

# Adalberto Merighi

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98  
papers

6,714  
citations

37  
h-index

81  
g-index

108  
ext. papers

7,214  
ext. citations

4.6  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
98	Anatomy, physiological features, genetics and genetic alterations, breeding and strain differences relevant to the choice of the model. <i>Impact of 3Rs</i> <b>2022</b> , 47-79		
97	Dendrites of Neocortical Pyramidal Neurons: The Key to Understand Intellectual Disability. <i>Cellular and Molecular Neurobiology</i> , <b>2021</b> , 1	4.6	1
96	Neurochemical and Ultrastructural Characterization of Unmyelinated Non-peptidergic C-Nociceptors and C-Low Threshold Mechanoreceptors Projecting to Lamina II of the Mouse Spinal Cord. <i>Cellular and Molecular Neurobiology</i> , <b>2021</b> , 41, 247-262	4.6	4
95	Mesenchymal stem cell conditioned medium increases glial reactivity and decreases neuronal survival in spinal cord slice cultures. <i>Biochemistry and Biophysics Reports</i> , <b>2021</b> , 26, 100976	2.2	1
94	Interplay of BDNF and GDNF in the Mature Spinal Somatosensory System and Its Potential Therapeutic Relevance. <i>Current Neuropharmacology</i> , <b>2021</b> , 19, 1225-1245	7.6	4
93	Association of Caspase 3 Activation and H2AX Phosphorylation in the Aging Brain: Studies on Untreated and Irradiated Mice. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	2
92	Cross Talk of BDNF and GDNF in Spinal Substantia Gelatinosa (Lamina II): Focus on Circuitry. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1331, 215-229	3.6	
91	Cytoarchitectural analysis of the neuron-to-glia association in the dorsal root ganglia of normal and diabetic mice. <i>Journal of Anatomy</i> , <b>2020</b> , 237, 988-997	2.9	2
90	Protective Effects of Some Grapevine Polyphenols against Naturally Occurring Neuronal Death. <i>Molecules</i> , <b>2020</b> , 25,	4.8	1
89	Differential chloride homeostasis in the spinal dorsal horn locally shapes synaptic metaplasticity and modality-specific sensitization. <i>Nature Communications</i> , <b>2020</b> , 11, 3935	17.4	17
88	Decreased Expression of Synaptophysin 1 (SYP1 Major Synaptic Vesicle Protein p38) and Contactin 6 (CNTN6/NB3) in the Cerebellar Vermis of reln Haplodeficient Mice. <i>Cellular and Molecular Neurobiology</i> , <b>2019</b> , 39, 833-856	4.6	2
87	Neuroanatomie des Menschen. <i>Springer-Lehrbuch</i> , <b>2019</b> ,	0.4	16
86	The Mouse: A Translational Model of Human Neurological Conditions, or Simply a Good Tool for Better Understanding Neurodevelopment?. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	7
85	The Use of Rodent Platforms in Neuroscience Translational Research With Attention to the 3Rs Philosophy. <i>Frontiers in Veterinary Science</i> , <b>2018</b> , 5, 164	3.1	14
84	The histology, physiology, neurochemistry and circuitry of the substantia gelatinosa Rolandi (lamina II) in mammalian spinal cord. <i>Progress in Neurobiology</i> , <b>2018</b> , 169, 91-134	10.9	20
83	Caspase-3 Mediated Cell Death in the Normal Development of the Mammalian Cerebellum. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	89
82	Costorage of High Molecular Weight Neurotransmitters in Large Dense Core Vesicles of Mammalian Neurons. <i>Frontiers in Cellular Neuroscience</i> , <b>2018</b> , 12, 272	6.1	11

