

Loreta Medina

List of Publications by Year in descending order

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84
papers

7,360
citations

66234

42
h-index

69108

77
g-index

87
all docs

87
docs citations

87
times ranked

3942
citing authors

#	ARTICLE	IF	CITATIONS
1	Revised nomenclature for avian telencephalon and some related brainstem nuclei. <i>Journal of Comparative Neurology</i> , 2004, 473, 377-414.	0.9	1,054
2	Avian brains and a new understanding of vertebrate brain evolution. <i>Nature Reviews Neuroscience</i> , 2005, 6, 151-159.	4.9	930
3	Do birds possess homologues of mammalian primary visual, somatosensory and motor cortices?. <i>Trends in Neurosciences</i> , 2000, 23, 1-12.	4.2	376
4	Structural and functional evolution of the basal ganglia in vertebrates. <i>Brain Research Reviews</i> , 1998, 28, 235-285.	9.1	351
5	Pathway tracing using biotinylated dextran amines. <i>Journal of Neuroscience Methods</i> , 2000, 103, 23-37.	1.3	308
6	Expression of Dbx1, Neurogenin 2, Semaphorin 5A, Cadherin 8, and Emx1 distinguish ventral and lateral pallial histogenetic divisions in the developing mouse claustramygdaloid complex. <i>Journal of Comparative Neurology</i> , 2004, 474, 504-523.	0.9	221
7	Distribution of choline acetyltransferase immunoreactivity in the pigeon brain. <i>Journal of Comparative Neurology</i> , 1994, 342, 497-537.	0.9	195
8	Histogenetic compartments of the mouse centromedial and extended amygdala based on gene expression patterns during development. <i>Journal of Comparative Neurology</i> , 2008, 506, 46-74.	0.9	180
9	Expression of the genes GAD67 and Distal-less-4 in the forebrain of <i>Xenopus laevis</i> confirms a common pattern in tetrapods. <i>Journal of Comparative Neurology</i> , 2003, 461, 370-393.	0.9	150
10	Expression of the genes Emx1, Tbr1, and Eomes (Tbr2) in the telencephalon of <i>Xenopus laevis</i> confirms the existence of a ventral pallial division in all tetrapods. <i>Journal of Comparative Neurology</i> , 2004, 474, 562-577.	0.9	145
11	Neurotransmitter Organization and Connectivity of the Basal Ganglia in Vertebrates: Implications for the Evolution of Basal Ganglia (Part 1 of 2). <i>Brain, Behavior and Evolution</i> , 1995, 46, 235-246.	0.9	139
12	Development and evolution of the pallium. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 698-711.	2.3	127
13	Field homology as a way to reconcile genetic and developmental variability with adult homology. <i>Brain Research Bulletin</i> , 2002, 57, 243-255.	1.4	125
14	Distribution of choline acetyltransferase immunoreactivity in the brain of the lizard <i>Gallotia galloti</i> . <i>Journal of Comparative Neurology</i> , 1993, 331, 261-285.	0.9	113
15	Brainstem motoneuron pools that are selectively resistant in amyotrophic lateral sclerosis are preferentially enriched in parvalbumin: Evidence from monkey brainstem for a calcium-mediated mechanism in sporadic ALS. <i>Experimental Neurology</i> , 1995, 131, 239-250.	2.0	105
16	Subdivisions and derivatives of the chicken subpallium based on expression of LIM and other regulatory genes and markers of neuron subpopulations during development. <i>Journal of Comparative Neurology</i> , 2009, 515, 465-501.	0.9	102
17	Cadherin expression by embryonic divisions and derived gray matter structures in the telencephalon of the chicken. <i>Journal of Comparative Neurology</i> , 2001, 438, 253-285.	0.9	100
18	Identification of the Anterior Nucleus of the Ansa Lenticularis in Birds as the Homolog of the Mammalian Subthalamic Nucleus. <i>Journal of Neuroscience</i> , 2000, 20, 6998-7010.	1.7	97

