

Mario F Wullimann

List of Publications by Year in descending order

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71
papers

5,859
citations

81900

39
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106344

65
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73
all docs

73
docs citations

73
times ranked

3357
citing authors

#	ARTICLE	IF	CITATIONS
1	Teleostean and mammalian forebrains contrasted: Evidence from genes to behavior. <i>Journal of Comparative Neurology</i> , 2004, 475, 143-162.	1.6	453
2	The teleostean (zebrafish) dopaminergic system ascending to the subpallium (striatum) is located in the basal diencephalon (posterior tuberculum). <i>Brain Research</i> , 2001, 889, 316-330.	2.2	433
3	Axonal regrowth after spinal cord transection in adult zebrafish. <i>Journal of Comparative Neurology</i> , 1997, 377, 577-595.	1.6	359
4	Optimized Gal4 genetics for permanent gene expression mapping in zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13365-13370.	7.1	275
5	An Evolutionary Interpretation of Teleostean Forebrain Anatomy. <i>Brain, Behavior and Evolution</i> , 2009, 74, 30-42.	1.7	213
6	Development of the catecholaminergic system in the early zebrafish brain: an immunohistochemical study. <i>Developmental Brain Research</i> , 2002, 137, 89-100.	1.7	211
7	Connections of the ventral telencephalon (subpallium) in the zebrafish (<i>Danio rerio</i>). <i>Brain Research</i> , 2004, 1011, 206-220.	2.2	194
8	Connections of the ventral telencephalon and tyrosine hydroxylase distribution in the zebrafish brain (<i>Danio rerio</i>) lead to identification of an ascending dopaminergic system in a teleost. <i>Brain Research Bulletin</i> , 2002, 57, 385-387.	3.0	180
9	The adult central nervous cholinergic system of a neurogenetic model animal, the zebrafish <i>Danio rerio</i> . <i>Brain Research</i> , 2004, 1011, 156-169.	2.2	180
10	The teleostean forebrain: a comparative and developmental view based on early proliferation, Pax6 activity and catecholaminergic organization. <i>Brain Research Bulletin</i> , 2002, 57, 363-370.	3.0	158
11	Two tyrosine hydroxylase genes in vertebrates. <i>Molecular and Cellular Neurosciences</i> , 2010, 43, 394-402.	2.2	157
12	Connections of the Corpus Cerebelli in the Green Sunfish and the Common Goldfish: A Comparison of Perciform and Cypriniform Teleosts. <i>Brain, Behavior and Evolution</i> , 1988, 32, 293-316.	1.7	137
13	Molecular neuroanatomy and chemoarchitecture of the neurosecretory preoptic-hypothalamic area in zebrafish larvae. <i>Journal of Comparative Neurology</i> , 2014, 522, 1542-1564.	1.6	136
14	A phylotypic stage in vertebrate brain development: GABA cell patterns in zebrafish compared with mouse. <i>Journal of Comparative Neurology</i> , 2006, 494, 620-634.	1.6	135
15	Axonal projections originating from raphe serotonergic neurons in the developing and adult zebrafish, <i>Danio rerio</i> , using transgenics to visualize raphe-specific <i>pet1</i> expression. <i>Journal of Comparative Neurology</i> , 2009, 512, 158-182.	1.6	134
16	Early teleostean basal ganglia development visualized by Zebrafish <i>Dlx2a</i> , <i>Lhx6</i> , <i>Lhx7</i> , <i>Tbr2</i> (<i>eomesa</i>), and <i>GAD67</i> gene expression. <i>Journal of Comparative Neurology</i> , 2008, 507, 1245-1257.	1.6	133
17	Readiness of Zebrafish Brain Neurons to Regenerate a Spinal Axon Correlates with Differential Expression of Specific Cell Recognition Molecules. <i>Journal of Neuroscience</i> , 1998, 18, 5789-5803.	3.6	128
18	Anatomy of neurogenesis in the early zebrafish brain. <i>Developmental Brain Research</i> , 2003, 140, 137-155.	1.7	124