81	GABA receptors-mediated tonic inhibition of glutamate release from A $\beta$ fibers in rat laminae III/IV of the spinal cord dorsal horn. <i>Molecular Pain</i> , <b>2017</b> , 13, 1744806917710041	3.4	18
80	Neuropeptides and Coexistence <b>2017</b> ,		2
79	Biochemical markers in vascular cognitive impairment associated with subcortical small vessel disease - A consensus report. <i>BMC Neurology</i> , <b>2017</b> , 17, 102	3.1	41
78	Ultrastructural Localization of BDNF and trkB Receptors. <i>NeuroMethods</i> , <b>2017</b> , 133-148	0.4	
77	Targeting the glial-derived neurotrophic factor and related molecules for controlling normal and pathologic pain. <i>Expert Opinion on Therapeutic Targets</i> , <b>2016</b> , 20, 193-208	6.4	19
76	The number of Purkinje neurons and their topology in the cerebellar vermis of normal and reelin haplodeficient mouse. <i>Annals of Anatomy</i> , <b>2016</b> , 207, 68-75	2.9	8
75	Anatomical features for an adequate choice of experimental animal model in biomedicine: II. Small laboratory rodents, rabbit, and pig. <i>Annals of Anatomy</i> , <b>2016</b> , 204, 11-28	2.9	46
74	Cell death and neurodegeneration in the postnatal development of cerebellar vermis in normal and Reeler mice. <i>Annals of Anatomy</i> , <b>2016</b> , 207, 76-90	2.9	13
73	Alterations of Cell Proliferation and Apoptosis in the Hypoplastic Reeler Cerebellum. <i>Frontiers in Cellular Neuroscience</i> , <b>2016</b> , 10, 141	6.1	6
72	Capsaicin, Nociception and Pain. <i>Molecules</i> , <b>2016</b> , 21,	4.8	96
71	Peripheral and central alterations affecting spinal nociceptive processing and pain at adulthood in rats exposed to neonatal maternal deprivation. <i>European Journal of Neuroscience</i> , <b>2016</b> , 44, 1952-62	3.5	10
70	Ex vivo imaging of active caspase 3 by a FRET-based molecular probe demonstrates the cellular dynamics and localization of the protease in cerebellar granule cells and its regulation by the apoptosis-inhibiting protein survivin. <i>Molecular Neurodegeneration</i> , <b>2016</b> , 11, 34	19	21
69	Anatomical features for the adequate choice of experimental animal models in biomedicine: I. Fishes. <i>Annals of Anatomy</i> , <b>2016</b> , 205, 75-84	2.9	28
68	Immunocytochemistry and Related Techniques. <i>NeuroMethods</i> , <b>2015</b> ,	0.4	1
67	Practical mechanical threshold estimation in rodents using von Frey hairs/Semmes-Weinstein monofilaments: Towards a rational method. <i>Journal of Neuroscience Methods</i> , <b>2015</b> , 255, 92-103	3	58
66	Neuronal Cell Death. <i>Methods in Molecular Biology</i> , <b>2015</b> ,	1.4	2
65	Neuronal cell death: an overview of its different forms in central and peripheral neurons. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1254, 1-18	1.4	13
64	Real-time visualization of caspase-3 activation by fluorescence resonance energy transfer (FRET). <i>Methods in Molecular Biology</i> , <b>2015</b> , 1254, 99-113	1.4	3