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19	Contribution of Genoarchitecture to Understanding Forebrain Evolution and Development, with Particular Emphasis on the Amygdala. <i>Brain, Behavior and Evolution</i> , 2011, 78, 216-236.	0.9	92
20	Combinatorial expression of Lef1, Lhx2, Lhx5, Lhx9, Lmo3, Lmo4, and Prox1 helps to identify comparable subdivisions in the developing hippocampal formation of mouse and chicken. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 59.	0.9	88
21	Avian Homologues of Mammalian Intralaminar, Mediodorsal and Midline Thalamic Nuclei: Immunohistochemical and Hodological Evidence. <i>Brain, Behavior and Evolution</i> , 1997, 49, 78-98.	0.9	85
22	Multiple telencephalic and extratelencephalic embryonic domains contribute neurons to the medial extended amygdala. <i>Journal of Comparative Neurology</i> , 2011, 519, 1505-1525.	0.9	81
23	The avian subpallium: New insights into structural and functional subdivisions occupying the lateral subpallial wall and their embryological origins. <i>Brain Research</i> , 2011, 1424, 67-101.	1.1	77
24	Light and electron microscopic evidence for projections from the thalamic nucleus rotundus to targets in the basal ganglia, the dorsal ventricular ridge, and the amygdaloid complex in a lizard. <i>Journal of Comparative Neurology</i> , 2000, 424, 216-232.	0.9	71
25	Similarities and differences in the forebrain expression of <i>Lhx1</i> and <i>Lhx5</i> between chicken and mouse: Insights for understanding telencephalic development and evolution. <i>Journal of Comparative Neurology</i> , 2010, 518, 3512-3528.	0.9	70
26	β -Catenin Signalling in Glioblastoma Multiforme and Glioma-Initiating Cells. <i>Chemotherapy Research and Practice</i> , 2012, 2012, 1-7.	1.6	70
27	Evidence for a possible avian dorsal thalamic region comparable to the mammalian ventral anterior, ventral lateral, and oral ventroposterolateral nuclei. , 1997, 384, 86-108.		69
28	Genetic and experimental evidence supports the continuum of the central extended amygdala and a mutiple embryonic origin of its principal neurons. <i>Journal of Comparative Neurology</i> , 2011, 519, 3507-3531.	0.9	69
29	Organization of the mouse dorsal thalamus based on topology, calretinin immunostaining, and gene expression. <i>Brain Research Bulletin</i> , 2002, 57, 439-442.	1.4	66
30	Olfactory and amygdalar structures of the chicken ventral pallium based on the combinatorial expression patterns of LIM and other developmental regulatory genes. <i>Journal of Comparative Neurology</i> , 2009, 516, 166-186.	0.9	64
31	Distribution of neuropeptide Y-like immunoreactivity in the brain of the lizard <i>Gallotia galloti</i> . <i>Journal of Comparative Neurology</i> , 1992, 319, 387-405.	0.9	62
32	Comparative aspects of the basal ganglia-tectal pathways in reptiles. <i>Journal of Comparative Neurology</i> , 1991, 308, 614-629.	0.9	56
33	Immunohistochemical localization of DARPP32 in striatal projection neurons and striatal interneurons in pigeons. <i>Journal of Chemical Neuroanatomy</i> , 1998, 16, 17-33.	1.0	55
34	Expression of regulatory genes in the embryonic brain of a lizard and implications for understanding pallial organization and evolution. <i>Journal of Comparative Neurology</i> , 2018, 526, 166-202.	0.9	55
35	Neural architecture of the vertebrate brain: implications for the interaction between emotion and cognition. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 107, 296-312.	2.9	55
36	Calretinin is largely localized to a unique population of striatal interneurons in rats. <i>Brain Research</i> , 1996, 709, 145-150.	1.1	52

