Francesco Argenton

List of Publications by Year
in descending order

106 papers	5,210 citations	81900 39 h-index	98798 67 g-index
114 all docs	114 docs citations	114 times ranked	7871 citing authors

#	Article	IF	Citations
1	FAM/USP9x, a Deubiquitinating Enzyme Essential for TGFÎ² Signaling, Controls Smad4 Monoubiquitination. Cell, 2009, 136, 123-135.	28.9	442
2	In vivo Wnt signaling tracing through a transgenic biosensor fish reveals novel activity domains. Developmental Biology, 2012, 366, 327-340.	2.0	227
3	Pancreas Development in Zebrafish: Early Dispersed Appearance of Endocrine Hormone Expressing Cells and Their Convergence to Form the Definitive Islet. Developmental Biology, 2001, 230, 189-203.	2.0	201
4	Long-range gene regulation links genomic type 2 diabetes and obesity risk regions to <i>HHEX</i> , <i>SOX4</i> , and <i>IRX3</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 775-780.	7.1	189
5	Ca²⁺ binding to Fâ€ATP synthase Î² subunit triggers the mitochondrial permeability transition. EMBO Reports, 2017, 18, 1065-1076.	4.5	170
6	Wnt/Î²-Catenin Signaling Defines Organizing Centers that Orchestrate Growth and Differentiation of the Regenerating Zebrafish Caudal Fin. Cell Reports, 2014, 6, 467-481.	6.4	163
7	Molecular and functional characterisation of the zebrafish (Danio rerio) PEPT1-type peptide transporter1. FEBS Letters, 2003, 549, 115-122.	2.8	147
8	BMP signalling regulates anteroposterior endoderm patterning in zebrafish. Mechanisms of Development, 2002, 118, 29-37.	1.7	146
9	Early appearance of pancreatic hormone-expressing cells in the zebrafish embryo. Mechanisms of Development, 1999, 87, 217-221.	1.7	136
10	Evolutionary conserved role of ptf1a in the specification of exocrine pancreatic fates. Developmental Biology, 2004, 268, 174-184.	2.0	101
11	Developmental and Tumor Angiogenesis Requires the Mitochondria-Shaping Protein Opa1. Cell Metabolism, 2020, 31, 987-1003.e8.	16.2	101
12	Distinct delta and jagged genes control sequential segregation of pancreatic cell types from precursor pools in zebrafish. Developmental Biology, 2007, 301, 192-204.	2.0	95
13	Early differences in epithalamic leftâ€"right asymmetry influence lateralization and personality of adult zebrafish. Behavioural Brain Research, 2010, 206, 208-215.	2.2	92
14	Wnt Signaling Regulates Postembryonic Hypothalamic Progenitor Differentiation. Developmental Cell, 2012, 23, 624-636.	7.0	90
15	Wnt activation promotes neuronal differentiation of Glioblastoma. Cell Death and Disease, 2013, 4, e500-e500.	6.3	89
16	Development and specification of cerebellar stem and progenitor cells in zebrafish: from embryo to adult. Neural Development, 2013, 8, 9.	2.4	82
17	Function and regulation of zebrafish nkx2.2a during development of pancreatic islet and ducts. Developmental Biology, 2007, 304, 875-890.	2.0	81
18	Zebrafish pancreas development. Molecular and Cellular Endocrinology, 2009, 312, 24-30.	3.2	79

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19	Mitochondrial DNA metabolism in early development of zebrafish (Danio rerio). Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1002-1011.	1.0	78
20	sox4b is a key player of pancreatic Î± cell differentiation in zebrafish. Developmental Biology, 2005, 285, 211-223.	2.0	73
21	Diverse Chemical Scaffolds Support Direct Inhibition of the Membrane-bound O-Acyltransferase Porcupine. Journal of Biological Chemistry, 2012, 287, 23246-23254.	3.4	72
