

Adalberto Merighi

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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	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544.	14.2	2783
97	BDNF as a pain modulator. <i>Progress in Neurobiology</i> , 2008 , 85, 297-317	10.9	253
96	Glial tubes in the rostral migratory stream of the adult rat. <i>Brain Research Bulletin</i> , 1997 , 42, 9-21	3.9	217
95	Ultrastructural evidence for the coexistence of calcitonin gene-related peptide and substance P in secretory vesicles of peripheral nerves in the guinea pig. <i>Journal of Neurocytology</i> , 1986 , 15, 535-42		212
94	The subependymal layer in rodents: a site of structural plasticity and cell migration in the adult mammalian brain. <i>Brain Research Bulletin</i> , 1999 , 49, 221-43	3.9	184
93	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> , 1991 , 40, 67-80	3.9	157
92	Ghrelin in central neurons. <i>Current Neuropharmacology</i> , 2009 , 7, 37-49	7.6	152
91	In vivo cellular and molecular mechanisms of neuronal apoptosis in the mammalian CNS. <i>Progress in Neurobiology</i> , 2003 , 69, 287-312	10.9	125
90	Costorage and coexistence of neuropeptides in the mammalian CNS. <i>Progress in Neurobiology</i> , 2002 , 66, 161-90	10.9	121
89	Neuropeptides as synaptic transmitters. <i>Cell and Tissue Research</i> , 2006 , 326, 583-98	4.2	118
88	Insulin receptor substrate-1 (IRS-1) distribution in the rat central nervous system. <i>Journal of Neuroscience</i> , 1994 , 14, 6412-22	6.6	118
87	Cell death and proliferation in acute slices and organotypic cultures of mammalian CNS. <i>Progress in Neurobiology</i> , 2009 , 88, 221-45	10.9	116
86	Capsaicin, Nociception and Pain. <i>Molecules</i> , 2016 , 21,	4.8	96
85	Ultrastructural localization of neuropeptides and GABA in rat dorsal horn: a comparison of different immunogold labeling techniques. <i>Journal of Histochemistry and Cytochemistry</i> , 1989 , 37, 529-40	3.4	91
84	Expression of NGF receptor and NGF receptor mRNA in the developing and adult rat retina. <i>Experimental Neurology</i> , 1991 , 111, 302-11	5.7	91
83	Caspase-3 Mediated Cell Death in the Normal Development of the Mammalian Cerebellum. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	89
82	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. <i>Cell and Tissue Research</i> , 1988 , 254, 101-9	4.2	86

81	The early intracellular signaling pathway for the insulin/insulin-like growth factor receptor family in the mammalian central nervous system. <i>Molecular Neurobiology</i> , 1996 , 13, 155-83	6.2	75
80	Newly-generated cells from the rostral migratory stream in the accessory olfactory bulb of the adult rat. <i>Neuroscience</i> , 1997 , 81, 489-502	3.9	71
79	Oxytocinergic innervation of the rat spinal cord. An electron microscopic study. <i>Brain Research</i> , 1990 , 529, 178-84	3.7	69
78	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> , 2009 , 175, 2540-56	5.8	68
77	Costorage of BDNF and neuropeptides within individual dense-core vesicles in central and peripheral neurons. <i>Developmental Neurobiology</i> , 2007 , 67, 326-38	3.2	63
76	Practical mechanical threshold estimation in rodents using von Frey hairs/Semmes-Weinstein monofilaments: Towards a rational method. <i>Journal of Neuroscience Methods</i> , 2015 , 255, 92-103	3	58
75	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> , 2005 , 22, 1951-66	3.5	56
74	Nitric oxide-producing islet cells modulate the release of sensory neuropeptides in the rat substantia gelatinosa. <i>Journal of Neuroscience</i> , 1998 , 18, 10375-88	6.6	56
73	Immunohistochemical and ultrastructural localisation of peptide-containing nerves and myocardial cells in the human atrial appendage. <i>Cell and Tissue Research</i> , 1988 , 254, 155-66	4.2	56
72	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> , 2008 , 68, 457-75	3.2	52
71	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> , 2002 , 112, 509-23	3.9	51
70	Neurotrophins in spinal cord nociceptive pathways. <i>Progress in Brain Research</i> , 2004 , 146, 291-321	2.9	49
69	Anatomical features for an adequate choice of experimental animal model in biomedicine: II. Small laboratory rodents, rabbit, and pig. <i>Annals of Anatomy</i> , 2016 , 204, 11-28	2.9	46
68	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> , 1992 , 322, 35-44	3.4	44
67	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> , 1998 , 399, 359-372	3.4	42
66	BDNF-mediated modulation of GABA and glycine release in dorsal horn lamina II from postnatal rats. <i>Developmental Neurobiology</i> , 2007 , 67, 960-75	3.2	42
65	Biochemical markers in vascular cognitive impairment associated with subcortical small vessel disease - A consensus report. <i>BMC Neurology</i> , 2017 , 17, 102	3.1	41
64	Vanilloid receptor-1 (TRPV1)-dependent activation of inhibitory neurotransmission in spinal substantia gelatinosa neurons of mouse. <i>Pain</i> , 2007 , 129, 195-209	8	40

