Stphane Zaffran

List of Publications by Citations

90 papers	5,731 citations	30 h-index	75 g-index
107 ext. papers	6,537 ext. citations	7.3 avg, IF	5.45 L-index

#	Paper	IF	Citations
90	Building the mammalian heart from two sources of myocardial cells. *Nature Reviews Genetics*, **2005**, 6, 826-35	30.1	914
89	Direct isolation of satellite cells for skeletal muscle regeneration. *Science*, **2005**, 309, 2064-7	33.3	821
88	Pax3 and Pax7 have distinct and overlapping functions in adult muscle progenitor cells. *Journal of Cell Biology*, **2006**, 172, 91-102	7.3	500
87	An Nkx2-5/Bmp2/Smad1 negative feedback loop controls heart progenitor specification and proliferation. *Cell*, **2007**, 128, 947-59	56.2	418
86	Right ventricular myocardium derives from the anterior heart field. *Circulation Research*, **2004**, 95, 261-8	15.7	292
85	Early signals in cardiac development. *Circulation Research*, **2002**, 91, 457-69	15.7	246
84	Rotation of the myocardial wall of the outflow tract is implicated in the normal positioning of the great arteries. *Circulation Research*, **2006**, 98, 421-8	15.7	162
83	Retinoic acid deficiency alters second heart field formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 2913-8	11.5	160
82	Fgf10 expression identifies parabronchial smooth muscle cell progenitors and is required for their entry into the smooth muscle cell lineage. *Development (Cambridge)*, **2005**, 132, 2157-66	6.6	151
81	Atrial myocardium derives from the posterior region of the second heart field, which acquires left-right identity as Pitx2c is expressed. *Development (Cambridge)*, **2008**, 135, 1157-67	6.6	115
80	Hox genes define distinct progenitor sub-domains within the second heart field. *Developmental Biology*, **2011**, 353, 266-74	3.1	106
79	biniou (FoxF), a central component in a regulatory network controlling visceral mesoderm development and midgut morphogenesis in Drosophila. *Genes and Development*, **2001**, 15, 2900-15	12.6	95
78	Fibroblast growth factor 10 gene regulation in the second heart field by Tbx1, Nkx2-5, and Islet1 reveals a genetic switch for down-regulation in the myocardium. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 18273-80	11.5	90
77	Early cardiac development: a view from stem cells to embryos. *Cardiovascular Research*, **2012**, 96, 352-62	9.9	88
76	Endogenous retinoic acid regulates cardiac progenitor differentiation. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 9234-9	11.5	80
75	Correction: Pax3 and Pax7 have distinct and overlapping functions in adult muscle progenitor cells. *Journal of Cell Biology*, **2007**, 176, 125-125	7.3	78
74	Congenital heart defects in Fgfr2-IIIb and Fgf10 mutant mice. *Cardiovascular Research*, **2006**, 71, 50-60	9.9	75

73	Tbx1 coordinates addition of posterior second heart field progenitor cells to the arterial and venous poles of the heart. *Circulation Research*, **2014**, 115, 790-9	15.7	72
72	Cardioblast-intrinsic Tinman activity controls proper diversification and differentiation of myocardial cells in Drosophila. *Development (Cambridge)*, **2006**, 133, 4073-83	6.6	70
71	Decreased levels of embryonic retinoic acid synthesis accelerate recovery from arterial growth delay in a mouse model of DiGeorge syndrome. *Circulation Research*, **2010**, 106, 686-94	15.7	67
70	The heterotrimeric protein Go is required for the formation of heart epithelium in Drosophila. *Journal of Cell Biology*, **1999**, 145, 1063-76	7.3	67
69	New developments in the second heart field. *Differentiation*, **2012**, 84, 17-24	3.5	65
68	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	3.1	53
67	Mechanisms of retinoic acid signaling during cardiogenesis. *Mechanisms of Development*, **2017**, 143, 9-19	1.7	52
66	Pericardin, a Drosophila type IV collagen-like protein is involved in the morphogenesis and maintenance of the heart epithelium during dorsal ectoderm closure. *Development (Cambridge)*, **2002**, 129, 3241-53	6.6	48
65	The NK-2 homeobox gene scarecrow (scro) is expressed in pharynx, ventral nerve cord and brain of Drosophila embryos. *Mechanisms of Development*, **2000**, 94, 237-41	1.7	42
64	ISL1 directly regulates FGF10 transcription during human cardiac outflow formation. *PLoS ONE*, **2012**, 7, e30677	3.7	35
63	T-box genes and retinoic acid signaling regulate the segregation of arterial and venous pole progenitor cells in the murine second heart field. *Human Molecular Genetics*, **2018**, 27, 3747-3760	5.6	34
62	Hoxb1 regulates proliferation and differentiation of second heart field progenitors in pharyngeal mesoderm and genetically interacts with Hoxa1 during cardiac outflow tract development. *Developmental Biology*, **2015**, 406, 247-58	3.1	33
61	Human pre-valvular endocardial cells derived from pluripotent stem cells recapitulate cardiac pathophysiological valvulogenesis. *Nature Communications*, **2019**, 10, 1929	17.4	30
60	Transcriptome analysis of mouse and human sinoatrial node cells reveals a conserved genetic program. *Development (Cambridge)*, **2019**, 146,	6.6	30
59	Value of in vivo T2 measurement for myocardial fibrosis assessment in diabetic mice at 11.75 T. *Investigative Radiology*, **2012**, 47, 319-23	10.1	29
58	Expression of Slit and Robo genes in the developing mouse heart. *Developmental Dynamics*, **2010**, 239, 3303-11	2.9	29
57	Genetics and embryological mechanisms of congenital heart diseases. *Archives of Cardiovascular Diseases*, **2009**, 102, 59-63	2.7	28
56	Cellular interactions during heart morphogenesis in the Drosophila embryo. *Biology of the Cell*, **1995**, 84, 13-24	3.5	28

