

Filippo Del Bene

List of Publications by Citations

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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.

64

papers

5,534

citations

28

h-index

74

g-index

79

ext. papers

6,781

ext. citations

11.1

avg, IF

5.67

L-index

#	Paper	IF	Citations
64	Optical sectioning deep inside live embryos by selective plane illumination microscopy. <i>Science</i> , 2004 , 305, 1007-9	33.3	1531
63	Highly efficient CRISPR/Cas9-mediated knock-in in zebrafish by homology-independent DNA repair. <i>Genome Research</i> , 2014 , 24, 142-53	9.7	436
62	Optogenetic dissection of a behavioural module in the vertebrate spinal cord. <i>Nature</i> , 2009 , 461, 407-10	50.4	324
61	Remote control of neuronal activity with a light-gated glutamate receptor. <i>Neuron</i> , 2007 , 54, 535-45	13.9	281
60	Regulation of neurogenesis by interkinetic nuclear migration through an apical-basal notch gradient. <i>Cell</i> , 2008 , 134, 1055-65	56.2	249
59	Direct interaction of geminin and Six3 in eye development. <i>Nature</i> , 2004 , 427, 745-9	50.4	209
58	Optical control of zebrafish behavior with halorhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17968-73	11.5	201
57	Filtering of visual information in the tectum by an identified neural circuit. <i>Science</i> , 2010 , 330, 669-73	33.3	186
56	Neural Circuits Underlying Visually Evoked Escapes in Larval Zebrafish. <i>Neuron</i> , 2016 , 89, 613-28	13.9	185
55	Differentiation of the vertebrate retina is coordinated by an FGF signaling center. <i>Developmental Cell</i> , 2005 , 8, 565-74	10.2	143
54	Live Tracking of Inter-organ Communication by Endogenous Exosomes In Vivo. <i>Developmental Cell</i> , 2019 , 48, 573-589.e4	10.2	136
53	Optogenetic localization and genetic perturbation of saccade-generating neurons in zebrafish. <i>Journal of Neuroscience</i> , 2010 , 30, 7111-20	6.6	133
52	CRISPR/Cas9 and TALEN-mediated knock-in approaches in zebrafish. <i>Methods</i> , 2014 , 69, 142-50	4.6	130
51	Emergence of patterned activity in the developing zebrafish spinal cord. <i>Current Biology</i> , 2012 , 22, 93-102	23	123
50	A systematic genome-wide screen for mutations affecting organogenesis in Medaka, <i>Oryzias latipes</i> . <i>Mechanisms of Development</i> , 2004 , 121, 647-58	1.7	115
49	CSF-contacting neurons regulate locomotion by relaying mechanical stimuli to spinal circuits. <i>Nature Communications</i> , 2016 , 7, 10866	17.4	93
48	Interkinetic nuclear migration: cell cycle on the move. <i>EMBO Journal</i> , 2011 , 30, 2510-2510	13	78

47	Genome editing using CRISPR/Cas9-based knock-in approaches in zebrafish. <i>Methods</i> , 2017 , 121-122, 77-85	4.6	71
46	Investigation of spinal cerebrospinal fluid-contacting neurons expressing PKD2L1: evidence for a conserved system from fish to primates. <i>Frontiers in Neuroanatomy</i> , 2014 , 8, 26	3.6	71
45	Optogenetics: a new enlightenment age for zebrafish neurobiology. <i>Developmental Neurobiology</i> , 2012 , 72, 404-14	3.2	64
44	State-Dependent Modulation of Locomotion by GABAergic Spinal Sensory Neurons. <i>Current Biology</i> , 2015 , 25, 3035-47	6.3	59
43	Cell cycle control by homeobox genes in development and disease. <i>Seminars in Cell and Developmental Biology</i> , 2005 , 16, 449-60	7.5	54
42	Hydrogen peroxide (H ₂ O ₂) controls axon pathfinding during zebrafish development. <i>Developmental Biology</i> , 2016 , 414, 133-41	3.1	51
41	CRISPR/Cas9-mediated conversion of eGFP- into Gal4-transgenic lines in zebrafish. <i>Nature Protocols</i> , 2014 , 9, 2823-40	18.8	46
40	2C-Cas9: a versatile tool for clonal analysis of gene function. <i>Genome Research</i> , 2016 , 26, 681-92	9.7	38
39	In vivo validation of a computationally predicted conserved Ath5 target gene set. <i>PLoS Genetics</i> , 2007 , 3, 1661-71	6	38
38	Transparent <i>Danio rerio</i> as a genetically tractable vertebrate brain model. <i>Nature Methods</i> , 2018 , 15, 977-983	21.6	37
37	Mutations affecting liver development and function in Medaka, <i>Oryzias latipes</i> , screened by multiple criteria. <i>Mechanisms of Development</i> , 2004 , 121, 791-802	1.7	32
36	Let there be light: zebrafish neurobiology and the optogenetic revolution. <i>Reviews in the Neurosciences</i> , 2011 , 22, 121-30	4.7	28
35	A light-gated potassium channel for sustained neuronal inhibition. <i>Nature Methods</i> , 2018 , 15, 969-976	21.6	27
34	The dual developmental origin of spinal cerebrospinal fluid-contacting neurons gives rise to distinct functional subtypes. <i>Scientific Reports</i> , 2017 , 7, 719	4.9	26
33	Angiotropism and extravascular migratory metastasis in cutaneous and uveal melanoma progression in a zebrafish model. <i>Scientific Reports</i> , 2018 , 8, 10448	4.9	24
32	An Attractive Reelin Gradient Establishes Synaptic Lamination in the Vertebrate Visual System. <i>Neuron</i> , 2018 , 97, 1049-1062.e6	13.9	22
31	Deletion of a kinesin I motor unmasks a mechanism of homeostatic branching control by neurotrophin-3. <i>ELife</i> , 2015 , 4,	8.9	22
30	Redox Signaling via Lipid Peroxidation Regulates Retinal Progenitor Cell Differentiation. <i>Developmental Cell</i> , 2019 , 50, 73-89.e6	10.2	20