22	Intracardiac flow dynamics regulate atrioventricular valve morphogenesis. Cardiovascular Research, 2014, 104, 49-60.	3.8	67
23	Generation and application of signaling pathway reporter lines in zebrafish. Molecular Genetics and Genomics, 2013, 288, 231-242.	2.1	66
24	Lef1-dependent Wnt/Î²-catenin signalling drives the proliferative engine that maintains tissue homeostasis during lateral line development. Development (Cambridge), 2011, 138, 3931-3941.	2.5	65
25	RAB8B Is Required for Activity and Caveolar Endocytosis of LRP6. Cell Reports, 2013, 4, 1224-1234.	6.4	65
26	NIM811, a cyclophilin inhibitor without immunosuppressive activity, is beneficial in collagen VI congenital muscular dystrophy models. Human Molecular Genetics, 2014, 23, 5353-5363.	2.9	64
27	Differential expression of two somatostatin genes during zebrafish embryonic development. Mechanisms of Development, 2002, 115, 133-137.	1.7	63
28	Prep1.1 has essential genetic functions in hindbrain development and cranial neural crest cell differentiation. Development (Cambridge), 2004, 131, 613-627.	2.5	62
29	Impaired Mitochondrial ATP Production Downregulates Wnt Signaling via ER Stress Induction. Cell Reports, 2019, 28, 1949-1960.e6.	6.4	56
30	Knock-down of pantothenate kinase 2 severely affects the development of the nervous and vascular system in zebrafish, providing new insights into PKAN disease. Neurobiology of Disease, 2016, 85, 35-48.	4.4	55
31	Expression patterns of zebrafish sox11A, sox11B and sox21. Mechanisms of Development, 1999, 89, 167-171.	1.7	52
32	A Smad3 transgenic reporter reveals TGF-beta control of zebrafish spinal cord development. Developmental Biology, 2014, 396, 81-93.	2.0	52
33	The binding of the RyR2 calcium channel to its gating protein FKBP12.6 is oppositely affected by ARVD2 and VTSIP mutations. Biochemical and Biophysical Research Communications, 2002, 299, 594-598.	2.1	51
34	Alisporivir rescues defective mitochondrial respiration in Duchenne muscular dystrophy. Pharmacological Research, 2017, 125, 122-131.	7.1	51
35	Disruptions of Global and Jagged1-Mediated Notch Signaling Affect Thyroid Morphogenesis in the Zebrafish. Endocrinology, 2012, 153, 5645-5658.	2.8	50
36	Glucocorticoids promote Von Hippel Lindau degradation and Hif-1Î± stabilization. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9948-9953.	7.1	49

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37	High-affinity peptide transporter PEPT2 (SLC15A2) of the zebrafish Danio rerio: functional properties, genomic organization, and expression analysis. Physiological Genomics, 2006, 24, 207-217.	2.3	48
38	Glucocerebrosidase deficiency in zebrafish affects primary bone ossification through increased oxidative stress and reduced Wnt/Î²-catenin signaling. Human Molecular Genetics, 2015, 24, 1280-1294.	2.9	46
39	Zebrafish mutants and TEAD reporters reveal essential functions for Yap and Taz in posterior cardinal vein development. Scientific Reports, 2018, 8, 10189.	3.3	42
40	Discovery, Synthesis, and Optimization of Diarylisoxazoleâ€3â€carboxamides as Potent Inhibitors of the Mitochondrial Permeability Transition Pore. ChemMedChem, 2015, 10, 1655-1671.	3.2	41
41	Biasing Amacrine Subtypes in the Atoh7 Lineage through Expression of Barhl2. Journal of Neuroscience, 2012, 32, 13929-13944.	3.6	40
42	Expression analysis ofjagged genes in zebrafish embryos. Developmental Dynamics, 2005, 233, 638-645.	1.8	39
43	Loss of cardiac Wnt/Î²-catenin signalling in desmoplakin-deficient AC8 zebrafish models is rescuable by genetic and pharmacological intervention. Cardiovascular Research, 2018, 114, 1082-1097.	3.8	39
