaluate scientific production. <i>PLoS ONE</i> , 2021, 16, e0253847.                                                                                                                     | 1.1 | 2         |
| 4  | Glial contribution to cyclodextrin-mediated reversal of cholesterol accumulation in murine NPC1-deficient neurons in vivo. <i>Neurobiology of Disease</i> , 2021, 158, 105469.                                                 | 2.1 | 6         |
| 5  | Neurodegenerative Diseases and Cholesterol: Seeing the Field Through the Players. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 766587.                                                                                   | 1.7 | 13        |
| 6  | Expression Patterns of Inducible Cre Recombinase Driven by Differential Astrocyte-Specific Promoters in Transgenic Mouse Lines. <i>Neuroscience Bulletin</i> , 2020, 36, 530-544.                                              | 1.5 | 33        |
| 7  | Understanding and Treating Niemann-Pick Type C Disease: Models Matter. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8979.                                                                                    | 1.8 | 20        |
| 8  | Mapping astrocyte activity domains by light sheet imaging and spatio-temporal correlation screening. <i>NeuroImage</i> , 2020, 220, 117069.                                                                                    | 2.1 | 14        |
| 9  | Glucocorticoid receptor in astrocytes regulates midbrain dopamine neurodegeneration through connexin hemichannel activity. <i>Cell Death and Differentiation</i> , 2019, 26, 580-596.                                          | 5.0 | 53        |
| 10 | Loss of Mevalonate/Cholesterol Homeostasis in the Brain: A Focus on Autism Spectrum Disorder and Rett Syndrome. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3317.                                           | 1.8 | 35        |
| 11 | Thematic Review Series: Exosomes and Microvesicles: Lipids as Key Components of their Biogenesis and Functions, Cholesterol and the journey of extracellular vesicles. <i>Journal of Lipid Research</i> , 2018, 59, 2255-2261. | 2.0 | 94        |
| 12 | Learning from Barres. <i>Glia</i> , 2018, 66, 1537-1541.                                                                                                                                                                       | 2.5 | 0         |
| 13 | Altered Brain Cholesterol/Isoprenoid Metabolism in a Rat Model of Autism Spectrum Disorders. <i>Neuroscience</i> , 2018, 372, 27-37.                                                                                           | 1.1 | 48        |
| 14 | Astrocyte-derived Jagged-1 mitigates deleterious Notch signaling in amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2018, 119, 26-40.                                                                          | 2.1 | 35        |
| 15 | Suppression of SNARE-dependent exocytosis in retinal glial cells and its effect on ischemia-induced neurodegeneration. <i>Glia</i> , 2017, 65, 1059-1071.                                                                      | 2.5 | 17        |
| 16 | An autocrine purinergic signaling controls astrocyte-induced neuronal excitation. <i>Scientific Reports</i> , 2017, 7, 11280.                                                                                                  | 1.6 | 48        |
| 17 | A molecular mechanism for the topographic alignment of convergent neural maps. <i>ELife</i> , 2017, 6, .                                                                                                                       | 2.8 | 17        |
| 18 | Modulation of the Isoprenoid/Cholesterol Biosynthetic Pathway During Neuronal Differentiation In Vitro. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 2036-2044.                                                        | 1.2 | 27        |

| #  | ARTICLE                                                                                                                                                                                               | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | The Role of Hypothalamic NF- $\kappa$ B Signaling in the Response of the HPT-Axis to Acute Inflammation in Female Mice. <i>Endocrinology</i> , 2016, 157, 2947-2956.                                  | 1.4 | 19        |
| 20 | Reversal of Pathologic Lipid Accumulation in NPC1-Deficient Neurons by Drug-Promoted Release of LAMP1-Coated Lamellar Inclusions. <i>Journal of Neuroscience</i> , 2016, 36, 8012-8025.               | 1.7 | 26        |
