StÃ©phane Zaffran

List of Publications by Year
in descending order

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	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
2	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. Clinical Case Reports (discontinued), 2022, 10, e05339.	0.5	7
3	Single Cell Approaches to Understand the Earliest Steps in Heart Development. Current Cardiology Reports, 2022, 24, 611-621.	2.9	2
4	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
5	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
6	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
7	Mesp1 controls the chromatin and enhancer landscapes essential for spatiotemporal patterning of early cardiovascular progenitors. Nature Cell Biology, 2022, 24, 1114-1128.	10.3	11
8	Multiallelic rare variants support an oligogenic origin of sudden cardiac death in the young. Herz, 2021, 46, 94-102.	1.1	6
9	Side-dependent effect in the response of valve endothelial cells to bidirectional shear stress. International Journal of Cardiology, 2021, 323, 220-228.	1.7	6
10	Outflow Tract Formationâ€"Embryonic Origins of Conotruncal Congenital Heart Disease. Journal of Cardiovascular Development and Disease, 2021, 8, 42.	1.6	18
11	A roadmap for the Human Developmental Cell Atlas. Nature, 2021, 597, 196-205.	27.8	114
12	Msx1 haploinsufficiency modifies the Pax9-deficient cardiovascular phenotype. BMC Developmental Biology, 2021, 21, 14.	2.1	6
13	Identification of a peripheral blood gene signature predicting aortic valve calcification. Physiological Genomics, 2020, 52, 563-574.	2.3	11
14	Piezo1 is required for outflow tract and aortic valve development.. Journal of Molecular and Cellular Cardiology, 2020, 143, 51-62.	1.9	44
15	Hox-dependent coordination of mouse cardiac progenitor cell patterning and differentiation. ELife, 2020, 9, .	6.0	41
16	Krox20 Regulates Endothelial Nitric Oxide Signaling in Aortic Valve Development and Disease. Journal of Cardiovascular Development and Disease, 2019, 6, 39.	1.6	5
17	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
18	Human pre-valvular endocardial cells derived from pluripotent stem cells recapitulate cardiac pathophysiological valvulogenesis. Nature Communications, 2019, 10, 1929.	12.8	60

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19	Transcriptome analysis of mouse and human sinoatrial node cells reveals a conserved genetic program. Development (Cambridge), 2019, 146, .	2.5	54
20	Krox20 defines a subpopulation of cardiac neural crest cells contributing to arterial valves and bicuspid aortic valve. Development (Cambridge), 2018, 145, .	2.5	34
21	Asb2Î±â€"Filamin A Axis Is Essential for Actin Cytoskeleton Remodeling During Heart Development. Circulation Research, 2018, 122, e34-e48.	4.5	29
22	Giant congenital melanocytic nevus with vascular malformation and epidermal cysts associated with a somatic activating mutation in <i><scp>BRAF</scp></i>. Pigment Cell and Melanoma Research, 2018, 31, 437-441.	3.3	22
23	Myocardial Bmp2 gain causes ectopic EMT and promotes cardiomyocyte proliferation and immaturity. Cell Death and Disease, 2018, 9, 399.	6.3	24
24	Ectopic expression of <i>Hoxb1</i> induces cardiac and craniofacial malformations. Genesis, 2018, 56, e23221.	1.6	18
25	Hox and Tale transcription factors in heart development and disease. International Journal of Developmental Biology, 2018, 62, 837-846.	0.6	20
26	Bmp2 and Notch cooperate to pattern the embryonic endocardium. Development (Cambridge), 2018, 145, .	2.5	30
27	Novel ALPK3 mutation in a Tunisian patient with pediatric cardiomyopathy and facio-thoraco-skeletal features. Journal of Human Genetics, 2018, 63, 1077-1082.	2.3	16
28	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.	2.9	59
29	Analysis of HOXB1 gene in a cohort of patients with sporadic ventricular septal defect. Molecular Biology Reports, 2018, 45, 1507-1513.	2.3	0
30	Origines gÃ©nÃ©tique et dÃ©veloppementale de la bicuspidie aortique. Archives Des Maladies Du Coeur Et Des Vaisseaux - Pratique, 2017, 2017, 22-26.	0.0	0
31	The alternatively spliced LRRFIP1 Isoform-1 is a key regulator of the Wnt/Î²-catenin transcription pathway. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1142-1152.	4.1	13
32	Mechanisms of retinoic acid signaling during cardiogenesis. Mechanisms of Development, 2017, 143, 9-19.	1.7	74
33	Hoxa1 and Hoxb1 are required for pharyngeal arch artery development. Mechanisms of Development, 2017, 143, 1-8.	1.7	23
34	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.	1.7	14
35	<i>FOXC1</i> 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.	1.2	7
36	Hox Genes in Cardiovascular Development and Diseases. Journal of Developmental Biology, 2016, 4, 14.	1.7	30