44	Cloning of Zebrafish Neurofilament cDNAs for Plasticin and Gefiltin: Increased mRNA Expression in Ganglion Cells After Optic Nerve Injury. Journal of Neurochemistry, 2002, 71, 20-32.	3.9	38
45	Ectopic expression and knockdown of a zebrafish sox21 reveal its role as a transcriptional repressor in early development. Mechanisms of Development, 2004, 121, 131-142.	1.7	38
46	Emilin3 is required for notochord sheath integrity and interacts with Scube2 to regulate notochord-derived Hedgehog signals. Development (Cambridge), 2013, 140, 4594-4601.	2.5	38
47	Y705 and S727 are required for the mitochondrial import and transcriptional activities of STAT3, and for regulation of stem cell proliferation. Development (Cambridge), 2021, 148, .	2.5	38
48	A novel functional role of iduronate-2-sulfatase in zebrafish early development. Matrix Biology, 2010, 29, 43-50.	3.6	37
49	Zebrafish reporter lines reveal in vivo signaling pathway activities involved in pancreatic cancer. DMM Disease Models and Mechanisms, 2014, 7, 883-94.	2.4	37
50	The basic helix-loop-helix olig3 establishes the neural plate boundary of the trunk and is necessary for development of the dorsal spinal cord. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4377-4382.	7.1	36
51	Simplet/Fam53b is required for Wnt signal transduction by regulating Î²-catenin nuclear localization. Development (Cambridge), 2014, 141, 3529-3539.	2.5	35
52	Mutant MYO1F alters the mitochondrial network and induces tumor proliferation in thyroid cancer. International Journal of Cancer, 2018, 143, 1706-1719.	5.1	35
53	The Roles of Post-Translational Modifications in STAT3 Biological Activities and Functions. Biomedicines, 2021, 9, 956.	3.2	35
54	A living biosensor model to dynamically trace glucocorticoid transcriptional activity during development and adult life in zebrafish. Molecular and Cellular Endocrinology, 2014, 392, 60-72.	3.2	34

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55	The Transcriptional Regulation of the Growth Hormone Gene Is Conserved in Vertebrate Evolution. Biochemical and Biophysical Research Communications, 1993, 192, 1360-1366.	2.1	33
56	Developmental defects and neuromuscular alterations due to mitofusin 2 gene (MFN2) silencing in zebrafish: a new model for Charcot-Marie-Tooth type 2A neuropathy. Neuromuscular Disorders, 2011, 21, 58-67.	0.6	33
57	Lines of Danio rerio selected for opposite behavioural lateralization show differences in anatomical leftâ€“right asymmetries. Behavioural Brain Research, 2009, 197, 157-165.	2.2	31
58	The idebenone metabolite QS10 restores electron transfer in complex I and coenzyme Q defects. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 901-908.	1.0	31
59	A TGACG Motif Mediates Growth-Hormone-Factor-1/Pituitary-Transcriptional-Activator-1-Dependent cAMP Regulation of the Rainbow Trout Growth-Hormone Promoter. FEBS Journal, 1996, 238, 591-598.	0.2	30
60	Mitochondrial Ca2+ transport and permeability transition in zebrafish (Danio rerio). Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1775-1779.	1.0	30
61	Mechanisms of Transcriptional Activation of the Promoter of the Rainbow Trout Prolactin Gene by GHF1/Pit1 and Glucocorticoid. Biochemical and Biophysical Research Communications, 1996, 224, 57-66.	2.1	28
62	An Activation Domain of the Helix-Loop-Helix Transcription Factor E2A Shows Cell Type Preference In Vivo in Microinjected Zebra Fish Embryos. Molecular and Cellular Biology, 1996, 16, 1714-1721.	2.3	28