| 21 | Calcium dynamics in astrocyte processes during neurovascular coupling. <i>Nature Neuroscience</i> , 2015, 18, 210-218.                                                                                | 7.1 | 235       |
| 22 | Migration Speed of Cajal-Retzius Cells Modulated by Vesicular Trafficking Controls the Size of Higher-Order Cortical Areas. <i>Current Biology</i> , 2015, 25, 2466-2478.                             | 1.8 | 54        |
| 23 | Synaptic Integration of Adult-Born Hippocampal Neurons Is Locally Controlled by Astrocytes. <i>Neuron</i> , 2015, 88, 957-972.                                                                        | 3.8 | 220       |
| 24 | Defective response inhibition and collicular noradrenaline enrichment in mice with duplicated retinotopic map in the superior colliculus. <i>Brain Structure and Function</i> , 2015, 220, 1573-1584. | 1.2 | 8         |
| 25 | Cholesterol in brain disease: sometimes determinant and frequently implicated. <i>EMBO Reports</i> , 2014, 15, 1036-1052.                                                                             | 2.0 | 224       |
| 26 | Relevance of neuronal and glial NPC1 for synaptic input to cerebellar Purkinje cells. <i>Molecular and Cellular Neurosciences</i> , 2014, 61, 65-71.                                                  | 1.0 | 15        |
| 27 | CXCR4 prevents dispersion of granule neuron precursors in the adult dentate gyrus. <i>Hippocampus</i> , 2013, 23, 1345-1358.                                                                          | 0.9 | 31        |
| 28 | Relevance of Exocytotic Glutamate Release from Retinal Glia. <i>Neuron</i> , 2012, 74, 504-516.                                                                                                       | 3.8 | 69        |
| 29 | Genetic approaches to study glial cells in the rodent brain. <i>Glia</i> , 2012, 60, 681-701.                                                                                                         | 2.5 | 40        |
| 30 | Isolation and characterization of living primary astroglial cells using the new GLAST-specific monoclonal antibody ACSA-1. <i>Glia</i> , 2012, 60, 894-907.                                           | 2.5 | 61        |
| 31 | Cholesterol metabolism in neurons and astrocytes. <i>Progress in Lipid Research</i> , 2011, 50, 357-371.                                                                                              | 5.3 | 363       |
| 32 | Role of astroglial connexin30 in hippocampal gap junction coupling. <i>Glia</i> , 2011, 59, 511-519.                                                                                                  | 2.5 | 73        |
| 33 | Glial cells promote dendrite formation and the reception of synaptic input in Purkinje cells from postnatal mice. <i>Glia</i> , 2010, 58, 538-545.                                                    | 2.5 | 24        |
| 34 | Origin of New Glial Cells in Intact and Injured Adult Spinal Cord. <i>Cell Stem Cell</i> , 2010, 7, 470-482.                                                                                          | 5.2 | 533       |
| 35 | Role of glial cells in the formation and maintenance of synapses. <i>Brain Research Reviews</i> , 2010, 63, 39-46.                                                                                    | 9.1 | 108       |
| 36 | RBPJ <sup>2</sup> -Dependent Signaling Is Essential for Long-Term Maintenance of Neural Stem Cells in the Adult Hippocampus. <i>Journal of Neuroscience</i> , 2010, 30, 13794-13807.                  | 1.7 | 294       |

| #  | ARTICLE                                                                                                                                                     | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Lack of Niemann-Pick type C1 induces age-related degeneration in the mouse retina. <i>Molecular and Cellular Neurosciences</i> , 2010, 43, 164-176.         | 1.0 | 76        |
| 38 | Letter from the Guest Editor. <i>Cell Adhesion and Migration</i> , 2009, 3, 27-28.                                                                          | 1.1 | 1         |
| 39 | Roles of glial cells in synapse development. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 2037-2047.                                             | 2.4 | 69        |
| 40 | Marked differences in cholesterol synthesis between neurons and glial cells from postnatal rats. <i>Journal of Neurochemistry</i> , 2009, 109, 125-134.     | 2.1 | 221       |
| 41 | Implication of neuropilin 2/semaphorin 3F in retinocollicular map formation. <i>Developmental Dynamics</i> , 2008, 237, 3394-3403.                          | 0.8 | 24        |
