Martin Blum

List of Publications by Year
in descending order

46 papers	2,559 citations	304743 22 h-index	223800 46 g-index
49 all docs	49 docs citations	49 times ranked	2363 citing authors

#	Article	IF	Citations
1	The Ion Channel Polycystin-2 Is Required for Left-Right Axis Determination in Mice. Current Biology, 2002, 12, 938-943.	3.9	401
2	Cilia-Driven Leftward Flow Determines Laterality in Xenopus. Current Biology, 2007, 17, 60-66.	3.9	245
3	Cell Movements at Hensenâ€™s Node Establish Left/Right Asymmetric Gene Expression in the Chick. Science, 2009, 324, 941-944.	12.6	157
4	Morpholinos: Antisense and Sensibility. Developmental Cell, 2015, 35, 145-149.	7.0	155
5	The evolution and conservation of left-right patterning mechanisms. Development (Cambridge), 2014, 141, 1603-1613.	2.5	141
6	The Nodal Inhibitor Coco Is a Critical Target of Leftward Flow in Xenopus. Current Biology, 2010, 20, 738-743.	3.9	134
7	Ciliation and gene expression distinguish between node and posterior notochord in the mammalian embryo. Differentiation, 2007, 75, 133-146.	1.9	108
8	Bicaudal C, a novel regulator of Dvl signaling abutting RNA-processing bodies, controls cilia orientation and leftward flow. Development (Cambridge), 2009, 136, 3019-3030.	2.5	102
9	<i>Xenopus</i>, an ideal model system to study vertebrate leftâ€right asymmetry. Developmental Dynamics, 2009, 238, 1215-1225.	1.8	98
10	Symmetry breakage in the vertebrate embryo: When does it happen and how does it work?. Developmental Biology, 2014, 393, 109-123.	2.0	84
11	Flow on the right side of the gastrocoel roof plate is dispensable for symmetry breakage in the frog Xenopus laevis. Developmental Biology, 2009, 331, 281-291.	2.0	74
12	ATP4a Is Required for Wnt-Dependent Foxj1 Expression and Leftward Flow in Xenopus Left-Right Development. Cell Reports, 2012, 1, 516-527.	6.4	73
13	<i>Xenopus</i>: An Undervalued Model Organism to Study and Model Human Genetic Disease. Cells Tissues Organs, 2018, 205, 303-313.	2.3	73
14	Serotonin Signaling Is Required for Wnt-Dependent GRP Specification and Leftward Flow in Xenopus. Current Biology, 2012, 22, 33-39.	3.9	60
15	Animal leftâ€“right asymmetry. Current Biology, 2018, 28, R301-R304.	3.9	58
16	Evolution of leftward flow. Seminars in Cell and Developmental Biology, 2009, 20, 464-471.	5.0	57
17	Differential gene expression of Xenopus Pitx1, Pitx2b and Pitx2c during cement gland, stomodeum and pituitary development. Mechanisms of Development, 2001, 107, 191-194.	1.7	43
18	A Conserved Role of the Unconventional Myosin 1d in Laterality Determination. Current Biology, 2018, 28, 810-816.e3.	3.9	39