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19	Visual and electrosensory circuits of the diencephalon in mormyrids: An evolutionary perspective. <i>Journal of Comparative Neurology</i> , 1990, 297, 537-552.	1.6	116
20	BrdU-, neuroD (nrd)- and Hu-studies reveal unusual non-ventricular neurogenesis in the postembryonic zebrafish forebrain. <i>Mechanisms of Development</i> , 2002, 117, 123-135.	1.7	104
21	Detailed immunohistology of Pax6 protein and tyrosine hydroxylase in the early zebrafish brain suggests role of Pax6 gene in development of dopaminergic diencephalic neurons. <i>Developmental Brain Research</i> , 2001, 131, 173-191.	1.7	100
22	Differential expression of dopaminergic cell markers in the adult zebrafish forebrain. <i>Journal of Comparative Neurology</i> , 2011, 519, 576-598.	1.6	99
23	The zebrafish brain: a neuroanatomical comparison with the goldfish. <i>Anatomy and Embryology</i> , 1996, 194, 187-203.	1.5	88
24	The long adventurous journey of rhombic lip cells in jawed vertebrates: a comparative developmental analysis. <i>Frontiers in Neuroanatomy</i> , 2011, 5, 27.	1.7	86
25	Secondary neurogenesis and telencephalic organization in zebrafish and mice: a brief review. <i>Integrative Zoology</i> , 2009, 4, 123-133.	2.6	84
26	The Visual System in Teleost Fishes: Morphological Patterns and Trends. , 1988, , 515-552.		80
27	Afferent connections of the valvula cerebelli in two teleosts, the common goldfish and the green sunfish. <i>Journal of Comparative Neurology</i> , 1989, 289, 554-567.	1.6	80
28	The zebrafish cerebellar upper rhombic lip generates tegmental hindbrain nuclei by long-distance migration in an evolutionary conserved manner. <i>Journal of Comparative Neurology</i> , 2010, 518, 2794-2817.	1.6	79
29	Some forebrain connections of the gustatory system in the goldfish <i>Carassius Auratus</i> visualized by separate Dil application to the hypothalamic inferior lobe and the torus lateralis. , 1998, 394, 152-170.		75
30	Identification and morphogenesis of the eminentia thalami in the zebrafish. <i>Journal of Comparative Neurology</i> , 2004, 471, 37-48.	1.6	70
31	Secondary neurogenesis in the brain of the African clawed frog, <i>Xenopus laevis</i> , as revealed by PCNA, Δ , Neurogenin-related, and NeuroD expression. <i>Journal of Comparative Neurology</i> , 2005, 489, 387-402.	1.6	61
32	Expression domains of neuroD (nrd) in the early postembryonic zebrafish brain. <i>Brain Research Bulletin</i> , 2002, 57, 377-379.	3.0	58
33	Possible multiple evolution of indirect telencephalo-cerebellar pathways in teleosts: studies in <i>Carassius auratus</i> and <i>Pantodon buchholzi</i> . <i>Cell and Tissue Research</i> , 1993, 274, 447-455.	2.9	54
34	Hypothalamic inferior lobe and lateral torus connections in a percomorph teleost, the red cichlid (<i>Hemichromis lifalili</i>). <i>Journal of Comparative Neurology</i> , 2002, 449, 43-64.	1.6	53
35	Identification of accessory olfactory system and medial amygdala in the zebrafish. <i>Scientific Reports</i> , 2017, 7, 44295.	3.3	53
36	The tertiary gustatory center in sunfishes is not nucleus glomerulosus. <i>Neuroscience Letters</i> , 1988, 86, 6-10.	2.1	52

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37	Comparative Cytoarchitectonic Analysis of Some Visual Pretectal Nuclei in Teleosts (Part 1 of 2). <i>Brain, Behavior and Evolution</i> , 1991, 38, 92-104.	1.7	52
38	Phylogenic expression of the bHLH genes <i>Neurogenin2</i> , <i>Neurod</i> , and <i>Mash1</i> in the mouse embryonic forebrain. <i>Journal of Comparative Neurology</i> , 2010, 518, 851-871.	1.6	52
39	Crypt cells are involved in kin recognition in larval zebrafish. <i>Scientific Reports</i> , 2016, 6, 24590.	3.3	52
40	Phylogeny of Putative Cholinergic Visual Pathways through the Pretectum to the Hypothalamus in Teleost Fish. <i>Brain, Behavior and Evolution</i> , 1990, 36, 14-29.	1.7	50
41	The visually related posterior prepectal nucleus in the non-percomorph teleost <i>Osteoglossum bicirrhosum</i> projects to the hypothalamus: A Dil study. <i>Journal of Comparative Neurology</i> , 1991, 312, 415-435.	1.6	46
42	Expression of <i>Zash-1a</i> in the postembryonic zebrafish brain allows comparison to mouse <i>Mash1</i> domains. <i>Gene Expression Patterns</i> , 2002, 1, 187-192.	0.8	43
43	Ancestry of basal ganglia circuits: New evidence in teleosts. <i>Journal of Comparative Neurology</i> , 2014, 522, 2013-2018.	1.6	36
44	Descending Telencephalic Information Reaches Longitudinal Torus and Cerebellum via the Dorsal Preglomerular Nucleus in the Teleost Fish, <i>Pantodon buchholzi</i> : A Case of Neural Preaptation?. <i>Brain, Behavior and Evolution</i> , 1994, 44, 338-352.	1.7	33
45	The Brain of the Archerfish <i>Toxotes chatareus</i> : A Nissl-Based Neuroanatomical Atlas and Catecholaminergic/Cholinergic Systems. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 106.	1.7	28
46	Anatomy and function of retinorecipient arborization fields in zebrafish. <i>Journal of Comparative Neurology</i> , 2021, 529, 3454-3476.	1.6	28
47	A direct cerebello-telencephalic projection in an electrosensory mormyrid fish. <i>Brain Research</i> , 1990, 520, 354-357.	2.2	27
48	<i>Sonic hedgehog</i> expression in zebrafish forebrain identifies the teleostean pallidal signaling center and shows preglomerular complex and posterior tubercular dopamine cells to arise from <i>shh</i> cells. <i>Journal of Comparative Neurology</i> , 2020, 528, 1321-1348.	1.6	25
49	Should we redefine the classic lateral pallium?. <i>Journal of Comparative Neurology</i> , 2017, 525, 1509-1513.	1.6	24
50	Combinatorial analysis of calcium-binding proteins in larval and adult zebrafish primary olfactory system identifies differential olfactory bulb glomerular projection fields. <i>Brain Structure and Function</i> , 2015, 220, 1951-1970.	2.3	22
51	Adult <i>islet1</i> Expression Outlines Ventralized Derivatives Along Zebrafish Neuraxis. <i>Frontiers in Neuroanatomy</i> , 2019, 13, 19.	1.7	22
52	Neural pathways of olfactory kin imprinting and kin recognition in zebrafish. <i>Cell and Tissue Research</i> , 2021, 383, 273-287.	2.9	17
53	Correlated basal expression of immediate early gene <i>egr1</i> and tyrosine hydroxylase in zebrafish brain and downregulation in olfactory bulb after transitory olfactory deprivation. <i>Journal of Chemical Neuroanatomy</i> , 2012, 46, 51-66.	2.1	16
54	Eppur Si Muove: Evidence for an External Granular Layer and Possibly Transit Amplification in the Teleostean Cerebellum. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 49.	1.7	16