55	Disruption of CXCR4 signaling in pharyngeal neural crest cells causes DiGeorge syndrome-like malformations. *Development (Cambridge)*, **2016**, 143, 582-8	6.6	27
54	The Drosophila Hand gene is required for remodeling of the developing adult heart and midgut during metamorphosis. *Developmental Biology*, **2007**, 311, 287-96	3.1	24
53	Conotruncal defects associated with anomalous pulmonary venous connections. *Archives of Cardiovascular Diseases*, **2009**, 102, 105-10	2.7	23
52	Piezo1 is required for outflow tract and aortic valve development. *Journal of Molecular and Cellular Cardiology*, **2020**, 143, 51-62	5.8	22
51	Krox20 defines a subpopulation of cardiac neural crest cells contributing to arterial valves and bicuspid aortic valve. *Development (Cambridge)*, **2018**, 145,	6.6	22
50	Cardiogenesis in the Drosophila model: control mechanisms during early induction and diversification of cardiac progenitors. *Cold Spring Harbor Symposia on Quantitative Biology*, **2002**, 67, 1-12	3.9	22
49	Cardiac outflow morphogenesis depends on effects of retinoic acid signaling on multiple cell lineages. *Developmental Dynamics*, **2016**, 245, 388-401	2.9	21
48	A retinoic acid responsive Hoxa3 transgene expressed in embryonic pharyngeal endoderm, cardiac neural crest and a subdomain of the second heart field. *PLoS ONE*, **2011**, 6, e27624	3.7	20
47	Bmp2 and Notch cooperate to pattern the embryonic endocardium. *Development (Cambridge)*, **2018**, 145,	6.6	20
46	Asb2Filamin A Axis Is Essential for Actin Cytoskeleton Remodeling During Heart Development. *Circulation Research*, **2018**, 122, e34-e48	15.7	18
45	A roadmap for the Human Developmental Cell Atlas. *Nature*, **2021**, 597, 196-205	50.4	18
44	Giant congenital melanocytic nevus with vascular malformation and epidermal cysts associated with a somatic activating mutation in BRAF. *Pigment Cell and Melanoma Research*, **2018**, 31, 437-441	4.5	16
43	Retinoids and Cardiac Development. *Journal of Developmental Biology*, **2014**, 2, 50-71	3.5	16
42	Loss of Krox20 results in aortic valve regurgitation and impaired transcriptional activation of fibrillar collagen genes. *Cardiovascular Research*, **2014**, 104, 443-55	9.9	16
41	The homeodomain of Tinman mediates homo- and heterodimerization of NK proteins. *Biochemical and Biophysical Research Communications*, **2005**, 334, 361-9	3.4	16
40	-dependent coordination of mouse cardiac progenitor cell patterning and differentiation. *ELife*, **2020**, 9,	8.9	16
39	Hox and Tale transcription factors in heart development and disease. *International Journal of Developmental Biology*, **2018**, 62, 837-846	1.9	16
38	Hoxa1 and Hoxb1 are required for pharyngeal arch artery development. *Mechanisms of Development*, **2017**, 143, 1-8	1.7	15

