SigolÃ¨ne M Meilhac

List of Publications by Year
in descending order

43 papers	4,532 citations	257450 24 h-index	315739 38 g-index
51 all docs	51 docs citations	51 times ranked	4658 citing authors

#	Article	IF	Citations
1	Building the mammalian heart from two sources of myocardial cells. Nature Reviews Genetics, 2005, 6, 826-835.	16.3	1,051
2	The formation of skeletal muscle: from somite to limb. Journal of Anatomy, 2003, 202, 59-68.	1.5	763
3	The Clonal Origin of Myocardial Cells in Different Regions of the Embryonic Mouse Heart. Developmental Cell, 2004, 6, 685-698.	7.0	346
4	Right Ventricular Myocardium Derives From the Anterior Heart Field. Circulation Research, 2004, 95, 261-268.	4.5	334
5	The deployment of cell lineages that form the mammalian heart. Nature Reviews Cardiology, 2018, 15, 705-724.	13.7	183
6	Clonal analysis reveals common lineage relationships between head muscles and second heart field derivatives in the mouse embryo. Development (Cambridge), 2010, 137, 3269-3279.	2.5	171
7	Active cell movements coupled to positional induction are involved in lineage segregation in the mouse blastocyst. Developmental Biology, 2009, 331, 210-221.	2.0	152
8	A retrospective clonal analysis of the myocardium reveals two phases of clonal growth in the developing mouse heart. Development (Cambridge), 2003, 130, 3877-3889.	2.5	143
9	Smooth muscle of the dorsal aorta shares a common clonal origin with skeletal muscle of the myotome. Development (Cambridge), 2006, 133, 737-749.	2.5	133
10	Tracing Cells for Tracking Cell Lineage and Clonal Behavior. Developmental Cell, 2011, 21, 394-409.	7.0	125
11	Biphasic Development of the Mammalian Ventricular Conduction System. Circulation Research, 2010, 107, 153-161.	4.5	102
12	Oriented clonal cell growth in the developing mouse myocardium underlies cardiac morphogenesis. Journal of Cell Biology, 2004, 164, 97-109.	5.2	95
13	Left-right asymmetry in heart development and disease: forming the right loop. Development (Cambridge), 2018, 145, .	2.5	83
14	Asymmetric Fate of the Posterior Part of the Second Heart Field Results in Unexpected Left/Right Contributions to Both Poles of the Heart. Circulation Research, 2012, 111, 1323-1335.	4.5	79
15	Left and right ventricular contributions to the formation of the interventricular septum in the mouse heart. Developmental Biology, 2006, 294, 366-375.	2.0	76
16	Lineage Tree for the Venous Pole of the Heart. Circulation Research, 2012, 111, 1313-1322.	4.5	76
17	Amotl1 mediates sequestration of the Hippo effector Yap1 downstream of Fat4 to restrict heart growth. Nature Communications, 2017, 8, 14582.	12.8	75
18	Cardiac Cell Lineages that Form the Heart. Cold Spring Harbor Perspectives in Medicine, 2014, 4, a013888-a013888.	6.2	70

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19	A predictive model of asymmetric morphogenesis from 3D reconstructions of mouse heart looping dynamics. ELife, 2017, 6, .	6.0	70
20	Myocardium at the base of the aorta and pulmonary trunk is prefigured in the outflow tract of the heart and in subdomains of the second heart field. Developmental Biology, 2008, 313, 25-34.	2.0	62
21	The anterior visceral endoderm of the mouse embryo is established from both preimplantation precursor cells and by de novo gene expression after implantation. Developmental Biology, 2007, 309, 97-112.	2.0	39
22	Transient Nodal Signaling in Left Precursors Coordinates Opposed Asymmetries Shaping the Heart Loop. Developmental Cell, 2020, 55, 413-431.e6.	7.0	30
23	Quantitative analysis of polarity in 3D reveals local cell coordination in the embryonic mouse heart. Development (Cambridge), 2013, 140, 395-404.	2.5	29
24	Resolving cell lineage contributions to the ventricular conduction system with a Cx40â€GFP allele: A dual contribution of the first and second heart fields. Developmental Dynamics, 2013, 242, 665-677.	1.8	28
25	Regionalisation of the mouse visceral endoderm as the blastocyst transforms into the egg cylinder. BMC Developmental Biology, 2007, 7, 96.	2.1	26
26	Heart Development and Congenital Structural Heart Defects. Annual Review of Genomics and Human Genetics, 2021, 22, 257-284.	6.2	25
27	Mesoderm patterning by a dynamic gradient of retinoic acid signalling. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190556.	4.0	24
28	Extracting 3D cell parameters from dense tissue environments: application to the development of the mouse heart. Bioinformatics, 2013, 29, 772-779.	4.1	23
29	Standardised imaging pipeline for phenotyping mouse laterality defects and associated heart malformations, at multiple scales and multiple stages. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	14
30	Landmarks and Lineages in the Developing Heart. Circulation Research, 2009, 104, 1235-1237.	4.5	13
31	Intraflagellar Transport Complex B Proteins Regulate the Hippo Effector Yap1 during Cardiogenesis. Cell Reports, 2020, 32, 107932.	6.4	13
32	Cell Lineages, Growth and Repair of the Mouse Heart. Results and Problems in Cell Differentiation, 2012, 55, 263-289.	0.7	11
33	Imaging and analyzing primary cilia in cardiac cells. Methods in Cell Biology, 2015, 127, 55-73.	1.1	11
34	The more we know, the more we have to discover: an exciting future for understanding cilia and ciliopathies. Cilia, 2015, 4, 5.	1.8	8
35	Pseudodynamic analysis of heart tube formation in the mouse reveals strong regional variability and early leftâ€"right asymmetry. , 2022, 1, 504-517.		8
36	Integrating multi-scale knowledge on cardiac development into a computational model of ventricular trabeculation. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2014, 6, 389-397.	6.6	5

#	Article	IF	Citations
37	The Behavior of Cells that Form the Myocardial Compartments of the Vertebrate Heart. , 2010, , 195-217.		3
38	A fast and automated framework for extraction of nuclei from cluttered 3D images in fluorescence microscopy. , 2011, , .		3
39	Formation of the Anterior-Posterior Axis in Mammals. , 2015, , 171-188.		3
40	Shaping the mouse heart tube from the second heart field epithelium. Current Opinion in Genetics and Development, 2022, 73, 101896.	3.3	2
41	Nu3D: 3D Nuclei Segmentation from Light-Sheet Microscopy Images of the Embryonic Heart. , 2021, , .		1
42	Myocardial cell lineages in the mammalian embryo: The second heart field. Journal of Molecular and Cellular Cardiology, 2006, 40, 992.	1.9	0
43	3D cell morphology detection by association for embryo heart morphogenesis. Biological Imaging, 2022, 2, .	2.2	0