

# Heikki Rauvala

## List of Publications by Year in descending order

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35  
papers

2,417  
citations

331670

21  
h-index

361022

35  
g-index

35  
all docs

35  
docs citations

35  
times ranked

3709  
citing authors

#	ARTICLE	IF	CITATIONS
1	Receptor for Advanced Glycation End Products (RAGE)-mediated Neurite Outgrowth and Activation of NF- $\kappa$ B Require the Cytoplasmic Domain of the Receptor but Different Downstream Signaling Pathways. <i>Journal of Biological Chemistry</i> , 1999, 274, 19919-19924.	3.4	570
2	Regulation of monocyte migration by amphoterin (HMGB1). <i>Blood</i> , 2004, 104, 1174-1182.	1.4	234
3	High Affinity Binding and Overlapping Localization of Neurocan and Phosphacan/Protein-tyrosine Phosphatase- $\eta$ / $\beta$ with Tenascin-R, Amphoterin, and the Heparin-binding Growth-associated Molecule. <i>Journal of Biological Chemistry</i> , 1998, 273, 6998-7005.	3.4	166
4	Heparan sulfate proteoglycan syndecan-3 is a novel receptor for GDNF, neurturin, and artemin. <i>Journal of Cell Biology</i> , 2011, 192, 153-169.	5.2	164
5	Receptor for Advanced Glycation End Products (RAGE) Signaling Induces CREB-dependent Chromogranin Expression during Neuronal Differentiation. <i>Journal of Biological Chemistry</i> , 2002, 277, 38635-38646.	3.4	152
6	Kv2 Ion Channels Determine the Expression and Localization of the Associated AMIGO-1 Cell Adhesion Molecule in Adult Brain Neurons. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 1.	2.9	151
7	Neurite Outgrowth in Brain Neurons Induced by Heparin-binding Growth-associated Molecule (HB-GAM) Depends on the Specific Interaction of HB-GAM with Heparan Sulfate at the Cell Surface. <i>Journal of Biological Chemistry</i> , 1996, 271, 2243-2248.	3.4	112
8	Physiological and pathophysiological outcomes of the interactions of HMGB1 with cell surface receptors. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2010, 1799, 164-170.	1.9	94
9	RAGE as a Receptor of HMGB1 (Amphoterin): Roles in Health and Disease. <i>Current Molecular Medicine</i> , 2007, 7, 725-734.	1.3	92
10	Expression of HB-GAM (heparin-binding growth-associated molecules) in the pathways of developing axonal processes in vivo and neurite outgrowth in vitro induced by HB-GAM. <i>Developmental Brain Research</i> , 1994, 79, 157-176.	1.7	88
11	Role of Heparin-Binding Growth-Associated Molecule (HB-GAM) in Hippocampal LTP and Spatial Learning Revealed by Studies on Overexpressing and Knockout Mice. <i>Molecular and Cellular Neurosciences</i> , 2002, 20, 330-342.	2.2	85
12	HMGB1 Contributes to Regeneration After Spinal Cord Injury in Adult Zebrafish. <i>Molecular Neurobiology</i> , 2014, 49, 472-483.	4.0	76
13	Reversible Disruption of Neuronal Mitochondria by Ischemic and Traumatic Injury Revealed by Quantitative Two-Photon Imaging in the Neocortex of Anesthetized Mice. <i>Journal of Neuroscience</i> , 2017, 37, 333-348.	3.6	50
14	Flat-floored Air-lifted Platform: A New Method for Combining Behavior with Microscopy or Electrophysiology on Awake Freely Moving Rodents. <i>Journal of Visualized Experiments</i> , 2014, , e51869.	0.3	44
15	HB-GAM (pleiotrophin) reverses inhibition of neural regeneration by the CNS extracellular matrix. <i>Scientific Reports</i> , 2016, 6, 33916.	3.3	43
16	JNK1 controls dendritic field size in L2/3 and L5 of the motor cortex, constrains soma size, and influences fine motor coordination. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 272.	3.7	32
17	Axonal Amphoterin mRNA Is Regulated by Translational Control and Enhances Axon Outgrowth. <i>Journal of Neuroscience</i> , 2015, 35, 5693-5706.	3.6	32
18	Inhibition and enhancement of neural regeneration by chondroitin sulfate proteoglycans. <i>Neural Regeneration Research</i> , 2017, 12, 687.	3.0	31

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19	AMIGO-Kv2.1 Potassium Channel Complex is Associated With Schizophrenia-Related Phenotypes. <i>Schizophrenia Bulletin</i> , 2016, 42, sbv105.	4.3	25
20	Circulating nucleosomes as predictive markers of severe acute pancreatitis. <i>Journal of Intensive Care</i> , 2016, 4, 14.	2.9	22
21	Ultrastructural Localization of $\beta$ -Actin and Amphotericin mRNA in Cultured Cells: Application of Tyramide Signal Amplification and Comparison of Detection Methods. <i>Journal of Histochemistry and Cytochemistry</i> , 1999, 47, 99-112.	2.5	21
22	Association of brain immune genes with social behavior of inbred mouse strains. <i>Journal of Neuroinflammation</i> , 2015, 12, 75.	7.2	20
23	Quantitative changes in perineuronal nets in development and posttraumatic condition. <i>Journal of Molecular Histology</i> , 2019, 50, 203-216.	2.2	18
24	Regulation of Neurogenesis in Mouse Brain by HMGB1. <i>Cells</i> , 2020, 9, 1714.	4.1	17
25	HMGB4 is expressed by neuronal cells and affects the expression of genes involved in neural differentiation. <i>Scientific Reports</i> , 2016, 6, 32960.	3.3	14
26	Impact of JNK and Its Substrates on Dendritic Spine Morphology. <i>Cells</i> , 2020, 9, 440.	4.1	13
27	Spatial patterns and cell surface clusters in perineuronal nets. <i>Brain Research</i> , 2016, 1648, 214-223.	2.2	11
28	Mice Deficient in Transmembrane Prostatic Acid Phosphatase Display Increased GABAergic Transmission and Neurological Alterations. <i>PLoS ONE</i> , 2014, 9, e97851.	2.5	9
29	Reversible Disruption of Neuronal Mitochondria by Ischemic and Traumatic Injury Revealed by Quantitative Two-Photon Imaging in the Neocortex of Anesthetized Mice. <i>Journal of Neuroscience</i> , 2017, 37, 333-348.	3.6	9
30	AMIGO2 modulates T cell functions and its deficiency in mice ameliorates experimental autoimmune encephalomyelitis. <i>Brain, Behavior, and Immunity</i> , 2017, 62, 110-123.	4.1	6
31	Protective Role of Low Ethanol Administration Following Ischemic Stroke via Recovery of KCC2 and p75NTR Expression. <i>Molecular Neurobiology</i> , 2021, 58, 1145-1161.	4.0	5
32	Acute Brain Trauma in Mice Followed By Longitudinal Two-photon Imaging. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	4
33	Inhibition of Homophilic Interactions and Ligand Binding of the Receptor for Advanced Glycation End Products by Heparin and Heparin-Related Carbohydrate Structures. <i>Medicines (Basel, Switzerland)</i> , 2018, 5, 79.	1.4	4
34	Low-Molecular Weight Protamine Overcomes Chondroitin Sulfate Inhibition of Neural Regeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 865275.	3.7	2
35	Heparin-Binding Growth-Associated Molecule (Pleiotrophin) Affects Sensory Signaling and Selected Motor Functions in Mouse Model of Anatomically Incomplete Cervical Spinal Cord Injury. <i>Frontiers in Neurology</i> , 2021, 12, 738800.	2.4	1