63	Transfection Techniques and Combined Immunocytochemistry in Cell Cultures and Organotypic Slices. <i>Neuromethods</i> , <b>2015</b> , 329-355	0.4	3
62	The Evolution of Immunocytochemistry in the Dissection of Neural Complexity. <i>Neuromethods</i> , <b>2015</b> , 1-35	0.4	
61	Presynaptic modulation of spinal nociceptive transmission by glial cell line-derived neurotrophic factor (GDNF). <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 13819-33	6.6	22
60	Phosphorylation of histone H2AX in the mouse brain from development to senescence. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 1554-73	6.3	19
59	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , <b>2012</b> , 8, 445-544	46.2	2783
58	Context-dependent toxicity of amyloid- $\beta$ peptides on mouse cerebellar cells. <i>Journal of Alzheimers Disease</i> , <b>2012</b> , 30, 41-51	4.3	2
57	Combined light and electron microscopic visualization of neuropeptides and their receptors in central neurons. <i>Methods in Molecular Biology</i> , <b>2011</b> , 789, 57-71	1.4	5
56	Neuromodulatory function of neuropeptides in the normal CNS. <i>Journal of Chemical Neuroanatomy</i> , <b>2011</b> , 42, 276-87	3.2	34
55	Direct in situ rt-PCR. <i>Methods in Molecular Biology</i> , <b>2011</b> , 789, 111-26	1.4	6
54	The somatostatin analogue octreotide inhibits capsaicin-mediated activation of nociceptive primary afferent fibres in spinal cord lamina II (substantia gelatinosa). <i>European Journal of Pain</i> , <b>2011</b> , 15, 591-9	3.7	12
53	Autophagy regulates the post-translational cleavage of BCL-2 and promotes neuronal survival. <i>Scientific World Journal, The</i> , <b>2010</b> , 10, 924-9	2.2	11
52	Modulation of inhibitory neurotransmission by the vanilloid receptor type 1 (TRPV1) in organotypically cultured mouse substantia gelatinosa neurons. <i>Pain</i> , <b>2010</b> , 150, 128-140	8	21
51	Neuropeptides and Coexistence <b>2009</b> , 843-849		2
50	Posttranslational regulation of BCL2 levels in cerebellar granule cells: A mechanism of neuronal survival. <i>Developmental Neurobiology</i> , <b>2009</b> , 69, 855-70	3.2	18
49	BDNF and TrkB Mediated Mechanisms in the Spinal Cord <b>2009</b> , 89-108		2
48	Cell death and proliferation in acute slices and organotypic cultures of mammalian CNS. <i>Progress in Neurobiology</i> , <b>2009</b> , 88, 221-45	10.9	116
47	Increased activity and altered subcellular distribution of lysosomal enzymes determine neuronal vulnerability in Niemann-Pick type C1-deficient mice. <i>American Journal of Pathology</i> , <b>2009</b> , 175, 2540-56	5.8	68
46	Ghrelin in central neurons. <i>Current Neuropharmacology</i> , <b>2009</b> , 7, 37-49	7.6	152