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37	Development of catecholamine systems in the brain of the lizard <i>Gallotia galloti</i> . <i>Journal of Comparative Neurology</i> , 1994, 350, 41-62.	0.9	51
38	Calcium-binding proteins, neuronal nitric oxide synthase, and GABA help to distinguish different pallial areas in the developing and adult chicken. I. Hippocampal formation and hyperpallium. <i>Journal of Comparative Neurology</i> , 2006, 497, 751-771.	0.9	51
39	Differential Expression of LIM-Homeodomain Factors in Cajal-Retzius Cells of Primates, Rodents, and Birds. <i>Cerebral Cortex</i> , 2010, 20, 1788-1798.	1.6	51
40	Differential abundance of superoxide dismutase in interneurons versus projection neurons and in matrix versus striosome neurons in monkey striatum. <i>Brain Research</i> , 1996, 708, 59-70.	1.1	50
41	Radial derivatives of the mouse ventral pallium traced with Dbx1-LacZ reporters. <i>Journal of Chemical Neuroanatomy</i> , 2016, 75, 2-19.	1.0	47
42	Comparative functional analysis provides evidence for a crucial role for the homeobox gene <i>Nkx2.1</i> in forebrain evolution. <i>Journal of Comparative Neurology</i> , 2008, 506, 211-223.	0.9	44
43	The Olfactory Amygdala in Amniotes: An EvoDevo Approach. <i>Anatomical Record</i> , 2013, 296, 1317-1332.	0.8	44
44	Development of neurons and fibers containing calcium binding proteins in the pallial amygdala of mouse, with special emphasis on those of the basolateral amygdalar complex. <i>Journal of Comparative Neurology</i> , 2005, 488, 492-513.	0.9	42
45	Embryonic and postnatal development of GABA, calbindin, calretinin, and parvalbumin in the mouse claustral complex. <i>Journal of Comparative Neurology</i> , 2005, 481, 42-57.	0.9	41
46	Contribution of Genoarchitecture to Understanding Hippocampal Evolution and Development. <i>Brain, Behavior and Evolution</i> , 2017, 90, 25-40.	0.9	41
47	Refocusing neuroscience: moving away from mental categories and towards complex behaviours. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20200534.	1.8	40
48	Cholinergic, Monoaminergic and Peptidergic Innervation of the Primary Visual Centers in the Brain of the Lizards <i>Gekko gecko</i> and <i>Gallotia galloti</i> . <i>Brain, Behavior and Evolution</i> , 1992, 40, 157-181.	0.9	38
49	Differential Abundance of Glutamate Transporter Subtypes in Amyotrophic Lateral Sclerosis (ALS)-Vulnerable versus ALS-Resistant Brain Stem Motor Cell Groups. <i>Experimental Neurology</i> , 1996, 142, 287-295.	2.0	38
50	Cadherin expression delineates the divisions of the postnatal and adult mouse amygdala. <i>Journal of Comparative Neurology</i> , 2012, 520, 3982-4012.	0.9	37
51	The Avian Brain Nomenclature Forum: Terminology for a New Century in Comparative Neuroanatomy. <i>Journal of Comparative Neurology</i> , 2004, 473, E1-E6.	0.9	37
52	Expression patterns of developmental regulatory genes show comparable divisions in the telencephalon of <i>Xenopus</i> and mouse: insights into the evolution of the forebrain. <i>Brain Research Bulletin</i> , 2005, 66, 297-302.	1.4	36
53	Subpallial Structures. , 2012, , 173-220.		36
54	Genoarchitecture of the extended amygdala in zebra finch, and expression of FoxP2 in cell corridors of different genetic profile. <i>Brain Structure and Function</i> , 2017, 222, 481-514.	1.2	36