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37	Cardiac outflow morphogenesis depends on effects of retinoic acid signaling on multiple cell lineages. Developmental Dynamics, 2016, 245, 388-401.	1.8	30
38	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
39	Actionable Genes, Core Databases, and Locus-Specific Databases. Human Mutation, 2016, 37, 1299-1307.	2.5	6
40	WES/WGS Reporting of Mutations from Cardiovascular â€œActionableâ€•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
41	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
42	Disruption of CXCR4 signaling in pharyngeal neural crest cells causes DiGeorge syndrome-like malformations. Development (Cambridge), 2016, 143, 582-8.	2.5	33
43	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
44	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
45	<scp><i>M</i></scp><i>sx1^{cre}</i><scp><i>^{ERT}</i></scp><i>²</i> knockâ€in allele: A useful tool to target embryonic and adult cardiac valves. Genesis, 2015, 53, 337-345.	1.6	9
46	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, 247-258.	2.0	48
47	Loss of Krox20 results in aortic valve regurgitation and impaired transcriptional activation of fibrillar collagen genes. Cardiovascular Research, 2014, 104, 443-455.	3.8	19
48	Tbx1 Coordinates Addition of Posterior Second Heart Field Progenitor Cells to the Arterial and Venous Poles of the Heart. Circulation Research, 2014, 115, 790-799.	4.5	105
49	0174: LRRFip1 and Wnt pathway involvement in mitral valve prolapse. Archives of Cardiovascular Diseases Supplements, 2014, 6, 72.	0.0	0
50	Anterior Hox Genes in Cardiac Development and Great Artery Patterning. Journal of Cardiovascular Development and Disease, 2014, 1, 3-13.	1.6	5
51	Retinoids and Cardiac Development. Journal of Developmental Biology, 2014, 2, 50-71.	1.7	20
52	Genetic Lineage Tracing Analysis of Anterior Hox Expressing Cells. Methods in Molecular Biology, 2014, 1196, 37-48.	0.9	5
53	<i>Fibroblast growth factor 10</i> 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, 18273-18280.	7.1	109
54	Value of In Vivo T2 Measurement for Myocardial Fibrosis Assessment in Diabetic Mice at 11.75 T. Investigative Radiology, 2012, 47, 319-323.	6.2	34

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55	Early cardiac development: a view from stem cells to embryos. Cardiovascular Research, 2012, 96, 352-362.	3.8	115
56	ISL1 Directly Regulates FGF10 Transcription during Human Cardiac Outflow Formation. PLoS ONE, 2012, 7, e30677.	2.5	46
57	New developments in the second heart field. Differentiation, 2012, 84, 17-24.	1.9	77
58	Hox genes define distinct progenitor sub-domains within the second heart field. Developmental Biology, 2011, 353, 266-274.	2.0	144
59	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.	2.5	26
60	Expression of <i>Slit</i> and <i>Robo</i> genes in the developing mouse heart. Developmental Dynamics, 2010, 239, 3303-3311.	1.8	38
61	Decreased Levels of Embryonic Retinoic Acid Synthesis Accelerate Recovery From Arterial Growth Delay in a Mouse Model of DiGeorge Syndrome. Circulation Research, 2010, 106, 686-694.	4.5	82
62	Endogenous retinoic acid regulates cardiac progenitor differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9234-9239.	7.1	96
63	Conotruncal defects associated with anomalous pulmonary venous connections. Archives of Cardiovascular Diseases, 2009, 102, 105-110.	1.6	25
64	Genetics and embryological mechanisms of congenital heart diseases. Archives of Cardiovascular Diseases, 2009, 102, 59-63.	1.6	38
65	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, 1157-1167.	2.5	134
66	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
67	Retinoic acid deficiency alters second heart field formation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2913-2918.	7.1	186
68	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
69	The Drosophila Hand gene is required for remodeling of the developing adult heart and midgut during metamorphosis. Developmental Biology, 2007, 311, 287-296.	2.0	30
70	An Nkx2-5/Bmp2/Smad1 Negative Feedback Loop Controls Heart Progenitor Specification and Proliferation. Cell, 2007, 128, 947-959.	28.9	470
71	Pax3 and Pax7 have distinct and overlapping functions in adult muscle progenitor cells. Journal of Cell Biology, 2006, 172, 91-102.	5.2	599
72	Myocardial cell lineages in the mammalian embryo: The second heart field. Journal of Molecular and Cellular Cardiology, 2006, 40, 992.	1.9	0