63	Molecular cloning and biochemical characterization of sialidases from zebrafish (<i>Danio) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	3.7	28
64	Use of random DNA amplification to generate specific molecular probes for hybridization tests and PCR-based diagnosis of Yersinia ruckeri. Diseases of Aquatic Organisms, 1996, 24, 121-127.	1.0	28
65	Treponema pallidum (syphilis) antigen TpF1 induces angiogenesis through the activation of the IL-8 pathway. Scientific Reports, 2016, 6, 18785.	3.3	27
66	Analysis of beta cell proliferation dynamics in zebrafish. Developmental Biology, 2009, 332, 299-308.	2.0	24
67	Zebrafish Tg(hb9:MTS-Kaede): a new in vivo tool for studying the axonal movement of mitochondria. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 1247-1255.	2.4	24
68	Regulatory Regions in the Promoter and Third Intron of the Growth Hormone Gene in Rainbow Trout, Oncorhynchus mykiss Walbaum. General and Comparative Endocrinology, 1999, 116, 261-271.	1.8	23
69	Feeding Entrainment of the Zebrafish Circadian Clock Is Regulated by the Glucocorticoid Receptor. Cells, 2019, 8, 1342.	4.1	21
70	The zebrafish orthologue of the human hepatocerebral disease gene<i>MPV17</i>plays pleiotropic roles in mitochondria. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	21
71	The stem-like STAT3-responsive cells of zebrafish intestine are WNT/Î²-catenin dependent. Development (Cambridge), 2020, 147, .	2.5	21
72	The Bacteriophage T7 Binary System Activates Transient Transgene Expression in Zebrafish (Danio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	20

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73	Monitoring Wnt Signaling in Zebrafish Using Fluorescent Biosensors. Methods in Molecular Biology, 2016, 1481, 81-94.	0.9	19
74	miR-7 Controls the Dopaminergic/Oligodendroglial Fate through Wnt/Î²-catenin Signaling Regulation. Cells, 2020, 9, 711.	4.1	18
75	Structure and Functional Analysis of a Tilapia (Oreochromis mossambicus) Growth Hormone Gene: Activation and Repression by Pituitary Transcription Factor Pit-1. DNA and Cell Biology, 1999, 18, 489-502.	1.9	17
76	HIF1Î±-dependent induction of the mitochondrial chaperone TRAP1 regulates bioenergetic adaptations to hypoxia. Cell Death and Disease, 2021, 12, 434.	6.3	17
77	Tcf7l2 plays pleiotropic roles in the control of glucose homeostasis, pancreas morphology, vascularization and regeneration. Scientific Reports, 2017, 7, 9605.	3.3	16
78	Emilin genes are duplicated and dynamically expressed during zebrafish embryonic development. Developmental Dynamics, 2008, 237, 222-232.	1.8	15
79	Glucocorticoid receptor activities in the zebrafish model: a review. Journal of Endocrinology, 2020, 247, R63-R82.	2.6	15
80	Temporal control of Wnt signaling is required for habenular neuron diversity and brain asymmetry. Development (Cambridge), 2020, 147, .	2.5	14
81	Notch controls the cell cycle to define leader versus follower identities during collective cell migration. ELife, 2022, 11, .	6.0	14
82	Differential expression and regulation of <i>olig</i> genes in zebrafish. Journal of Comparative Neurology, 2009, 515, 378-396.	1.6	13
83	Efficient clofilium tosylate-mediated rescue of POLG-related disease phenotypes in zebrafish. Cell Death and Disease, 2021, 12, 100.	6.3	13
84	prep1.2 and aldh1a2 participate to a positive loop required for branchial arches development in zebrafish. Developmental Biology, 2010, 343, 94-103.	2.0	12
