

# Stéphane Zaffran

## List of Publications by Year in descending order

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93  
papers

6,994  
citations

117625

34  
h-index

60623

81  
g-index

107  
all docs

107  
docs citations

107  
times ranked

7097  
citing authors

#	ARTICLE	IF	CITATIONS
1	Building the mammalian heart from two sources of myocardial cells. <i>Nature Reviews Genetics</i> , 2005, 6, 826-835.	16.3	1,051
2	Direct Isolation of Satellite Cells for Skeletal Muscle Regeneration. <i>Science</i> , 2005, 309, 2064-2067.	12.6	939
3	Pax3 and Pax7 have distinct and overlapping functions in adult muscle progenitor cells. <i>Journal of Cell Biology</i> , 2006, 172, 91-102.	5.2	599
4	An Nkx2-5/Bmp2/Smad1 Negative Feedback Loop Controls Heart Progenitor Specification and Proliferation. <i>Cell</i> , 2007, 128, 947-959.	28.9	470
5	Right Ventricular Myocardium Derives From the Anterior Heart Field. <i>Circulation Research</i> , 2004, 95, 261-268.	4.5	334
6	Early Signals in Cardiac Development. <i>Circulation Research</i> , 2002, 91, 457-469.	4.5	272
7	Rotation of the Myocardial Wall of the Outflow Tract Is Implicated in the Normal Positioning of the Great Arteries. <i>Circulation Research</i> , 2006, 98, 421-428.	4.5	190
8	Retinoic acid deficiency alters second heart field formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 2913-2918.	7.1	186
9	<i>Fgf10</i> expression identifies parabronchial smooth muscle cell progenitors and is required for their entry into the smooth muscle cell lineage. <i>Development (Cambridge)</i> , 2005, 132, 2157-2166.	2.5	168
10	Hox genes define distinct progenitor sub-domains within the second heart field. <i>Developmental Biology</i> , 2011, 353, 266-274.	2.0	144
11	Atrial myocardium derives from the posterior region of the second heart field, which acquires left-right identity as <i>Pitx2c</i> is expressed. <i>Development (Cambridge)</i> , 2008, 135, 1157-1167.	2.5	134
12	<i>FoxF</i> , a central component in a regulatory network controlling visceral mesoderm development and midgut morphogenesis in <i>Drosophila</i> . <i>Genes and Development</i> , 2001, 15, 2900-2915.	5.9	133
13	Early cardiac development: a view from stem cells to embryos. <i>Cardiovascular Research</i> , 2012, 96, 352-362.	3.8	115
14	A roadmap for the Human Developmental Cell Atlas. <i>Nature</i> , 2021, 597, 196-205.	27.8	114
15	<i>Fgf10</i> gene regulation in the second heart field by <i>Tbx1</i> , <i>Nkx2-5</i> , and <i>Islet1</i> reveals a genetic switch for down-regulation in the myocardium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18273-18280.	7.1	109
16	<i>Tbx1</i> Coordinates Addition of Posterior Second Heart Field Progenitor Cells to the Arterial and Venous Poles of the Heart. <i>Circulation Research</i> , 2014, 115, 790-799.	4.5	105
17	Endogenous retinoic acid regulates cardiac progenitor differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9234-9239.	7.1	96
18	Congenital heart defects in <i>Fgfr2-IIIb</i> and <i>Fgf10</i> mutant mice. <i>Cardiovascular Research</i> , 2006, 71, 50-60.	3.8	86