63	The gastrointestinal hormone ghrelin modulates inhibitory neurotransmission in deep laminae of mouse spinal cord dorsal horn. <i>Endocrinology</i> , 2008 , 149, 2306-12	4.8	38
62	The immunocytochemical distribution of seven peptides in the spinal cord and dorsal root ganglia of horse and pig. <i>Anatomy and Embryology</i> , 1990 , 181, 271-80		38
61	Neuromodulatory function of neuropeptides in the normal CNS. <i>Journal of Chemical Neuroanatomy</i> , 2011 , 42, 276-87	3.2	34
60	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> , 1996 , 74, 619-23 ³⁻⁹		32
59	Anatomical features for the adequate choice of experimental animal models in biomedicine: I. Fishes. <i>Annals of Anatomy</i> , 2016 , 205, 75-84	2.9	28
58	Molecular morphology of neuronal apoptosis: analysis of caspase 3 activation during postnatal development of mouse cerebellar cortex. <i>Journal of Molecular Histology</i> , 2004 , 35, 621-9	3.3	25
57	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. <i>Cell and Tissue Research</i> , 1988 , 251, 161-9	4.2	25
56	Presynaptic modulation of spinal nociceptive transmission by glial cell line-derived neurotrophic factor (GDNF). <i>Journal of Neuroscience</i> , 2014 , 34, 13819-33	6.6	22
55	Modulation of inhibitory neurotransmission by the vanilloid receptor type 1 (TRPV1) in organotypically cultured mouse substantia gelatinosa neurons. <i>Pain</i> , 2010 , 150, 128-140	8	21
54	Connections of two types of flat cone bipolars in the rabbit retina. <i>Journal of Comparative Neurology</i> , 1996 , 371, 164-78	3.4	21
53	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> , 2016 , 11, 34	19	21
52	The histology, physiology, neurochemistry and circuitry of the substantia gelatinosa Rolandi (lamina II) in mammalian spinal cord. <i>Progress in Neurobiology</i> , 2018 , 169, 91-134	10.9	20
51	Affinity purification and characterization of protein gene product 9.5 (PGP9.5) from retina. <i>Biochemical Journal</i> , 1996 , 318 (Pt 2), 711-6	3.8	20
50	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> , 1992 , 42, 105-13	3	20
49	Targeting the glial-derived neurotrophic factor and related molecules for controlling normal and pathologic pain. <i>Expert Opinion on Therapeutic Targets</i> , 2016 , 20, 193-208	6.4	19
48	Phosphorylation of histone H2AX in the mouse brain from development to senescence. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 1554-73	6.3	19
47	GABA receptors-mediated tonic inhibition of glutamate release from A β fibers in rat laminae III/IV of the spinal cord dorsal horn. <i>Molecular Pain</i> , 2017 , 13, 1744806917710041	3.4	18
46	Posttranslational regulation of BCL2 levels in cerebellar granule cells: A mechanism of neuronal survival. <i>Developmental Neurobiology</i> , 2009 , 69, 855-70	3.2	18

45	Apoptosis in the mammalian CNS: Lessons from animal models. <i>Veterinary Journal</i> , 2005 , 170, 52-66	2.5	18
44	Differential chloride homeostasis in the spinal dorsal horn locally shapes synaptic metaplasticity and modality-specific sensitization. <i>Nature Communications</i> , 2020 , 11, 3935	17.4	17
43	Transient expression of secretin in serotonergic neurons of mouse brain during development. <i>European Journal of Neuroscience</i> , 2004 , 20, 3259-69	3.5	16
42	Neuroanatomie des Menschen. <i>Springer-Lehrbuch</i> , 2019 ,	0.4	16
41	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> , 1991 , 191, 154-66		15
40	The Use of Rodent Platforms in Neuroscience Translational Research With Attention to the 3Rs Philosophy. <i>Frontiers in Veterinary Science</i> , 2018 , 5, 164	3.1	14
39	Cell death and neurodegeneration in the postnatal development of cerebellar vermis in normal and Reeler mice. <i>Annals of Anatomy</i> , 2016 , 207, 76-90	2.9	13
38	In vivo analysis reveals different apoptotic pathways in pre- and postmigratory cerebellar granule cells of rabbit. <i>Journal of Neurobiology</i> , 2004 , 60, 437-52		13
37	NK1 receptor activation leads to enhancement of inhibitory neurotransmission in spinal substantia gelatinosa neurons of mouse. <i>Pain</i> , 2004 , 112, 37-47	8	13
36	Neuronal cell death: an overview of its different forms in central and peripheral neurons. <i>Methods in Molecular Biology</i> , 2015 , 1254, 1-18	1.4	13
35	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> , 2011 , 15, 591-9	3.7	12
34	Autophagy regulates the post-translational cleavage of BCL-2 and promotes neuronal survival. <i>Scientific World Journal, The</i> , 2010 , 10, 924-9	2.2	11
33	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> , 1998 , 85, 527-42	3.9	11
32	Costorage of High Molecular Weight Neurotransmitters in Large Dense Core Vesicles of Mammalian Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 272	6.1	11
31	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> , 2016 , 44, 1952-62	3.5	10
30	The number of Purkinje neurons and their topology in the cerebellar vermis of normal and reln haplodeficient mouse. <i>Annals of Anatomy</i> , 2016 , 207, 68-75	2.9	8
29	The Mouse: A Translational Model of Human Neurological Conditions, or Simply a Good Tool for Better Understanding Neurodevelopment?. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	7
28	In Vivo Analysis of Cell Proliferation and Apoptosis in the CNS 2002 , 235-258		7