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73	Rotation of the Myocardial Wall of the Outflow Tract Is Implicated in the Normal Positioning of the Great Arteries. Circulation Research, 2006, 98, 421-428.	4.5	190
74	Congenital heart defects in Fgfr2-IIIb and Fgf10 mutant mice. Cardiovascular Research, 2006, 71, 50-60.	3.8	86
75	Cardioblast-intrinsic Tinman activity controls proper diversification and differentiation of myocardial cells in Drosophila. Development (Cambridge), 2006, 133, 4073-4083.	2.5	86
76	Development of the Larval Visceral Musculature. , 2006, , 62-78.		11
77	Building the mammalian heart from two sources of myocardial cells. Nature Reviews Genetics, 2005, 6, 826-835.	16.3	1,051
78	<i>Fgf10</i>expression identifies parabronchial smooth muscle cell progenitors and is required for their entry into the smooth muscle cell lineage. Development (Cambridge), 2005, 132, 2157-2166.	2.5	168
79	Direct Isolation of Satellite Cells for Skeletal Muscle Regeneration. Science, 2005, 309, 2064-2067.	12.6	939
80	The homeodomain of Tinman mediates homo- and heterodimerization of NK proteins. Biochemical and Biophysical Research Communications, 2005, 334, 361-369.	2.1	17
81	Right Ventricular Myocardium Derives From the Anterior Heart Field. Circulation Research, 2004, 95, 261-268.	4.5	334
82	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, 5005-5013.	2.0	8
83	La Souris comme modÃ¨le dâ€™Ã©tude de la morphogenÃ¨se du cÅ“ur chez les mammifÃ¨res : origine des myocytes et Ã©tudes dâ€™explants cardiaques. SociÃ©tÃ© De Biologie Journal, 2003, 197, 187-194.	0.3	1
84	Early Signals in Cardiac Development. Circulation Research, 2002, 91, 457-469.	4.5	272
85	The Î²3 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	16
86	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.	1.1	24
87	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.	2.5	48
88	<i>biniou</i> (<i>FoxF</i>), a central component in a regulatory network controlling visceral mesoderm development and midgut morphogenesis in <i>Drosophila</i>. Genes and Development, 2001, 15, 2900-2915.	5.9	133
89	Molecular cloning and embryonic expression of dFKBP59, a novel Drosophila FK506-binding protein. Gene, 2000, 246, 103-109.	2.2	17
90	The NK-2 homeobox gene scarecrow (scro) is expressed in pharynx, ventral nerve cord and brain of Drosophila embryos. Mechanisms of Development, 2000, 94, 237-241.	1.7	58

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91	The Heterotrimeric Protein Go Is Required for the Formation of Heart Epithelium in Drosophila. Journal of Cell Biology, 1999, 145, 1063-1076.	5.2	71
92	Cellular interactions during heart morphogenesis in the Drosophila embryo. Biology of the Cell, 1995, 84, 13-24.	2.0	33
93	<i>Hox</i>-Dependent Coordination of Cardiac Cell Patterning and Differentiation. SSRN Electronic Journal, 0, , .	0.4	1