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19	Cardioblast-intrinsic Tinman activity controls proper diversification and differentiation of myocardial cells in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2006, 133, 4073-4083.	2.5	86
20	Decreased Levels of Embryonic Retinoic Acid Synthesis Accelerate Recovery From Arterial Growth Delay in a Mouse Model of DiGeorge Syndrome. <i>Circulation Research</i> , 2010, 106, 686-694.	4.5	82
21	New developments in the second heart field. <i>Differentiation</i> , 2012, 84, 17-24.	1.9	77
22	Mechanisms of retinoic acid signaling during cardiogenesis. <i>Mechanisms of Development</i> , 2017, 143, 9-19.	1.7	74
23	The Heterotrimeric Protein Go Is Required for the Formation of Heart Epithelium in <i>Drosophila</i> . <i>Journal of Cell Biology</i> , 1999, 145, 1063-1076.	5.2	71
24	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. <i>Developmental Biology</i> , 2008, 313, 25-34.	2.0	62
25	Human pre-valvular endocardial cells derived from pluripotent stem cells recapitulate cardiac pathophysiological valvulogenesis. <i>Nature Communications</i> , 2019, 10, 1929.	12.8	60
26	T-box genes and retinoic acid signaling regulate the segregation of arterial and venous pole progenitor cells in the murine second heart field. <i>Human Molecular Genetics</i> , 2018, 27, 3747-3760.	2.9	59
27	The NK-2 homeobox gene <i>scarecrow (scro)</i> is expressed in pharynx, ventral nerve cord and brain of <i>Drosophila</i> embryos. <i>Mechanisms of Development</i> , 2000, 94, 237-241.	1.7	58
28	Transcriptome analysis of mouse and human sinoatrial node cells reveals a conserved genetic program. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	54
29	<i>Hoxb1</i> regulates proliferation and differentiation of second heart field progenitors in pharyngeal mesoderm and genetically interacts with <i>Hoxa1</i> during cardiac outflow tract development. <i>Developmental Biology</i> , 2015, 406, 247-258.	2.0	48
30	Pericardin, a <i>Drosophila</i> type IV collagen-like protein is involved in the morphogenesis and maintenance of the heart epithelium during dorsal ectoderm closure. <i>Development (Cambridge)</i> , 2002, 129, 3241-53.	2.5	48
31	ISL1 Directly Regulates FGF10 Transcription during Human Cardiac Outflow Formation. <i>PLoS ONE</i> , 2012, 7, e30677.	2.5	46
32	<i>Piezo1</i> is required for outflow tract and aortic valve development.. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 143, 51-62.	1.9	44
33	Hox-dependent coordination of mouse cardiac progenitor cell patterning and differentiation. <i>ELife</i> , 2020, 9, .	6.0	41
34	Genetics and embryological mechanisms of congenital heart diseases. <i>Archives of Cardiovascular Diseases</i> , 2009, 102, 59-63.	1.6	38
35	Expression of <i>Slit</i> and <i>Robo</i> genes in the developing mouse heart. <i>Developmental Dynamics</i> , 2010, 239, 3303-3311.	1.8	38
36	Value of In Vivo T2 Measurement for Myocardial Fibrosis Assessment in Diabetic Mice at 11.75 T. <i>Investigative Radiology</i> , 2012, 47, 319-323.	6.2	34

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37	Krox20 defines a subpopulation of cardiac neural crest cells contributing to arterial valves and bicuspid aortic valve. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	34
38	Cellular interactions during heart morphogenesis in the <i>Drosophila</i> embryo. <i>Biology of the Cell</i> , 1995, 84, 13-24.	2.0	33
39	Disruption of CXCR4 signaling in pharyngeal neural crest cells causes DiGeorge syndrome-like malformations. <i>Development (Cambridge)</i> , 2016, 143, 582-8.	2.5	33
40	The <i>Drosophila</i> Hand gene is required for remodeling of the developing adult heart and midgut during metamorphosis. <i>Developmental Biology</i> , 2007, 311, 287-296.	2.0	30
41	Hox Genes in Cardiovascular Development and Diseases. <i>Journal of Developmental Biology</i> , 2016, 4, 14.	1.7	30
42	Cardiac outflow morphogenesis depends on effects of retinoic acid signaling on multiple cell lineages. <i>Developmental Dynamics</i> , 2016, 245, 388-401.	1.8	30
43	Bmp2 and Notch cooperate to pattern the embryonic endocardium. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	30
44	Asb2±â€œFilamin A Axis Is Essential for Actin Cytoskeleton Remodeling During Heart Development. <i>Circulation Research</i> , 2018, 122, e34-e48.	4.5	29
45	A Retinoic Acid Responsive Hoxa3 Transgene Expressed in Embryonic Pharyngeal Endoderm, Cardiac Neural Crest and a Subdomain of the Second Heart Field. <i>PLoS ONE</i> , 2011, 6, e27624.	2.5	26
46	Conotruncal defects associated with anomalous pulmonary venous connections. <i>Archives of Cardiovascular Diseases</i> , 2009, 102, 105-110.	1.6	25
47	Myocardial Bmp2 gain causes ectopic EMT and promotes cardiomyocyte proliferation and immaturity. <i>Cell Death and Disease</i> , 2018, 9, 399.	6.3	24
48	Cardiogenesis in the <i>Drosophila</i> Model: Control Mechanisms during Early Induction and Diversification of Cardiac Progenitors. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2002, 67, 1-12.	1.1	24
49	Hoxa1 and Hoxb1 are required for pharyngeal arch artery development. <i>Mechanisms of Development</i> , 2017, 143, 1-8.	1.7	23
50	Giant congenital melanocytic nevus with vascular malformation and epidermal cysts associated with a somatic activating mutation in <i>BRAF</i> . <i>Pigment Cell and Melanoma Research</i> , 2018, 31, 437-441.	3.3	22
51	Retinoids and Cardiac Development. <i>Journal of Developmental Biology</i> , 2014, 2, 50-71.	1.7	20
52	Hox and Tale transcription factors in heart development and disease. <i>International Journal of Developmental Biology</i> , 2018, 62, 837-846.	0.6	20
53	Loss of Krox20 results in aortic valve regurgitation and impaired transcriptional activation of fibrillar collagen genes. <i>Cardiovascular Research</i> , 2014, 104, 443-455.	3.8	19
54	Ectopic expression of <i>Hoxb1</i> induces cardiac and craniofacial malformations. <i>Genesis</i> , 2018, 56, e23221.	1.6	18