37	Myocardial Bmp2 gain causes ectopic EMT and promotes cardiomyocyte proliferation and immaturity. *Cell Death and Disease*, **2018**, 9, 399	9.8	15
36	The beta 3 tubulin gene is a direct target of bagpipe and biniou in the visceral mesoderm of Drosophila. *Mechanisms of Development*, **2002**, 114, 85-93	1.7	15
35	Molecular cloning and embryonic expression of dFKBP59, a novel Drosophila FK506-binding protein. *Gene*, **2000**, 246, 103-9	3.8	15
34	Hox Genes in Cardiovascular Development and Diseases. *Journal of Developmental Biology*, **2016**, 4,	3.5	14
33	Ectopic expression of Hoxb1 induces cardiac and craniofacial malformations. *Genesis*, **2018**, 56, e23221	1.9	12
32	Reduced aggrecan expression affects cardiac outflow tract development in zebrafish and is associated with bicuspid aortic valve disease in humans. *International Journal of Cardiology*, **2017**, 249, 340-343	3.2	11
31	Novel ALPK3 mutation in a Tunisian patient with pediatric cardiomyopathy and facio-thoraco-skeletal features. *Journal of Human Genetics*, **2018**, 63, 1077-1082	4.3	9
30	The alternatively spliced LRRFIP1 Isoform-1 is a key regulator of the Wnt/Ecatenin transcription pathway. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2017**, 1864, 1142-1152	4.9	8
29	Msx1CreERT2 knock-In allele: A useful tool to target embryonic and adult cardiac valves. *Genesis*, **2015**, 53, 337-45	1.9	7
28	Cell history determines the maintenance of transcriptional differences between left and right ventricular cardiomyocytes in the developing mouse heart. *Journal of Cell Science*, **2003**, 116, 5005-13	5.3	7
27	Development of the Larval Visceral Musculature **2006**, 62-78		6
26	Actionable Genes, Core Databases, and Locus-Specific Databases. *Human Mutation*, **2016**, 37, 1299-1307	4.7	5
25	WES/WGS Reporting of Mutations from Cardiovascular "Actionable" Genes in Clinical Practice: A Key Role for UMD Knowledgebases in the Era of Big Databases. *Human Mutation*, **2016**, 37, 1308-1317	4.7	5
24	Krox20 Regulates Endothelial Nitric Oxide Signaling in Aortic Valve Development and Disease. *Journal of Cardiovascular Development and Disease*, **2019**, 6,	4.2	5
23	FOXC1 haploinsufficiency due to 6p25 deletion in a patient with rapidly progressing aortic valve disease. *American Journal of Medical Genetics, Part A*, **2017**, 173, 2489-2493	2.5	5
22	Krox20 heterozygous mice: A model of aortic regurgitation associated with decreased expression of fibrillar collagen genes. *Archives of Cardiovascular Diseases*, **2016**, 109, 188-98	2.7	4
21	Anterior Hox Genes in Cardiac Development and Great Artery Patterning. *Journal of Cardiovascular Development and Disease*, **2014**, 1, 3-13	4.2	4
20	Genetic lineage tracing analysis of anterior Hox expressing cells. *Methods in Molecular Biology*, **2014** , 1196, 37-48	1.4	4

19	Multiallelic rare variants support an oligogenic origin of sudden cardiac death in the young. *Herz*, **2021**, 46, 94-102	2.6	4
18	A severe clinical phenotype of Noonan syndrome with neonatal hypertrophic cardiomyopathy in the second case worldwide with RAF1 S259Y neomutation. *Genetical Research*, **2019**, 101, e6	1.1	3
17	Msx1 haploinsufficiency modifies the Pax9-deficient cardiovascular phenotype. *BMC Developmental Biology*, **2021**, 21, 14	3.1	3
16	Piezo1 is required for outflow tract and aortic valve development		3
15	Retinoic Acid Signaling and Heart Development **2015**, 353-369		2
14	Author response: Hox-dependent coordination of mouse cardiac progenitor cell patterning and differentiation **2020**,		2
13	Hox-dependent coordination of cardiac progenitor cell patterning and differentiation		2
12	Identification of a peripheral blood gene signature predicting aortic valve calcification. *Physiological Genomics*, **2020**, 52, 563-574	3.6	2
11	Outflow Tract Formation-Embryonic Origins of Conotruncal Congenital Heart Disease. *Journal of Cardiovascular Development and Disease*, **2021**, 8,	4.2	2
10	Side-dependent effect in the response of valve endothelial cells to bidirectional shear stress. *International Journal of Cardiology*, **2021**, 323, 220-228	3.2	2
9	La Souris comme modle dtude de la morphogense du cur chez les mammifres : origine des myocytes et tudes dexplants cardiaques. *Socit De Biologie Journal*, **2003**, 197, 187-194		1
8	Hox-Dependent Coordination of Cardiac Cell Patterning and Differentiation. *SSRN Electronic Journal*,	1	1
7	Identification of two variants in and genes in a patient with catecholaminergic polymorphic ventricular tachycardia suggesting new candidate disease genes and digenic inheritance.. *Clinical Case Reports (discontinued)*, **2022**, 10, e05339	0.7	1
6	Clinical insights into a tertiary care center cohort of patients with bicuspid aortic valve. *International Journal of Cardiovascular Imaging*, **2021**, 1	2.5	0
5	Single Cell Approaches to Understand the Earliest Steps in Heart Development.. *Current Cardiology Reports*, **2022**, 1	4.2	0
4	Origines gntique et dveloppementale de la bicuspidie aortique. *Archives Des Maladies Du Coeur Et Des Vaisseaux - Pratique*, **2017**, 2017, 22-26	0	
3	An uncommon cause of tricuspid regurgitation: three-dimensional echocardiographic incremental value, surgical and genetic insights. *European Journal of Cardio-thoracic Surgery*, **2016**, 50, 180-2	3	
2	Fgf10 and the Embryological Origin of Outflow Tract Myocardium **2007**, 81-83		

1	Analysis of HOXB1 gene in a cohort of patients with sporadic ventricular septal defect. *Molecular Biology Reports*, **2018**, 45, 1507-1513	2.8