45	BDNF as a pain modulator. <i>Progress in Neurobiology</i> , <b>2008</b> , 85, 297-317	10.9	253
44	The gastrointestinal hormone ghrelin modulates inhibitory neurotransmission in deep laminae of mouse spinal cord dorsal horn. <i>Endocrinology</i> , <b>2008</b> , 149, 2306-12	4.8	38
43	Presynaptic functional trkB receptors mediate the release of excitatory neurotransmitters from primary afferent terminals in lamina II (substantia gelatinosa) of postnatal rat spinal cord. <i>Developmental Neurobiology</i> , <b>2008</b> , 68, 457-75	3.2	52
42	Costorage of BDNF and neuropeptides within individual dense-core vesicles in central and peripheral neurons. <i>Developmental Neurobiology</i> , <b>2007</b> , 67, 326-38	3.2	63
41	BDNF-mediated modulation of GABA and glycine release in dorsal horn lamina II from postnatal rats. <i>Developmental Neurobiology</i> , <b>2007</b> , 67, 960-75	3.2	42
40	Vanilloid receptor-1 (TRPV1)-dependent activation of inhibitory neurotransmission in spinal substantia gelatinosa neurons of mouse. <i>Pain</i> , <b>2007</b> , 129, 195-209	8	40
39	Neuropeptides as synaptic transmitters. <i>Cell and Tissue Research</i> , <b>2006</b> , 326, 583-98	4.2	118
38	Ultrastructural evidence for a pre- and postsynaptic localization of full-length trkB receptors in substantia gelatinosa (lamina II) of rat and mouse spinal cord. <i>European Journal of Neuroscience</i> , <b>2005</b> , 22, 1951-66	3.5	56
37	Apoptosis in the mammalian CNS: Lessons from animal models. <i>Veterinary Journal</i> , <b>2005</b> , 170, 52-66	2.5	18
36	Molecular morphology of neuronal apoptosis: analysis of caspase 3 activation during postnatal development of mouse cerebellar cortex. <i>Journal of Molecular Histology</i> , <b>2004</b> , 35, 621-9	3.3	25
35	In vivo analysis reveals different apoptotic pathways in pre- and postmigratory cerebellar granule cells of rabbit. <i>Journal of Neurobiology</i> , <b>2004</b> , 60, 437-52		13
34	NK1 receptor activation leads to enhancement of inhibitory neurotransmission in spinal substantia gelatinosa neurons of mouse. <i>Pain</i> , <b>2004</b> , 112, 37-47	8	13
33	Transient expression of secretin in serotonergic neurons of mouse brain during development. <i>European Journal of Neuroscience</i> , <b>2004</b> , 20, 3259-69	3.5	16
32	Neurotrophins in spinal cord nociceptive pathways. <i>Progress in Brain Research</i> , <b>2004</b> , 146, 291-321	2.9	49
31	In vivo cellular and molecular mechanisms of neuronal apoptosis in the mammalian CNS. <i>Progress in Neurobiology</i> , <b>2003</b> , 69, 287-312	10.9	125
30	Synapse-independent and synapse-dependent apoptosis of cerebellar granule cells in postnatal rabbits occur at two subsequent but partly overlapping developmental stages. <i>Neuroscience</i> , <b>2002</b> , 112, 509-23	3.9	51
29	Costorage and coexistence of neuropeptides in the mammalian CNS. <i>Progress in Neurobiology</i> , <b>2002</b> , 66, 161-90	10.9	121
28	Immunocytochemical Labeling Methods and Related Techniques for Ultrastructural Analysis of Neuronal Connectivity <b>2002</b> , 161-180		2