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55	Outflow Tract Formation—Embryonic Origins of Conotruncal Congenital Heart Disease. <i>Journal of Cardiovascular Development and Disease</i> , 2021, 8, 42.	1.6	18
56	Molecular cloning and embryonic expression of dFKBP59, a novel <i>Drosophila</i> FK506-binding protein. <i>Gene</i> , 2000, 246, 103-109.	2.2	17
57	The homeodomain of Tinman mediates homo- and heterodimerization of NK proteins. <i>Biochemical and Biophysical Research Communications</i> , 2005, 334, 361-369.	2.1	17
58	The $\beta$ 3 tubulin gene is a direct target of bagpipe and biniou in the visceral mesoderm of <i>Drosophila</i> . <i>Mechanisms of Development</i> , 2002, 114, 85-93.	1.7	16
59	Novel ALPK3 mutation in a Tunisian patient with pediatric cardiomyopathy and facio-thoraco-skeletal features. <i>Journal of Human Genetics</i> , 2018, 63, 1077-1082.	2.3	16
60	Reduced aggrecan expression affects cardiac outflow tract development in zebrafish and is associated with bicuspid aortic valve disease in humans. <i>International Journal of Cardiology</i> , 2017, 249, 340-343.	1.7	14
61	The alternatively spliced LRRFIP1 Isoform-1 is a key regulator of the Wnt/ $\beta$ -catenin transcription pathway. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 1142-1152.	4.1	13
62	Development of the Larval Visceral Musculature. , 2006, , 62-78.		11
63	Identification of a peripheral blood gene signature predicting aortic valve calcification. <i>Physiological Genomics</i> , 2020, 52, 563-574.	2.3	11
64	Mesp1 controls the chromatin and enhancer landscapes essential for spatiotemporal patterning of early cardiovascular progenitors. <i>Nature Cell Biology</i> , 2022, 24, 1114-1128.	10.3	11
65	<i>Cre</i> and <i>ERT2</i> knock-in allele: A useful tool to target embryonic and adult cardiac valves. <i>Genesis</i> , 2015, 53, 337-345.	1.6	9
66	Cell history determines the maintenance of transcriptional differences between left and right ventricular cardiomyocytes in the developing mouse heart. <i>Journal of Cell Science</i> , 2003, 116, 5005-5013.	2.0	8
67	<i>FOXC1</i> haploinsufficiency due to 6p25 deletion in a patient with rapidly progressing aortic valve disease. <i>American Journal of Medical Genetics, Part A</i> , 2017, 173, 2489-2493.	1.2	7
68	Identification of two variants in <i>AGRN</i> and <i>RPL3L</i> genes in a patient with catecholaminergic polymorphic ventricular tachycardia suggesting new candidate disease genes and digenic inheritance. <i>Clinical Case Reports (discontinued)</i> , 2022, 10, e05339.	0.5	7
69	Actionable Genes, Core Databases, and Locus-Specific Databases. <i>Human Mutation</i> , 2016, 37, 1299-1307.	2.5	6
70	Multiallelic rare variants support an oligogenic origin of sudden cardiac death in the young. <i>Herz</i> , 2021, 46, 94-102.	1.1	6
71	Side-dependent effect in the response of valve endothelial cells to bidirectional shear stress. <i>International Journal of Cardiology</i> , 2021, 323, 220-228.	1.7	6
72	<i>Mx1</i> haploinsufficiency modifies the Pax9-deficient cardiovascular phenotype. <i>BMC Developmental Biology</i> , 2021, 21, 14.	2.1	6

