

Luca Bonfanti

List of Publications by Year in descending order

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84
papers

5,000
citations

117625

34
h-index

91884

69
g-index

85
all docs

85
docs citations

85
times ranked

6842
citing authors

#	ARTICLE	IF	CITATIONS
1	PSA-NCAM in mammalian structural plasticity and neurogenesis. <i>Progress in Neurobiology</i> , 2006, 80, 129-164.	5.7	396
2	Multipotent Neural Stem Cells Reside into the Rostral Extension and Olfactory Bulb of Adult Rodents. <i>Journal of Neuroscience</i> , 2002, 22, 437-445.	3.6	358
3	Mapping of the distribution of polysialylated neural cell adhesion molecule throughout the central nervous system of the adult rat: An immunohistochemical study. <i>Neuroscience</i> , 1992, 49, 419-436.	2.3	302
4	Neural Stem Cells. <i>Circulation Research</i> , 2003, 92, 598-608.	4.5	232
5	Glial Tubes in the Rostral Migratory Stream of the Adult Rat. <i>Brain Research Bulletin</i> , 1997, 42, 9-21.	3.0	230
6	Cell cycle and lineage progression of neural progenitors in the ventricular-subventricular zones of adult mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1045-54.	7.1	212
7	Expression of polysialylated neural cell adhesion molecule by proliferating cells in the subependymal layer of the adult rat, in its rostral extension and in the olfactory bulb. <i>Neuroscience</i> , 1994, 62, 291-305.	2.3	209
8	Brain Regeneration in Physiology and Pathology: The Immune Signature Driving Therapeutic Plasticity of Neural Stem Cells. <i>Physiological Reviews</i> , 2011, 91, 1281-1304.	28.8	199
9	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, 221-243.	3.0	195
10	Adult neurogenesis in mammals – a theme with many variations. <i>European Journal of Neuroscience</i> , 2011, 34, 930-950.	2.6	166
11	Chain formation and glial tube assembly in the shift from neonatal to adult subventricular zone of the rodent forebrain. <i>Journal of Comparative Neurology</i> , 2005, 487, 407-427.	1.6	154
12	Insulin receptor substrate-1 (IRS-1) distribution in the rat central nervous system. <i>Journal of Neuroscience</i> , 1994, 14, 6412-6422.	3.6	133
13	Genesis of Neuronal and Glial Progenitors in the Cerebellar Cortex of Peripuberal and Adult Rabbits. <i>PLoS ONE</i> , 2008, 3, e2366.	2.5	108
14	DCX and PSA-NCAM Expression Identifies a Population of Neurons Preferentially Distributed in Associative Areas of Different Pallial Derivatives and Vertebrate Species. <i>Cerebral Cortex</i> , 2009, 19, 1028-1041.	2.9	107
15	Shc signaling in differentiating neural progenitor cells. <i>Nature Neuroscience</i> , 2001, 4, 579-586.	14.8	103
16	Radial glial origin of the adult neural stem cells in the subventricular zone. <i>Progress in Neurobiology</i> , 2007, 83, 24-36.	5.7	100
17	Noncanonical Sites of Adult Neurogenesis in the Mammalian Brain. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a018846.	5.5	96
18	Glia-independent chains of neuroblasts through the subcortical parenchyma of the adult rabbit brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13036-13041.	7.1	93