27	Direct in situ rt-PCR. <i>Methods in Molecular Biology</i> , 2011 , 789, 111-26	1.4	6
26	Alterations of Cell Proliferation and Apoptosis in the Hypoplastic Reeler Cerebellum. <i>Frontiers in Cellular Neuroscience</i> , 2016 , 10, 141	6.1	6
25	Combined light and electron microscopic visualization of neuropeptides and their receptors in central neurons. <i>Methods in Molecular Biology</i> , 2011 , 789, 57-71	1.4	5
24	Effects at the periphery of the laser lesion in human brain and its tumors after CO ₂ , Nd:YAG, and CO ₂ high-peak pulsed radiation. <i>Lasers in Surgery and Medicine</i> , 1986 , 6, 308-17	3.6	5
23	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> , 2021 , 41, 247-262	4.6	4
22	Interplay of BDNF and GDNF in the Mature Spinal Somatosensory System and Its Potential Therapeutic Relevance. <i>Current Neuropharmacology</i> , 2021 , 19, 1225-1245	7.6	4
21	Real-time visualization of caspase-3 activation by fluorescence resonance energy transfer (FRET). <i>Methods in Molecular Biology</i> , 2015 , 1254, 99-113	1.4	3
20	Transfection Techniques and Combined Immunocytochemistry in Cell Cultures and Organotypic Slices. <i>Neuromethods</i> , 2015 , 329-355	0.4	3
19	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> , 2019 , 39, 833-856	4.6	2
18	Neuronal Cell Death. <i>Methods in Molecular Biology</i> , 2015 ,	1.4	2
17	Cytoarchitectural analysis of the neuron-to-glia association in the dorsal root ganglia of normal and diabetic mice. <i>Journal of Anatomy</i> , 2020 , 237, 988-997	2.9	2
16	Neuropeptides and Coexistence 2017 ,		2
15	Neuropeptides and Coexistence 2009 , 843-849		2
14	BDNF and TrkB Mediated Mechanisms in the Spinal Cord 2009 , 89-108		2
13	Context-dependent toxicity of amyloid- β peptides on mouse cerebellar cells. <i>Journal of Alzheimers Disease</i> , 2012 , 30, 41-51	4.3	2
12	Association of Caspase 3 Activation and H2AX γ Phosphorylation in the Aging Brain: Studies on Untreated and Irradiated Mice. <i>Biomedicine</i> , 2021 , 9,	4.8	2
11	Immunocytochemical Labeling Methods and Related Techniques for Ultrastructural Analysis of Neuronal Connectivity 2002 , 161-180		2
10	Immunocytochemistry and Related Techniques. <i>Neuromethods</i> , 2015 ,	0.4	1

9	In Vivo Study of the Kinetics of Thiamine and its Phosphoesters in the Deafferented Rat Cerebellum. <i>Metabolic Brain Disease</i> , 1997 , 12, 145-160	3.9	1
8	Protective Effects of Some Grapevine Polyphenols against Naturally Occurring Neuronal Death. <i>Molecules</i> , 2020 , 25,	4.8	1
7	Dendrites of Neocortical Pyramidal Neurons: The Key to Understand Intellectual Disability. <i>Cellular and Molecular Neurobiology</i> , 2021 , 1	4.6	1
6	Mesenchymal stem cell conditioned medium increases glial reactivity and decreases neuronal survival in spinal cord slice cultures. <i>Biochemistry and Biophysics Reports</i> , 2021 , 26, 100976	2.2	1
5	Ultrastructural Localization of BDNF and trkB Receptors. <i>Neuromethods</i> , 2017 , 133-148	0.4	
4	Anatomy, physiological features, genetics and genetic alterations, breeding and strain differences relevant to the choice of the model Impact of 3Rs 2022 , 47-79		
3	Evidence for a Role of NGF in the Visual System 1991 , 347-356		
2	The Evolution of Immunocytochemistry in the Dissection of Neural Complexity. <i>Neuromethods</i> , 2015 , 1-35	0.4	
1	Cross Talk of BDNF and GDNF in Spinal Substantia Gelatinosa (Lamina II): Focus on Circuitry. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1331, 215-229	3.6	