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73	Anterior Hox Genes in Cardiac Development and Great Artery Patterning. Journal of Cardiovascular Development and Disease, 2014, 1, 3-13.	1.6	5
74	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.	2.5	5
75	Krox20 Regulates Endothelial Nitric Oxide Signaling in Aortic Valve Development and Disease. Journal of Cardiovascular Development and Disease, 2019, 6, 39.	1.6	5
76	Genetic Lineage Tracing Analysis of Anterior Hox Expressing Cells. Methods in Molecular Biology, 2014, 1196, 37-48.	0.9	5
77	Molecular autopsy and clinical family screening in a case of sudden cardiac death reveals <i>ACTN2</i> mutation related to hypertrophic/dilated cardiomyopathy and a novel <i>LZTR1</i> variant associated with Noonan syndrome. Molecular Genetics & Genomic Medicine, 2022, 10, .	1.2	5
78	Krox20 heterozygous mice: A model of aortic regurgitation associated with decreased expression of fibrillar collagen genes. Archives of Cardiovascular Diseases, 2016, 109, 188-198.	1.6	4
79	A severe clinical phenotype of Noonan syndrome with neonatal hypertrophic cardiomyopathy in the second case worldwide with <i>RAF1</i> S259Y neomutation. Genetical Research, 2019, 101, e6.	0.9	4
80	Identification of non-synonymous variations in ROBO1 and GATA5 genes in a family with bicuspid aortic valve disease. Journal of Human Genetics, 2022, , .	2.3	3
81	Clinical insights into a tertiary care center cohort of patients with bicuspid aortic valve. International Journal of Cardiovascular Imaging, 2022, 38, 51-59.	1.5	2
82	Single Cell Approaches to Understand the Earliest Steps in Heart Development. Current Cardiology Reports, 2022, 24, 611-621.	2.9	2
83	La Souris comme modèle d'étude de la morphogenèse du cœur chez les mammifères : origine des myocytes et études d'explants cardiaques. Société De Biologie Journal, 2003, 197, 187-194.	0.3	1
84	An uncommon cause of tricuspid regurgitation: three-dimensional echocardiographic incremental value, surgical and genetic insights. European Journal of Cardio-thoracic Surgery, 2016, 50, 180-182.	1.4	1
85	Hox-Dependent Coordination of Cardiac Cell Patterning and Differentiation. SSRN Electronic Journal, 0, , .	0.4	1
86	Dilated-Left Ventricular Non-Compaction Cardiomyopathy in a Pediatric Case with SPEG Compound Heterozygous Variants. International Journal of Molecular Sciences, 2022, 23, 5205.	4.1	1
87	Myocardial cell lineages in the mammalian embryo: The second heart field. Journal of Molecular and Cellular Cardiology, 2006, 40, 992.	1.9	0
88	Correction: Pax3 and Pax7 have distinct and overlapping functions in adult muscle progenitor cells. Journal of Cell Biology, 2007, 176, 125-125.	5.2	0
89	0174: LRRFip1 and Wnt pathway involvement in mitral valve prolapse. Archives of Cardiovascular Diseases Supplements, 2014, 6, 72.	0.0	0
90	0268 : Involvement of LRRFip1 gene and canonical Wnt pathway in Mitral Valve Prolapse (MVP). Archives of Cardiovascular Diseases Supplements, 2015, 7, 204.	0.0	0

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91	0352: Decrease of Krox20 expression leads to aortic valve dysfunction and thickening of the valve leaflets. Archives of Cardiovascular Diseases Supplements, 2016, 8, 55.	0.0	0
92	Origines génétique et développementale de la bicuspidie aortique. Archives Des Maladies Du Coeur Et Des Vaisseaux - Pratique, 2017, 2017, 22-26.	0.0	0
93	Analysis of HOXB1 gene in a cohort of patients with sporadic ventricular septal defect. Molecular Biology Reports, 2018, 45, 1507-1513.	2.3	0