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19	Newly-generated cells from the rostral migratory stream in the accessory olfactory bulb of the adult rat. <i>Neuroscience</i> , 1997, 81, 489-502.	2.3	79
20	New scenarios for neuronal structural plasticity in non-neurogenic brain parenchyma: The case of cortical layer II immature neurons. <i>Progress in Neurobiology</i> , 2012, 98, 1-15.	5.7	78
21	Radial Glia-Like Cells in the Supraoptic Nucleus of the Adult Rat. <i>Journal of Neuroendocrinology</i> , 1993, 5, 1-5.	2.6	76
22	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, 155-183.	4.0	75
23	A neuroprotective phase precedes striatal degeneration upon nucleolar stress. <i>Cell Death and Differentiation</i> , 2013, 20, 1455-1464.	11.2	68
24	Non-Newly Generated, "Immature" Neurons in the Sheep Brain Are Not Restricted to Cerebral Cortex. <i>Journal of Neuroscience</i> , 2018, 38, 826-842.	3.6	60
25	A subpial, transitory germinal zone forms chains of neuronal precursors in the rabbit cerebellum. <i>Developmental Biology</i> , 2006, 294, 168-180.	2.0	59
26	Cellular composition and cytoarchitecture of the rabbit subventricular zone and its extensions in the forebrain. <i>Journal of Comparative Neurology</i> , 2006, 498, 491-507.	1.6	59
27	Polysialic acid and activity-dependent synapse remodeling. <i>Cell Adhesion and Migration</i> , 2009, 3, 43-50.	2.7	54
28	Brain Structural Plasticity: From Adult Neurogenesis to Immature Neurons. <i>Frontiers in Neuroscience</i> , 2020, 14, 75.	2.8	53
29	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.	1.6	46
30	From Hydra Regeneration to Human Brain Structural Plasticity: A Long Trip through Narrowing Roads. <i>Scientific World Journal</i> , The, 2011, 11, 1270-1299.	2.1	46
31	Using balance training to improve the performance of youth basketball players. <i>Sport Sciences for Health</i> , 2013, 9, 37-42.	1.3	45
32	Adult mammalian neurogenesis and the New Zealand white rabbit. <i>Veterinary Journal</i> , 2008, 175, 310-331.	1.7	44
33	Adhesion molecules and structural plasticity of the adult hypothalamo-neurohypophysial system. <i>Psychoneuroendocrinology</i> , 1994, 19, 455-462.	2.7	43
34	Adult Neurogenesis in Mammals: Variations and Confusions. <i>Brain, Behavior and Evolution</i> , 2016, 87, 205-221.	1.7	43
35	Phylogenetic variation in cortical layer II immature neuron reservoir of mammals. <i>ELife</i> , 2020, 9, .	6.0	37
36	Effects of developmental age, brain region, and time in culture on long-term proliferation and multipotency of neural stem cell populations. <i>Journal of Comparative Neurology</i> , 2009, 517, 333-349.	1.6	35

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37	Newly Generated and Non-Newly Generated “Immature” Neurons in the Mammalian Brain: A Possible Reservoir of Young Cells to Prevent Brain Aging and Disease?. <i>Journal of Clinical Medicine</i> , 2019, 8, 685.	2.4	35
38	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, 619-623.	2.3	34
39	The galactocerebrosidase enzyme contributes to maintain a functional neurogenic niche during early post-natal CNS development. <i>Human Molecular Genetics</i> , 2012, 21, 4732-4750.	2.9	33
40	Quiescent neuronal progenitors are activated in the juvenile guinea pig lateral striatum and give rise to transient neurons. <i>Development (Cambridge)</i> , 2014, 141, 4065-4075.	2.5	30
41	Humans and Dolphins: Decline and Fall of Adult Neurogenesis. <i>Frontiers in Neuroscience</i> , 2018, 12, 497.	2.8	30
42	The cytosolic phosphoprotein stathmin is expressed in the olfactory system of the adult rat. <i>NeuroReport</i> , 1997, 8, 2825-2829.	1.2	26
43	Adult Neurogenesis 50 Years Later: Limits and Opportunities in Mammals. <i>Frontiers in Neuroscience</i> , 2016, 10, 44.	2.8	26
44	Comparative expression profiles of ShcB and ShcC phosphotyrosine adapter molecules in the adult brain. <i>Neuroscience</i> , 2005, 133, 105-115.	2.3	23
45	Brain Plasticity in Humans and Model Systems: Advances, Challenges, and Future Directions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9358.	4.1	23
46	The PSA-NCAM-Positive “Immature” Neurons: An Old Discovery Providing New Vistas on Brain Structural Plasticity. <i>Cells</i> , 2021, 10, 2542.	4.1	22
47	Do large brains of long-living mammals prefer non-newly generated, immature neurons?. <i>Neural Regeneration Research</i> , 2018, 13, 633.	3.0	21
48	Non-neurogenic SVZ-like niche in dolphins, mammals devoid of olfaction. <i>Brain Structure and Function</i> , 2017, 222, 2625-2639.	2.3	19
49	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, 154-166.	1.0	16
50	Cell Migration in the Rostral Migratory Stream. <i>Chemical Senses</i> , 2002, 27, 581-582.	2.0	16
51	Neuronal-glia interactions in central nervous system neurogenesis: the neural stem cell perspective. <i>Neuron Glia Biology</i> , 2007, 3, 309-323.	1.6	16
52	Major unsolved points in adult neurogenesis: doors open on a translational future?. <i>Frontiers in Neuroscience</i> , 2014, 8, 154.	2.8	16
53	Towards a comparative understanding of adult neurogenesis. <i>European Journal of Neuroscience</i> , 2011, 34, 845-846.	2.6	15
54	The (Real) Neurogenic/Gliogenic Potential of the Postnatal and Adult Brain Parenchyma. <i>ISRN Neuroscience</i> , 2013, 2013, 1-14.	1.5	15