27	In Vivo Analysis of Cell Proliferation and Apoptosis in the CNS <b>2002</b> , 235-258		7
26	The subependymal layer in rodents: a site of structural plasticity and cell migration in the adult mammalian brain. <i>Brain Research Bulletin</i> , <b>1999</b> , 49, 221-43	3.9	184
25	Apoptosis of undifferentiated progenitors and granule cell precursors in the postnatal human cerebellar cortex correlates with expression of BCL-2, ICE, and CPP32 proteins. <i>Journal of Comparative Neurology</i> , <b>1998</b> , 399, 359-372	3.4	42
24	Carnosine-like immunoreactivity in astrocytes of the glial tubes and in newly-generated cells within the tangential part of the rostral migratory stream of rodents. <i>Neuroscience</i> , <b>1998</b> , 85, 527-42	3.9	11
23	Nitric oxide-producing islet cells modulate the release of sensory neuropeptides in the rat substantia gelatinosa. <i>Journal of Neuroscience</i> , <b>1998</b> , 18, 10375-88	6.6	56
22	Newly-generated cells from the rostral migratory stream in the accessory olfactory bulb of the adult rat. <i>Neuroscience</i> , <b>1997</b> , 81, 489-502	3.9	71
21	Glial tubes in the rostral migratory stream of the adult rat. <i>Brain Research Bulletin</i> , <b>1997</b> , 42, 9-21	3.9	217
20	In Vivo Study of the Kinetics of Thiamine and its Phosphoesters in the Deafferented Rat Cerebellum. <i>Metabolic Brain Disease</i> , <b>1997</b> , 12, 145-160	3.9	1
19	Dorsal rhizotomy induces transient expression of the highly sialylated isoform of the neural cell adhesion molecule in neurons and astrocytes of the adult rat spinal cord. <i>Neuroscience</i> , <b>1996</b> , 74, 619-23	3.9	32
18	Affinity purification and characterization of protein gene product 9.5 (PGP9.5) from retina. <i>Biochemical Journal</i> , <b>1996</b> , 318 ( Pt 2), 711-6	3.8	20
17	The early intracellular signaling pathway for the insulin/insulin-like growth factor receptor family in the mammalian central nervous system. <i>Molecular Neurobiology</i> , <b>1996</b> , 13, 155-83	6.2	75
16	Connections of two types of flat cone bipolars in the rabbit retina. <i>Journal of Comparative Neurology</i> , <b>1996</b> , 371, 164-78	3.4	21
15	Insulin receptor substrate-1 (IRS-1) distribution in the rat central nervous system. <i>Journal of Neuroscience</i> , <b>1994</b> , 14, 6412-22	6.6	118
14	Immunocytochemical staining of neuropeptides in terminal arborization of primary afferent fibers anterogradely labeled and identified at light and electron microscopic levels. <i>Journal of Neuroscience Methods</i> , <b>1992</b> , 42, 105-13	3	20
13	Distribution of protein gene product 9.5 (PGP 9.5) in the vertebrate retina: evidence that immunoreactivity is restricted to mammalian horizontal and ganglion cells. <i>Journal of Comparative Neurology</i> , <b>1992</b> , 322, 35-44	3.4	44
12	Distribution of five peptides, three general neuroendocrine markers, and two synaptic-vesicle-associated proteins in the spinal cord and dorsal root ganglia of the adult and newborn dog: an immunocytochemical study. <i>American Journal of Anatomy</i> , <b>1991</b> , 191, 154-66		15
11	Ultrastructural visualization of glutamate and aspartate immunoreactivities in the rat dorsal horn, with special reference to the co-localization of glutamate, substance P and calcitonin-gene related peptide. <i>Neuroscience</i> , <b>1991</b> , 40, 67-80	3.9	157
10	Expression of NGF receptor and NGF receptor mRNA in the developing and adult rat retina. <i>Experimental Neurology</i> , <b>1991</b> , 111, 302-11	5.7	91

- 9 Evidence for a Role of NGF in the Visual System **1991**, 347-356
- 8 The immunocytochemical distribution of seven peptides in the spinal cord and dorsal root ganglia of horse and pig. *Anatomy and Embryology*, **1990**, 181, 271-80 38
- 7 Oxytocinergic innervation of the rat spinal cord. An electron microscopic study. *Brain Research*, **1990**, 529, 178-84 3.7 69
- 6 Ultrastructural localization of neuropeptides and GABA in rat dorsal horn: a comparison of different immunogold labeling techniques. *Journal of Histochemistry and Cytochemistry*, **1989**, 37, 529-40<sup>3,4</sup> 91
- 5 Ventricular and atrial myocytes of newborn rats synthesise and secrete atrial natriuretic peptide in culture: light- and electron-microscopical localisation and chromatographic examination of stored and secreted molecular forms. *Cell and Tissue Research*, **1988**, 251, 161-9 4.2 25
- 4 Ultrastructural studies on calcitonin gene-related peptide-, tachykinins- and somatostatin-immunoreactive neurones in rat dorsal root ganglia: evidence for the colocalization of different peptides in single secretory granules. *Cell and Tissue Research*, **1988**, 254, 101-9 4.2 86
- 3 Immunohistochemical and ultrastructural localisation of peptide-containing nerves and myocardial cells in the human atrial appendage. *Cell and Tissue Research*, **1988**, 254, 155-66 4.2 56
- 2 Effects at the periphery of the laser lesion in human brain and its tumors after CO<sub>2</sub>, Nd:YAG, and CO<sub>2</sub> high-peak pulsed radiation. *Lasers in Surgery and Medicine*, **1986**, 6, 308-17 3.6 5
- 1 Ultrastructural evidence for the coexistence of calcitonin gene-related peptide and substance P in secretory vesicles of peripheral nerves in the guinea pig. *Journal of Neurocytology*, **1986**, 15, 535-42 212