| 42 | Glia-induced neuronal differentiation by transcriptional regulation. <i>Glia</i> , 2007, 55, 1108-1122.                                                     | 2.5 | 36        |
| 43 | Transgenic mice for conditional gene manipulation in astroglial cells. <i>Glia</i> , 2007, 55, 1565-1576.                                                   | 2.5 | 137       |
| 44 | Regional variations in the glial influence on synapse development in the mouse CNS. <i>Journal of Physiology</i> , 2006, 577, 249-261.                      | 1.3 | 47        |
| 45 | Synaptic plasticity, astrocytes and morphological homeostasis. <i>Journal of Physiology (Paris)</i> , 2006, 99, 84-91.                                      | 2.1 | 34        |
| 46 | Multiple mechanisms mediate cholesterol-induced synaptogenesis in a CNS neuron. <i>Molecular and Cellular Neurosciences</i> , 2005, 29, 190-201.            | 1.0 | 263       |
| 47 | Role of astrocytes in the formation, maturation and maintenance of synapses. , 2004, , 417-436.                                                             |     | 1         |
| 48 | Outsourcing in the brain: Do neurons depend on cholesterol delivery by astrocytes?. <i>BioEssays</i> , 2003, 25, 72-78.                                     | 1.2 | 271       |
| 49 | A link between cholesterol, synapse plasticity, degeneration and neurological disorders: Reinvention or integration?. <i>BioEssays</i> , 2003, 25, 736-737. | 1.2 | 3         |
| 50 | Response to Dr. Koudinov's letter. <i>BioEssays</i> , 2003, 25, 737-737.                                                                                    | 1.2 | 0         |
| 51 | New roles for astrocytes: Regulation of CNS synaptogenesis. <i>Trends in Neurosciences</i> , 2003, 26, 531-535.                                             | 4.2 | 197       |
| 52 | Role of cholesterol in synapse formation and function. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1610, 271-280.                           | 1.4 | 256       |
| 53 | Cholesterol homeostasis and function in neurons of the central nervous system. <i>Cellular and Molecular Life Sciences</i> , 2003, 60, 1158-1171.           | 2.4 | 351       |
| 54 | Purification of embryonic stem cell-derived neurons by immunoisolation. <i>FASEB Journal</i> , 2003, 17, 1-10.                                              | 0.2 | 37        |

| #  | ARTICLE                                                                                                                                                                | IF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Role of glia-derived cholesterol in synaptogenesis: new revelations in the synapseâ€ˆglia affair. Journal of Physiology (Paris), 2002, 96, 257-263.                    | 2.1  | 101       |
| 56 | Role of glia in synapse development. Current Opinion in Neurobiology, 2002, 12, 486-490.                                                                               | 2.0  | 56        |
| 57 | CNS Synaptogenesis Promoted by Glia-Derived Cholesterol. Science, 2001, 294, 1354-1357.                                                                                | 6.0  | 1,463     |
| 58 | Gliaâ€ˆderived signals induce synapse formation in neurones of the rat central nervous system. Journal of Physiology, 2001, 533, 665-679.                              | 1.3  | 170       |
| 59 | Synaptic Efficacy Enhanced by Glial Cells in Vitro. Science, 1997, 277, 1684-1687.                                                                                     | 6.0  | 692       |
| 60 | New views on synapseâ€ˆglia interactions. Current Opinion in Neurobiology, 1996, 6, 615-621.                                                                           | 2.0  | 143       |
| 61 | Characterization of the signaling interactions that promote the survival and growth of developing retinal ganglion cells in culture. Neuron, 1995, 15, 805-819.        | 3.8  | 774       |
| 62 | What the fly's glia tell the fly's brain. Cell, 1995, 83, 671-674.                                                                                                     | 13.5 | 66        |
| 63 | The formation of glutamatergic synapses in cultured central neurons: selective increase in miniature synaptic currents. Developmental Brain Research, 1994, 81, 77-88. | 2.1  | 27        |
| 64 | Kinetics of GABAB receptor-mediated inhibition of calcium currents and excitatory synaptic transmission in hippocampal neurons in vitro. Neuron, 1994, 12, 97-107.     | 3.8  | 112       |
| 65 | Pharmacological characterization of calcium currents and synaptic transmission between thalamic neurons in vitro. Journal of Neuroscience, 1992, 12, 4347-4357.        | 1.7  | 65        |