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55	The efferent connections of the nucleus accumbens in the lizard <i>Gekko gecko</i> . <i>Anatomy and Embryology</i> , 1995, 191, 73-81.	1.5	35
56	Genetic identification of the central nucleus and other components of the central extended amygdala in chicken during development. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 90.	0.9	33
57	A Never-Ending Search for the Evolutionary Origin of the Neocortex: Rethinking the Homology Concept. <i>Brain, Behavior and Evolution</i> , 2013, 81, 150-153.	0.9	31
58	The telencephalon of the frog <i>Xenopus</i> based on calretinin immunostaining and gene expression patterns. <i>Brain Research Bulletin</i> , 2002, 57, 381-384.	1.4	30
59	Dynamic patterns of colocalization of calbindin, parvalbumin and GABA in subpopulations of mouse basolateral amygdalar cells during development. <i>Journal of Chemical Neuroanatomy</i> , 2008, 35, 67-76.	1.0	30
60	Expression of <i>cLhx6</i> and <i>cLhx7/8</i> suggests a pallido-pedunculo-preoptic origin for the lateral and medial parts of the avian bed nucleus of the stria terminalis. <i>Brain Research Bulletin</i> , 2008, 75, 299-304.	1.4	29
61	Nucleus accumbens in the lizard <i>Psammmodromus algirus</i> : chemoarchitecture and cortical afferent connections. , 1999, 405, 15-31.		27
62	Evolutionary and Developmental Contributions for Understanding the Organization of the Basal Ganglia. <i>Brain, Behavior and Evolution</i> , 2014, 83, 112-125.	0.9	27
63	Light and electron microscopic immunohistochemical study of dopaminergic terminals in the striatal portion of the pigeon basal ganglia using antisera against tyrosine hydroxylase and dopamine. , 1996, 369, 109-124.		26
64	Evolution of Pallial Areas and Networks Involved in Sociality: Comparison Between Mammals and Sauropsids. <i>Frontiers in Physiology</i> , 2019, 10, 894.	1.3	26
65	A novel telencephalonâ€œoptoâ€œhypothalamic morphogenetic domain coexpressing <i>Foxg1</i> and <i>Otp</i> produces most of the glutamatergic neurons of the medial extended amygdala. <i>Journal of Comparative Neurology</i> , 2021, 529, 2418-2449.	0.9	24
66	Dynamic expression of tyrosine hydroxylase mRNA and protein in neurons of the striatum and amygdala of mice, and experimental evidence of their multiple embryonic origin. <i>Brain Structure and Function</i> , 2014, 219, 751-776.	1.2	23
67	Immunohistochemical Localization of NMDA- and AMPA-Type Glutamate Receptor Subunits in the Basal Ganglia of Red-Eared Turtles. <i>Brain, Behavior and Evolution</i> , 1999, 54, 276-289.	0.9	22
68	Subpallial origin of part of the calbindin-positive neurons of the claustral complex and piriform cortex. <i>Brain Research Bulletin</i> , 2005, 66, 470-474.	1.4	22
69	A 3D MRIâ€œbased atlas of a lizard brain. <i>Journal of Comparative Neurology</i> , 2018, 526, 2511-2547.	0.9	22
70	Embryonic Origin of the <i>Islet1</i> and <i>Pax6</i> Neurons of the Chicken Central Extended Amygdala Using Cell Migration Assays and Relation to Different Neuropeptide-Containing Cells. <i>Brain, Behavior and Evolution</i> , 2015, 85, 139-169.	0.9	21
71	Patch/matrix patterns of gray matter differentiation in the telencephalon of chicken and mouse. <i>Brain Research Bulletin</i> , 2002, 57, 489-493.	1.4	20
72	Distribution of nitric oxide-producing neurons in the developing and adult mouse amygdalar basolateral complex. <i>Brain Research Bulletin</i> , 2005, 66, 465-469.	1.4	20

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73	Evolving Views on the Pallium. <i>Brain, Behavior and Evolution</i> , 2022, 96, 181-199.	0.9	19
74	An ultrastructural double-label immunohistochemical study of the enkephalineric input to dopaminergic neurons of the substantia nigra in pigeons. <i>Journal of Comparative Neurology</i> , 1995, 357, 408-432.	0.9	18
75	Distinct Subdivisions in the Transition Between Telencephalon and Hypothalamus Produce Otp and Sim1 Cells for the Extended Amygdala in Sauropsids. <i>Frontiers in Neuroanatomy</i> , 2022, 16, .	0.9	13
76	Evolution and Embryological Development of Forebrain. , 2009, , 1172-1192.		6
77	Developmental-Based Classification of Enkephalin and Somatostatin Containing Neurons of the Chicken Central Extended Amygdala. <i>Frontiers in Physiology</i> , 2022, 13, .	1.3	6
78	Neuronal typology of the thalamic area triangularis of <i>Gallotia galloti</i> (reptilia, sauria). <i>Journal of Morphology</i> , 1990, 205, 113-121.	0.6	4
79	Neuronal differentiation in the thalamic area triangularis of a lizard. <i>Journal of Morphology</i> , 1990, 205, 123-134.	0.6	2
80	Precise Mapping of Otp Expressing Cells Across Different Pallial Regions Throughout Ontogenesis Using Otp-Specific Reporter Transgenic Mice. <i>Frontiers in Neural Circuits</i> , 2022, 16, 831074.	1.4	2
81	Histogenetic divisions, developmental mechanisms, and cortical evolution. <i>Behavioral and Brain Sciences</i> , 2003, 26, 563-564.	0.4	1
82	Brainstem Motoneuron Cell Groups that die in Amyotrophic Lateral Sclerosis are Rich in the GLT-1 Glutamate Transporter. , 1996, , 69-76.		1
83	Introduction to the Proceedings of the Fourth European Conference on Comparative Neurobiology: Evolution and Development of Nervous Systems. <i>Brain Research Bulletin</i> , 2005, 66, 269.	1.4	0
84	2074v Alpha1-Beta1 and Alpha6-Beta1-Integrin. , 2008, , 1-1.		0