29	Interkinetic nuclear migration: cell cycle on the move. <i>EMBO Journal</i> , 2011 , 30, 1676-7	13	20
28	Asymmetric inheritance of the apical domain and self-renewal of retinal ganglion cell progenitors depend on Anillin function. <i>Development (Cambridge)</i> , 2015 , 142, 832-9	6.6	19
27	Mutations affecting retina development in Medaka. <i>Mechanisms of Development</i> , 2004 , 121, 703-14	1.7	19
26	Characterization of the calcium binding protein family in zebrafish. <i>PLoS ONE</i> , 2013 , 8, e53299	3.7	17
25	An interhemispheric neural circuit allowing binocular integration in the optic tectum. <i>Nature Communications</i> , 2019 , 10, 5471	17.4	17
24	Direction selectivity in the visual system of the zebrafish larva. <i>Frontiers in Neural Circuits</i> , 2013 , 7, 111	3.5	16
23	Genetic dissection of the formation of the forebrain in Medaka, <i>Oryzias latipes</i> . <i>Mechanisms of Development</i> , 2004 , 121, 673-85	1.7	15
22	Mutations affecting somite formation in the Medaka (<i>Oryzias latipes</i>). <i>Mechanisms of Development</i> , 2004 , 121, 659-71	1.7	14
21	Dynactin1 depletion leads to neuromuscular synapse instability and functional abnormalities. <i>Molecular Neurodegeneration</i> , 2019 , 14, 27	19	12
20	Neuronal Ndr4 Is Essential for Nodes of Ranvier Organization in Zebrafish. <i>PLoS Genetics</i> , 2016 , 12, e1006459	6	12
19	CRISPR/Cas9-Mediated Knockin and Knockout in Zebrafish. <i>Research and Perspectives in Neurosciences</i> , 2017 , 41-49		11
18	Precise base editing for the study of developmental signaling and human pathologies in zebrafish. <i>ELife</i> , 2021 , 10,	8.9	11
17	Role of Reelin in cell positioning in the cerebellum and the cerebellum-like structure in zebrafish. <i>Developmental Biology</i> , 2019 , 455, 393-408	3.1	9
16	Reelin Signaling Controls the Preference for Social Novelty in Zebrafish. <i>Frontiers in Behavioral Neuroscience</i> , 2019 , 13, 214	3.5	9
15	Zebrafish as a Model for the Study of Live Processive Transport in Neurons. <i>Frontiers in Cell and Developmental Biology</i> , 2019 , 7, 17	5.7	7
14	Elmo1 function, linked to Rac1 activity, regulates peripheral neuronal numbers and myelination in zebrafish. <i>Cellular and Molecular Life Sciences</i> , 2020 , 77, 161-177	10.3	6
13	Bilateral visual projections exist in non-teleost bony fish and predate the emergence of tetrapods. <i>Science</i> , 2021 , 372, 150-156	33.3	5
12	Clonal analysis of gene loss of function and tissue-specific gene deletion in zebrafish via CRISPR/Cas9 technology. <i>Methods in Cell Biology</i> , 2016 , 135, 171-88	1.8	5

11	Live tracking of inter-organ communication by endogenous exosomes in vivo		4
10	Reelin functions beyond neuronal migration: from synaptogenesis to network activity modulation. <i>Current Opinion in Neurobiology</i> , 2021 , 66, 135-143	7.6	4
9	FIGNL1 associates with KIF1B and BICD1 to restrict dynein transport velocity during axon navigation. <i>Journal of Cell Biology</i> , 2019 , 218, 3290-3306	7.3	3
8	Homology-Independent Integration of Plasmid DNA into the Zebrafish Genome. <i>Methods in Molecular Biology</i> , 2016 , 1451, 31-51	1.4	3
7	Bi-allelic variants in IPO8 cause a connective tissue disorder associated with cardiovascular defects, skeletal abnormalities, and immune dysregulation. <i>American Journal of Human Genetics</i> , 2021 , 108, 1126-1137	11.3	3
6	Base Editing-Mediated Dissection of the -200 Region of the β Globin Promoters to Induce Fetal Hemoglobin and Rescue Sickle Cell Disease and β Thalassemia. <i>Blood</i> , 2021 , 138, 562-562	2.2	1
5	Disease modeling by efficient genome editing using a near PAM-less base editor in vivo		1
4	<i>Danio rerio</i> , a tankful of new opportunities 2022 , 409-418		1
3	Evolutionary divergence of locomotion in two related vertebrate species.. <i>Cell Reports</i> , 2022 , 38, 110585	10.6	0
2	Eye Development440-485		
1	Expression of a Barhl1a reporter in subsets of retinal ganglion cells and commissural neurons of the developing zebrafish brain. <i>Scientific Reports</i> , 2020 , 10, 8814	4.9	