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55	Basal Ganglia: Insights into Origins from Lamprey Brains. <i>Current Biology</i> , 2011, 21, R497-R500.	3.9	15
56	Evolution of the Posterior Tuberculum and Preglomerular Nuclear Complex. , 2009, , 1404-1413.		15
57	Is the nucleus corticalis of teleosts a new cholinergic central nervous system for vertebrates?. <i>NeuroReport</i> , 1992, 3, 33-35.	1.2	14
58	Neural origins of basal diencephalon in teleost fishes: Radial versus tangential migration. <i>Journal of Morphology</i> , 2020, 281, 1133-1141.	1.2	14
59	The Mormyrid Optic Tectum Is a Topographic Interface for Active Electrolocation and Visual Sensing. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 79.	1.7	13
60	The Central Nervous Organization of the Lateral Line System. <i>Springer Handbook of Auditory Research</i> , 2013, , 195-251.	0.7	11
61	Major patterns of visual brain organization in teleosts and their relation to prehistoric events and the paleontological record. <i>Paleobiology</i> , 1997, 23, 101-114.	2.0	10
62	Serotonin systems in three socially communicating teleost species, the grunting toadfish (<i>Allenbatrachus grunniens</i>), a South American marine catfish (<i>Ariopsis seemanni</i>), and the upside-down catfish (<i>Synodontis nigriventris</i>). <i>Journal of Chemical Neuroanatomy</i> , 2020, 104, 101708.	2.1	9
63	A double-label study of efferent projections from the Edinger-Westphal nucleus in goldfish and kelp bass. <i>Neuroscience Letters</i> , 1988, 93, 121-126.	2.1	8
64	The valvula cerebelli of the spiny eel, <i>Macrogathus aculeatus</i> , receives primary lateral-line afferents from the rostrum of the upper jaw. <i>Cell and Tissue Research</i> , 1991, 266, 285-293.	2.9	8
65	Histochemical, Connectional and Cytoarchitectonic Evidence for a Secondary Reduction of the Pretectum in the European Eel, <i>Anguilla anguilla</i> : A Case of Parallel Evolution. <i>Brain, Behavior and Evolution</i> , 1991, 38, 290-301.	1.7	7
66	Names Matter: Commentary on Luis Puelles' Article. <i>Brain, Behavior and Evolution</i> , 2017, 90, 190-190.	1.7	4
67	A versatile transcription factor: Multiple roles of <i>orthopedia</i> (<i>otpa</i>) beyond its restricted localization in dopaminergic systems of developing and adult zebrafish (<i>Danio rerio</i>) brains. <i>Journal of Comparative Neurology</i> , 2022, 530, 2537-2561.	1.6	3
68	Introduction to the Proceedings of the Fifth European Conference on Comparative Neurobiology: Evolution and the generation of novelties in the nervous system. <i>Brain Research Bulletin</i> , 2008, 75, 189-190.	3.0	0
69	Vertebrate Sensory Systems and Brains: From Genes to Behavior. <i>Brain, Behavior and Evolution</i> , 2017, 90, 97-97.	1.7	0
70	Cranial Nerves of the Coelacanth, <i>Latimeria chalumnae</i> [Osteichthyes: Sarcopterygii: Actinistia], and Comparisons with Other Craniata. R. Glenn Northcutt , William E. Bemis. <i>Quarterly Review of Biology</i> , 1994, 69, 555-556.	0.1	0
71	Interpretation of Data—How to Use the Atlas. , 2016, , 159-204.		0