Thomas Thumberger

List of Publications by Year in descending order

43 papers	2,533 citations	393982 19 h-index	264894 42 g-index
65 all docs	65 docs citations	65 times ranked	3538 citing authors

#	Article	IF	Citations
1	CCTop: An Intuitive, Flexible and Reliable CRISPR/Cas9 Target Prediction Tool. PLoS ONE, 2015, 10, e0124633.	1.1	826
2	Cilia-Driven Leftward Flow Determines Laterality in Xenopus. Current Biology, 2007, 17, 60-66.	1.8	245
3	The evolution and conservation of left-right patterning mechanisms. Development (Cambridge), 2014, 141, 1603-1613.	1.2	141
4	The Nodal Inhibitor Coco Is a Critical Target of Leftward Flow in Xenopus. Current Biology, 2010, 20, 738-743.	1.8	134
5	Bicaudal C, a novel regulator of Dvl signaling abutting RNA-processing bodies, controls cilia orientation and leftward flow. Development (Cambridge), 2009, 136, 3019-3030.	1.2	102
6	Xenopus, an ideal model system to study vertebrate leftâ€right asymmetry. Developmental Dynamics, 2009, 238, 1215-1225.	0.8	98
7	Genetic and functional insights into the fractal structure of the heart. Nature, 2020, 584, 589-594.	13.7	86
8	Efficient single-copy HDR by 5â€™ modified long dsDNA donors. ELife, 2018, 7, .	2.8	86
9	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.	0.9	74
10	ATP4a Is Required for Wnt-Dependent Foxj1 Expression and Leftward Flow in Xenopus Left-Right Development. Cell Reports, 2012, 1, 516-527.	2.9	73
11	Serotonin Signaling Is Required for Wnt-Dependent GRP Specification and Leftward Flow in Xenopus. Current Biology, 2012, 22, 33-39.	1.8	60
12	Dynamics of in vivo ASC speck formation. Journal of Cell Biology, 2017, 216, 2891-2909.	2.3	60
13	Evolution of leftward flow. Seminars in Cell and Developmental Biology, 2009, 20, 464-471.	2.3	57
14	Ciliogenesis and cerebrospinal fluid flow in the developing Xenopus brain are regulated by foxj1. Cilia, 2013, 2, 12.	1.8	52
15	A novel serotonin-secreting cell type regulates ciliary motility in the mucociliary epidermis of Xenopus tadpoles. Development (Cambridge), 2014, 141, 1526-1533.	1.2	52
16	Quantitative Analysis of Embryogenesis: A Perspective for Light Sheet Microscopy. Developmental Cell, 2012, 23, 1111-1120.	3.1	49
17	Cilia are required for asymmetric nodal induction in the sea urchin embryo. BMC Developmental Biology, 2016, 16, 28.	2.1	29
18	Linking early determinants and cilia-driven leftward flow in leftâ€“right axis specification of Xenopus laevis: A theoretical approach. Differentiation, 2012, 83, S67-S77.	1.0	21

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19	Noninvasive In Toto Imaging of the Thymus Reveals Heterogeneous Migratory Behavior of Developing T Cells. Journal of Immunology, 2015, 195, 2177-2186.	0.4	21
20	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.	1.6	20
21	Considerations for a European animal welfare standard to evaluate adverse phenotypes in teleost fish. EMBO Journal, 2016, 35, 1151-1154.	3.5	19
22	Connexin26-mediated transfer of laterality cues in Xenopus. Biology Open, 2012, 1, 473-481.	0.6	18
23	Fish primary embryonic pluripotent cells assemble into retinal tissue mirroring in vivo early eye development. ELife, 2021, 10, .	2.8	17
24	An Early Function of Polycystin-2 for Left-Right Organizer Induction in Xenopus. IScience, 2018, 2, 76-85.	1.9	15
25	Bifacial stem cell niches in fish and plants. Current Opinion in Genetics and Development, 2017, 45, 28-33.	1.5	14
26	An eye on light-sheet microscopy. Methods in Cell Biology, 2016, 133, 105-123.	0.5	12
27	Precise in vivo functional analysis of DNA variants with base editing using ACEofBASEs target prediction. ELife, 2022, 11, .	2.8	12
28	Ciliary and non-ciliary expression and function of PACRGduring vertebrate development. Cilia, 2012, 1, 13.	1.8	11
29	Expression of the novel maternal centrosome assembly factor Wdr8 is required for vertebrate embryonic mitoses. Nature Communications, 2017, 8, 14090.	5.8	11
30	Boosting targeted genome editing using the hei-tag. ELife, 2022, 11, .	2.8	10
31	Swift Large-scale Examination of Directed Genome Editing. PLoS ONE, 2019, 14, e0213317.	1.1	9
32	The C-Mannosylome of Human Induced Pluripotent Stem Cells Implies a Role for ADAMTS16 C-Mannosylation in Eye Development. Molecular and Cellular Proteomics, 2021, 20, 100092.	2.5	7
33	A complementary study approach unravels novel players in the pathoetiology of Hirschsprung disease. PLoS Genetics, 2020, 16, e1009106.	1.5	7
34	Leftward Flow Determines Laterality in Conjoined Twins. Current Biology, 2017, 27, 543-548.	1.8	6
35	Pcdh18a regulates endocytosis of E-cadherin during axial mesoderm development in zebrafish. Histochemistry and Cell Biology, 2020, 154, 463-480.	0.8	6
36	Î±Î²/Î³Î´ T cell lineage outcome is regulated by intrathymic cell localization and environmental signals. Science Advances, 2021, 7, .	4.7	6

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37	The Medaka Inbred Kiyosu-Karlsruhe (MIKK) panel. Genome Biology, 2022, 23, 59.	3.8	6
38	Genomic variations and epigenomic landscape of the Medaka Inbred Kiyosu-Karlsruhe (MIKK) panel. Genome Biology, 2022, 23, 58.	3.8	5
39	In vivo identification and validation of novel potential predictors for human cardiovascular diseases. PLoS ONE, 2021, 16, e0261572.	1.1	5
40	A patient-based medaka alg2 mutant as a model for hypo-N-glycosylation. Development (Cambridge), 2021, 148, .	1.2	2
41	Active DNA Demethylation Mediated By GADD45Î² Is Essential during G-CSF Triggered Granulocytic Differentiation. Blood, 2019, 134, 211-211.	0.6	1
42	Gastric H+/K + ATPase-dependent Wnt-signaling is required for FoxJ1 expression and cilia polarization in Xenopus leftâ€“right axis formation. Developmental Biology, 2011, 356, 209.	0.9	0
43	Acquisition of Leftward Flow in Xenopus laevis. Bio-protocol, 2013, 3, .	0.2	0