#	Article	IF	Citations
19	Wnt11b Is Involved in Cilia-Mediated Symmetry Breakage during Xenopus Left-Right Development. PLoS ONE, 2013, 8, e73646.	2.5	34
20	Calponin 2 Acts As an Effector of Noncanonical Wnt-Mediated Cell Polarization during Neural Crest Cell Migration. Cell Reports, 2013, 3, 615-621.	6.4	33
21	ATP4a is required for development and function of the Xenopus mucociliary epidermis â€" a potential model to study proton pump inhibitor-associated pneumonia. Developmental Biology, 2015, 408, 292-304.	2.0	32
22	Cilia are required for asymmetric nodal induction in the sea urchin embryo. BMC Developmental Biology, 2016, 16, 28.	2.1	29
23	Bicc1 and Dicer regulate left-right patterning through post-transcriptional control of the Nodal inhibitor Dand5. Nature Communications, 2021, 12, 5482.	12.8	24
24	TGF-Î² Signaling Regulates the Differentiation of Motile Cilia. Cell Reports, 2015, 11, 1000-1007.	6.4	23
25	CFAP43 modulates ciliary beating in mouse and Xenopus. Developmental Biology, 2020, 459, 109-125.	2.0	22
26	A novel role of the organizer gene Goosecoid as an inhibitor of Wnt/PCP-mediated convergent extension in Xenopus and mouse. Scientific Reports, 2017, 7, 43010.	3.3	20
27	CFAP157 is a murine downstream effector of FOXJ1 that is specifically required for flagellum morphogenesis and sperm motility. Development (Cambridge), 2016, 143, 4736-4748.	2.5	19
28	The FOXJ1 target <i>Cfap206</i> is required for sperm motility, mucociliary clearance of the airways and brain development. Development (Cambridge), 2020, 147, .	2.5	19
29	Conserved role of matrix metalloproteases 2 and 9 in promoting the migration of neural crest cells in avian and mammalian embryos. FASEB Journal, 2020, 34, 5240-5261.	0.5	19
30	<i>Connexin26</i>-mediated transfer of laterality cues in <i>Xenopus</i>. Biology Open, 2012, 1, 473-481.	1.2	18
31	Discovery of a genetic module essential for assigning leftâ€"right asymmetry in humans and ancestral vertebrates. Nature Genetics, 2022, 54, 62-72.	21.4	16
32	An Early Function of Polycystin-2 for Left-Right Organizer Induction in Xenopus. IScience, 2018, 2, 76-85.	4.1	15
33	The evolutionary conserved FOXJ1 target gene Fam183b is essential for motile cilia in Xenopus but dispensable for ciliary function in mice. Scientific Reports, 2018, 8, 14678.	3.3	14
34	Symmetry breakage in the frog <i>Xenopus</i>: Role of Rab11 and the ventralâ€right blastomere. Genesis, 2014, 52, 588-599.	1.6	13
35	The Frog Xenopus as a Model to Study Joubert Syndrome: The Case of a Human Patient With Compound Heterozygous Variants in PIBF1. Frontiers in Physiology, 2019, 10, 134.	2.8	13
36	Leftâ€"Right Asymmetry: Cilia and Calcium Revisited. Current Biology, 2015, 25, R205-R207.	3.9	12

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37	Vertebrate Left-Right Asymmetry: What Can Nodal Cascade Gene Expression Patterns Tell Us?. Journal of Cardiovascular Development and Disease, 2018, 5, 1.	1.6	12
38	Ciliary and non-ciliary expression and function of PACRGduring vertebrate development. Cilia, 2012, 1, 13.	1.8	11
39	A dual function of FGF signaling in <i>Xenopus</i> left-right axis formation. Development (Cambridge), 2019, 146, .	2.5	11
40	ATP4 and ciliation in the neuroectoderm and endoderm of Xenopus embryos and tadpoles. Data in Brief, 2015, 4, 22-31.	1.0	10
41	A novel homozygous ARL13B variant in patients with Joubert syndrome impairs its guanine nucleotide-exchange factor activity. European Journal of Human Genetics, 2017, 25, 1324-1334.	2.8	9
42	<i>Xenopus</i>, an ideal model organism to study laterality in conjoined twins. Genesis, 2017, 55, e22993.	1.6	7
43	The Power of Strain: Organizing Left-Right Cilia. Developmental Cell, 2018, 45, 277-279.	7.0	7
44	Leftward Flow Determines Laterality in Conjoined Twins. Current Biology, 2017, 27, 543-548.	3.9	6
45	Mechanical strain, novel genes and evolutionary insights: news from the frog left-right organizer. Current Opinion in Genetics and Development, 2019, 56, 8-14.	3.3	4
46	The highly conserved FOXJ1 target CFAP161 is dispensable for motile ciliary function in mouse and Xenopus. Scientific Reports, 2021, 11, 13333.	3.3	3