Mary C Mullins

List of Publications by Year
in descending order

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67	5,458	126907	102487
papers	citations	33 h-index	66 g-index

72	72	72	5367
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Large-scale mutagenesis in the zebrafish: in search of genes controlling development in a vertebrate. Current Biology, 1994, 4, 189-202.	3.9	712
2	Ventral and Lateral Regions of the Zebrafish Gastrula, Including the Neural Crest Progenitors, Are Established by abmp2b/swirlPathway of Genes. Developmental Biology, 1998, 199, 93-110.	2.0	398
3	Regulation of Msx genes by a Bmp gradient is essential for neural crest specification. Development (Cambridge), 2003, 130, 6441-6452.	2.5	277
4	Guidelines for morpholino use in zebrafish. PLoS Genetics, 2017, 13, e1007000.	3.5	255
5	Bone morphogenetic protein heterodimers assemble heteromeric type I receptor complexes to pattern the dorsoventral axis. Nature Cell Biology, 2009, 11, 637-643.	10.3	217
6	Maternal Control of Vertebrate Development before the Midblastula Transition. Developmental Cell, 2004, 6, 771-780.	7.0	216
7	Bucky ball functions in Balbiani body assembly and animalâ€“vegetal polarity in the oocyte and follicle cell layer in zebrafish. Developmental Biology, 2008, 321, 40-50.	2.0	205
8	Differential Regulation ofchordinExpression Domains in Mutant Zebrafish. Developmental Biology, 1997, 192, 537-550.	2.0	199
9	Bucky Ball Organizes Germ Plasm Assembly in Zebrafish. Current Biology, 2009, 19, 414-422.	3.9	199
10	The BMP Signaling Gradient Patterns Dorsoventral Tissues in a Temporally Progressive Manner along the Anteroposterior Axis. Developmental Cell, 2008, 14, 108-119.	7.0	194
11	The fibrodysplasia ossificans progressiva R206H ACVR1 mutation activates BMP-independent chondrogenesis and zebrafish embryo ventralization. Journal of Clinical Investigation, 2009, 119, 3462-72.	8.2	178
12	Maternal and Zygotic Control of Zebrafish Dorsoventral Axial Patterning. Annual Review of Genetics, 2011, 45, 357-377.	7.6	174
13	Maternal Control of Development at the Midblastula Transition and beyond. Developmental Cell, 2004, 6, 781-790.	7.0	143
14	Early zebrafish development: It's in the maternal genes. Current Opinion in Genetics and Development, 2009, 19, 396-403.	3.3	138
15	TGF-Î² Family Signaling in Early Vertebrate Development. Cold Spring Harbor Perspectives in Biology, 2018, 10, a033274.	5.5	114
16	Extracellular modulation of BMP activity in patterning the dorsoventral axis. Birth Defects Research Part C: Embryo Today Reviews, 2006, 78, 224-242.	3.6	97
17	Patterning the Early Zebrafish by the Opposing Actions of bozozok and vox/vent. Developmental Biology, 2000, 224, 275-285.	2.0	95
18	Dissection of Organs from the Adult Zebrafish. Journal of Visualized Experiments, 2010, , .	0.3	92

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19	Microtubule Actin Crosslinking Factor 1 Regulates the Balbiani Body and Animal-Vegetal Polarity of the Zebrafish Oocyte. PLoS Genetics, 2010, 6, e1001073.	3.5	91
20	Temporally coordinated signals progressively pattern the anteroposterior and dorsoventral body axes. Seminars in Cell and Developmental Biology, 2015, 42, 118-133.	5.0	90
21	Oocyte Polarization Is Coupled to the Chromosomal Bouquet, a Conserved Polarized Nuclear Configuration in Meiosis. PLoS Biology, 2016, 14, e1002335.	5.6	84
22	Systems biology derived source-sink mechanism of BMP gradient formation. ELife, 2017, 6, .	6.0	81
23	Maternally Supplied Smad5 Is Required for Ventral Specification in Zebrafish Embryos Prior to Zygotic Bmp Signaling. Developmental Biology, 2002, 250, 263-279.	2.0	64
24	Anteroposterior and dorsoventral patterning are coordinated by an identical patterning clock. Development (Cambridge), 2013, 140, 1970-1980.	2.5	60
25	Modulation of BMP Activity in Dorsal-Ventral Pattern Formation by the Chordin and Ogon Antagonists. Developmental Biology, 2002, 245, 109-123.	2.0	56
26	The vertebrate Balbiani body, germ plasm, and oocyte polarity. Current Topics in Developmental Biology, 2019, 135, 1-34.	2.2	53
27	Holy Tolloido: Tolloid cleaves SOG/Chordin to free DPP/BMPs. Trends in Genetics, 1998, 14, 127-129.	6.7	52
28	hnRNP I is required to generate the Ca2+ signal that causes egg activation in zebrafish. Development (Cambridge), 2009, 136, 3007-3017.	2.5	51
29	Coordination of cellular differentiation, polarity, mitosis and meiosis â€“ New findings from early vertebrate oogenesis. Developmental Biology, 2017, 430, 275-287.	2.0	49
30	An Intermediate Level of BMP Signaling Directly Specifies Cranial Neural Crest Progenitor Cells in Zebrafish. PLoS ONE, 2011, 6, e27403.	2.5	49
31	A Novel Role for MAPKAPK2 in Morphogenesis during Zebrafish Development. PLoS Genetics, 2009, 5, e1000413.	3.5	48
32	Dynamic Assembly of Brambleberry Mediates Nuclear Envelope Fusion during Early Development. Cell, 2012, 150, 521-532.	28.9	46
33	Hecate/Grip2a Acts to Reorganize the Cytoskeleton in the Symmetry-Breaking Event of Embryonic Axis Induction. PLoS Genetics, 2014, 10, e1004422.	3.5	46
34	Methods for the analysis of early oogenesis in Zebrafish. Developmental Biology, 2017, 430, 310-324.	2.0	41
35	The Chromosomal Passenger Protein Birc5b Organizes Microfilaments and Germ Plasm in the Zebrafish Embryo. PLoS Genetics, 2013, 9, e1003448.	3.5	39
36	The Integrator Complex Subunit 6 (Ints6) Confines the Dorsal Organizer in Vertebrate Embryogenesis. PLoS Genetics, 2013, 9, e1003822.	3.5	36