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55	Osteogenic and Neurogenic Stem Cells in Their Own Place: Unraveling Differences and Similarities Between Niches. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 455.	3.7	15
56	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, 527-542.	2.3	14
57	Therapeutic potential of neural stem cells: greater in people's perception than in their brains?. <i>Frontiers in Neuroscience</i> , 2014, 8, 79.	2.8	14
58	Forebrain neuroanatomy of the neonatal and juvenile dolphin (<i>T. truncatus</i> and <i>S. coeruleoalba</i>). <i>Frontiers in Neuroanatomy</i> , 2015, 9, 140.	1.7	14
59	New neurons from old beliefs in the adult piriform cortex? A Commentary on: "Occurrence of new neurons in the piriform cortex". <i>Frontiers in Neuroanatomy</i> , 2015, 9, 62.	1.7	13
60	Brain Plasticity in Mammals: An Example for the Role of Comparative Medicine in the Neurosciences. <i>Frontiers in Veterinary Science</i> , 2018, 5, 274.	2.2	12
61	Cellular and Molecular Characterization of Multipolar Map5-Expressing Cells: A Subset of Newly Generated, Stage-Specific Parenchymal Cells in the Mammalian Central Nervous System. <i>PLoS ONE</i> , 2013, 8, e63258.	2.5	11
62	Clusters of DCX+ cells "trapped" in the subcortical white matter of early postnatal <i>Cetartiodactyla</i> (<i>Tursiops truncatus</i> , <i>Stenella coeruleoalba</i> and <i>Ovis aries</i>). <i>Brain Structure and Function</i> , 2018, 223, 3613-3632.	2.3	11
63	Putative factors implicated in the structural plasticity of the hypothalamo-neurohypophysial system. <i>Regulatory Peptides</i> , 1993, 45, 165-170.	1.9	9
64	Neural-specific inactivation of ShcA functions results in anatomical disorganization of subventricular zone neural stem cell niche in the adult brain. <i>Neuroscience</i> , 2010, 168, 314-322.	2.3	9
65	Adult neurogenesis 20 years later: physiological function vs. brain repair. <i>Frontiers in Neuroscience</i> , 2015, 9, 71.	2.8	9
66	Heterogeneous Oil Transesterification in a Single-Phase Liquid Mixture using a Co-Solvent for Improved Biofuels Production. <i>Energy Technology</i> , 2015, 3, 1170-1173.	3.8	8
67	Editorial: Adult Neurogenesis: Beyond Rats and Mice. <i>Frontiers in Neuroscience</i> , 2018, 12, 904.	2.8	8
68	Searching for alternatives to brain regeneration. <i>Neural Regeneration Research</i> , 2021, 16, 2198.	3.0	7
69	How Widespread Are the "Young" Neurons of the Mammalian Brain?. <i>Frontiers in Neuroscience</i> , 2022, 16, .	2.8	7
70	Public Engagement and Neurology: An Update. <i>Brain Sciences</i> , 2021, 11, 429.	2.3	5
71	Brain Waste: The Neglect of Animal Brains. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 573934.	1.7	5
72	Molecular and functional heterogeneity in dorsal and ventral oligodendrocyte progenitor cells of the mouse forebrain in response to DNA damage. <i>Nature Communications</i> , 2022, 13, 2331.	12.8	5

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73	Aminoacyl-histidine dipeptides in the glial cells of the adult rabbit forebrain†,1. Peptides, 2000, 21, 1717-1724.	2.4	3
74	Immuno-electromicroscopic approach for the study of neural stem cell niches. Veterinary Research Communications, 2008, 32, 107-109.	1.6	3
75	Culturing conditions remarkably affect viability and organization of mouse subventricular zone in ex vivo cultured forebrain slices. Journal of Neuroscience Methods, 2011, 197, 65-81.	2.5	3
76	The Missing Chain. Frontiers in Neuroscience, 2012, 6, 5.	2.8	2
77	Adult structural plasticity and neurogenesis in the mammalian olfactory system. Rendiconti Lincei, 2002, 13, 145-179.	2.2	1
78	Tangential Chains of Neuroblasts in the Subpial Layer of the Adult Rabbit Cerebellum. Veterinary Research Communications, 2005, 29, 161-163.	1.6	1
79	The Rabbit Subventricular Zone (SVZ): An Ultrastructural and Immunocytochemical Study. Veterinary Research Communications, 2006, 30, 163-165.	1.6	1
80	Neuronal and Brain Maturation. International Journal of Molecular Sciences, 2022, 23, 4400.	4.1	1
81	Neurogenesis Outside the Central Nervous System (An Overview). , 2012, , 271-280.		0
82	Parenchymal Neuro-Glio-Genesis Versus Germinal Layer- Derived Neurogenesis: Two Faces of Central Nervous System Structural Plasticity. , 2013, , .		0
83	Neurogenesis in the Adult Rabbit: From Olfactory System to Cerebellum. , 2011, , 319-336.		0
84	Laminar Organization and Projections of the Motor Cortex of the Sheep. FASEB Journal, 2019, 33, 768.5.	0.5	0