85	Functional characterization of the trout insulin promoter: implications for fish as a favorable model of pancreas development. FEBS Letters, 1997, 407, 191-196.	2.8	11
86	Trout GH promoter analysis reveals a modular pattern of regulation consistent with the diversification of GH gene control and function in vertebrates. Molecular and Cellular Endocrinology, 2002, 189, 11-23.	3.2	11
87	Isolation and Genetic Characterization of Mother-of-Snow-White, a Maternal Effect Allele Affecting Laterality and Lateralized Behaviors in Zebrafish. PLoS ONE, 2011, 6, e25972.	2.5	9
88	Cloning and expression pattern of a zebrafish homolog of forkhead activin signal transducer (FAST), a transcription factor mediating Nodal-related signals. Mechanisms of Development, 2000, 99, 187-190.	1.7	8
89	Developmental Expression of NPY/PYY Receptors zYb and zYc in Zebrafish. Annals of the New York Academy of Sciences, 2005, 1040, 399-401.	3.8	8
90	Calsequestrins in skeletal and cardiac muscle from adult Danio rerio. Journal of Muscle Research and Cell Motility, 2016, 37, 27-39.	2.0	8

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91	Anti-Proliferative and Pro-Apoptotic Effects of Short-Term Inhibition of Telomerase In Vivo and in Human Malignant B Cells Xenografted in Zebrafish. Cancers, 2020, 12, 2052.	3.7	8
92	Zebrafish Mutant Lines Reveal the Interplay between nr3c1 and nr3c2 in the GC-Dependent Regulation of Gene Transcription. International Journal of Molecular Sciences, 2022, 23, 2678.	4.1	8
93	Efficient Neuroprotective Rescue of Sacsin-Related Disease Phenotypes in Zebrafish. International Journal of Molecular Sciences, 2021, 22, 8401.	4.1	7
94	A GFP-Tagged Gross Deletion on Chromosome 1 Causes Malignant Peripheral Nerve Sheath Tumors and Carcinomas in Zebrafish. PLoS ONE, 2015, 10, e0145178.	2.5	7
95	Zebrafish spata2 is expressed at early developmental stages. International Journal of Developmental Biology, 2007, 51, 241-246.	0.6	7
96	Centrosome competition: A possibility?. Experimental Cell Research, 1990, 187, 1-3.	2.6	6
97	Zebrafish as a model for von Hippel Lindau and hypoxia-inducible factor signaling. Methods in Cell Biology, 2017, 138, 497-523.	1.1	6
98	<i>mll</i> ortholog containing functional domains of human <i>MLL</i> is expressed throughout the zebrafish lifespan and in haematopoietic tissues. British Journal of Haematology, 2011, 152, 307-321.	2.5	5
99	10th European Zebrafish Meeting 2017, Budapest: Husbandry Workshop Summary. Zebrafish, 2018, 15, 213-215.	1.1	3
100	Calsequestrins New Calcium Store Markers of Adult Zebrafish Cerebellum and Optic Tectum. Frontiers in Neuroanatomy, 2020, 14, 15.	1.7	3
101	af9 Regulates gata2 Expression During Early Hemangioblast Specification and Vascular Pattern Formation In Zebrafish.. Blood, 2010, 116, 2600-2600.	1.4	1
102	Zebrafish Ortholog of Human DOT1L Regulates Primitive and Transient Definitive Hematopoiesis and Controls hoxa9 and meis1 Expression. Blood, 2012, 120, 849-849.	1.4	1
103	A mitochondrial therapy for Duchenne muscular dystrophy. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, e112.	1.0	0
104	Transgenesis, mutagenesis, knockdown, and genetic colony management. , 2022, , 139-155.		0
105	The Human AF9 Homologue in Zebrafish Is Involved in Primitive Hematopoietic Development.. Blood, 2009, 114, 3653-3653.	1.4	0
106	Simplet/Fam53b is required for Wnt signal transduction by regulating Î^{2}-catenin nuclear localization. Journal of Cell Science, 2014, 127, e1-e1.	2.0	0