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37	Microtubule-actin crosslinking factor 1 (Macf1) domain function in Balbiani body dissociation and nuclear positioning. PLoS Genetics, 2017, 13, e1006983.	3.5	32
38	The BMP signaling gradient is interpreted through concentration thresholds in dorsalâ€“ventral axial patterning. PLoS Biology, 2021, 19, e3001059.	5.6	32
39	SnapShot: BMP Signaling in Development. Cell, 2011, 145, 636-636.e2.	28.9	31
40	Localization in Oogenesis of Maternal Regulators of Embryonic Development. Advances in Experimental Medicine and Biology, 2017, 953, 173-207.	1.6	28
41	BMP heterodimers signal via distinct type I receptor class functions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	28
42	Fishing forward and reverse: Advances in zebrafish phenomics. Mechanisms of Development, 2018, 154, 296-308.	1.7	26
43	Fibrodysplasia ossificans progressiva mutant ACVR1 signals by multiple modalities in the developing zebrafish. ELife, 2020, 9, .	6.0	26
44	The Hippo pathway effector Taz is required for cell morphogenesis and fertilization in zebrafish. Development (Cambridge), 2018, 145, .	2.5	25
45	Temporal and spatial action of Tolloid (Mini fin) and Chordin to pattern tail tissues. Developmental Biology, 2006, 293, 191-202.	2.0	23
46	Variant BMP receptor mutations causing fibrodysplasia ossificans progressiva (FOP) in humans show BMP ligand-independent receptor activation in zebrafish. Bone, 2018, 109, 225-231.	2.9	23
47	Maternally supplied Smad5 is required for ventral specification in zebrafish embryos prior to zygotic Bmp signaling. Developmental Biology, 2002, 250, 263-79.	2.0	23
48	Split top: A maternal cathepsin B that regulates dorsoventral patterning and morphogenesis. Development (Cambridge), 2016, 143, 1016-28.	2.5	21
49	Non-acylated Wnts Can Promote Signaling. Cell Reports, 2019, 26, 875-883.e5.	6.4	21
50	Proteolytic Restriction of Chordin Range Underlies BMP Gradient Formation. Cell Reports, 2020, 32, 108039.	6.4	21
51	Formation and dynamics of cytoplasmic domains and their genetic regulation during the zebrafish oocyte-to-embryo transition. Mechanisms of Development, 2018, 154, 259-269.	1.7	17
52	The maternal coordinate system: Molecular-genetics of embryonic axis formation and patterning in the zebrafish. Current Topics in Developmental Biology, 2020, 140, 341-389.	2.2	17
53	Diversity and robustness of bone morphogenetic protein pattern formation. Development (Cambridge), 2021, 148, .	2.5	17
54	Effectiveness of Rapid Cooling as a Method of Euthanasia for Young Zebrafish (). Journal of the American Association for Laboratory Animal Science, 2018, 57, 58-63.	1.2	17

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55	Molecular genetics of maternally-controlled cell divisions. PLoS Genetics, 2020, 16, e1008652.	3.5	14
56	The zebrafish issue: 25â€...years on. Development (Cambridge), 2021, 148, .	2.5	14
57	Imaging and Quantification of P-Smad1/5 in Zebrafish Blastula and Gastrula Embryos. Methods in Molecular Biology, 2019, 1891, 135-154.	0.9	10
58	Heterodimer-heterotetramer formation mediates enhanced sensor activity in a biophysical model for BMP signaling. PLoS Computational Biology, 2021, 17, e1009422.	3.2	10
59	A proteomics approach identifies novel resident zebrafish Balbiani body proteins Cirbpa and Cirbpb. Developmental Biology, 2022, 484, 1-11.	2.0	8
60	Cell signaling pathways controlling an axis organizing center in the zebrafish. Current Topics in Developmental Biology, 2022, , 149-209.	2.2	8
61	Evaluation of BMP-mediated patterning in a 3D mathematical model of the zebrafish blastula embryo. Journal of Mathematical Biology, 2020, 80, 505-520.	1.9	6
62	Heterodimers reign in the embryo. ELife, 2017, 6, .	6.0	6
63	Isolation of Zebrafish Balbiani Bodies for Proteomic Analysis. Methods in Molecular Biology, 2019, 1920, 295-302.	0.9	4
64	G proteinâ€coupled receptor gpr34l mutation affects thrombocyte function in zebrafish. British Journal of Haematology, 2018, 180, 412-419.	2.5	3
65	Microinjection Method for Analyzing Zebrafish Early Stage Oocytes. Frontiers in Cell and Developmental Biology, 2021, 9, 753642.	3.7	3
66	Stage Specific Transcriptomic Analysis and Database for Zebrafish Oogenesis. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	3
67	All-in-one live: genes trapped, tagged and conditionally broken. Nature Methods, 2011, 8, 466-467.	19.0	1