## Jeroen Bakkers

List of Publications by Year in descending order

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50276 58581 7,621 111 46 82 citations h-index g-index papers 131 131 131 11358 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Asymmetric Hapln1a drives regionalized cardiac ECM expansion and promotes heart morphogenesis in zebrafish development. Cardiovascular Research, 2022, 118, 226-240.	3.8	23
2	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC Working Group on Myocardial Function and the ESC Working Group on Cellular Biology of the Heart. Cardiovascular Research, 2022, 118, 3016-3051.	3.8	30
3	Common Genetic Variants Contribute to Risk of Transposition of the Great Arteries. Circulation Research, 2022, 130, 166-180.	4.5	15
4	The zebrafish cohesin protein Sgo1 is required for cardiac function and eye development. Developmental Dynamics, 2022, , .	1.8	3
5	Single-cell profiling of transcriptome and histone modifications with EpiDamID. Molecular Cell, 2022, 82, 1956-1970.e14.	9.7	28
6	Recurrent de novo missense variants across multiple histone H4 genes underlie a neurodevelopmental syndrome. American Journal of Human Genetics, 2022, 109, 750-758.	6.2	13
7	Inflammatory response in hematopoietic stem and progenitor cells triggered by activating SHP2 mutations evokes blood defects. ELife, 2022, $11$ , .	6.0	9
8	Is zebrafish heart regeneration "complete� Lineage-restricted cardiomyocytes proliferate to pre-injury numbers but some fail to differentiate in fibrotic hearts. Developmental Biology, 2021, 471, 106-118.	2.0	11
9	Loss of sdhb in zebrafish larvae recapitulates human paraganglioma characteristics. Endocrine-Related Cancer, 2021, 28, 65-77.	3.1	9
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10	Macrophages provide a transient muscle stem cell niche via NAMPT secretion. Nature, 2021, 591, 281-287.	27.8	111
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11 12	Macrophages provide a transient muscle stem cell niche via NAMPT secretion. Nature, 2021, 591, 281-287.  The zebrafish <i>grime</i> mutant uncovers an evolutionarily conserved role for Tmem161b in the control of cardiac rhythm. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .  A Heterozygous Mutation in Cardiac Troponin T Promotes Ca2+ Dysregulation and Adult Cardiomyopathy in Zebrafish. Journal of Cardiovascular Development and Disease, 2021, 8, 46.  Cardiac regenerative capacity: an evolutionary afterthought? Cellular and Molecular Life Sciences,	7.1	12 8
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19	Istaroxime treatment ameliorates calcium dysregulation in a zebrafish model of phospholamban R14del cardiomyopathy. Nature Communications, 2021, 12, 7151.	12.8	18
20	A de novo variant in the human HIST1H4J gene causes a syndrome analogous to the HIST1H4C-associated neurodevelopmental disorder. European Journal of Human Genetics, 2020, 28, 674-678.	2.8	11
21	Pyridox(am)ine 5′-phosphate oxidase (PNPO) deficiency in zebrafish results in fatal seizures and metabolic aberrations. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165607.	3.8	17
22	Genome-Wide Analysis Identifies an Essential Human TBX3 Pacemaker Enhancer. Circulation Research, 2020, 127, 1522-1535.	4.5	22
23	T-box transcription factor 3 governs a transcriptional program for the function of the mouse atrioventricular conduction system. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18617-18626.	7.1	19
24	Zebrafish prrx1a mutants have normal hearts. Nature, 2020, 585, E14-E16.	27.8	15
25	Notch and Bmp signaling pathways act coordinately during the formation of the proepicardium. Developmental Dynamics, 2020, 249, 1455-1469.	1.8	8
26	Conserved <i>NPPB</i> + Border Zone Switches From MEF2- to AP-1–Driven Gene Program. Circulation, 2019, 140, 864-879.	1.6	70
27	Assessment of the Most Optimal Control Tissue for Intracranial Aneurysm Gene Expression Studies. Stroke, 2019, 50, 2933-2936.	2.0	6
28	Identification and Characterization of a Transcribed Distal Enhancer Involved in Cardiac Kcnh2 Regulation. Cell Reports, 2019, 28, 2704-2714.e5.	6.4	15
29	ABCC9-related Intellectual disability Myopathy Syndrome is a KATP channelopathy with loss-of-function mutations in ABCC9. Nature Communications, 2019, 10, 4457.	12.8	31
30	Molecular Signature of CAID Syndrome: Noncanonical Roles of SGO1 in Regulation of TGF- $\hat{1}^2$ Signaling and Epigenomics. Cellular and Molecular Gastroenterology and Hepatology, 2019, 7, 411-431.	4.5	11
31	Genetic variation in <i>GNB5</i> causes bradycardia by increasing IK,ACh augmenting cholinergic response. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	19
32	Chromatin Conformation Links Putative Enhancers in Intracranial Aneurysm–Associated Regions to Potential Candidate Genes. Journal of the American Heart Association, 2019, 8, e011201.	3.7	13
33	Loss of the Polycomb group protein Rnf2 results in derepression of tbx-transcription factors and defects in embryonic and cardiac development. Scientific Reports, 2019, 9, 4327.	3.3	18
34	Identification of human D lactate dehydrogenase deficiency. Nature Communications, 2019, 10, 1477.	12.8	62
35	GLS hyperactivity causes glutamate excess, infantile cataract and profound developmental delay. Human Molecular Genetics, 2019, 28, 96-104.	2.9	23
36	Single-cell analysis uncovers that metabolic reprogramming by ErbB2 signaling is essential for cardiomyocyte proliferation in the regenerating heart. ELife, 2019, 8, .	6.0	162

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37	Variants in members of the cadherin–catenin complex, CDH1 and CTNND1, cause blepharocheilodontic syndrome. European Journal of Human Genetics, 2018, 26, 210-219.	2.8	34
38	MUSCLEMOTION. Circulation Research, 2018, 122, e5-e16.	4.5	235
39	Intracranial Aneurysm–Associated Single-Nucleotide Polymorphisms Alter Regulatory DNA in the Human Circle of Willis. Stroke, 2018, 49, 447-453.	2.0	16
40	Optogenetic sensors in the zebrafish heart: a novel in vivo electrophysiological tool to study cardiac arrhythmogenesis. Theranostics, 2018, 8, 4750-4764.	10.0	38
41	Effective CRISPR/Cas9-based nucleotide editing in zebrafish to model human genetic cardiovascular disorders. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	69
42	Spatially resolved RNA-sequencing of the embryonic heart identifies a role for Wnt/ $\hat{l}^2$ -catenin signaling in autonomic control of heart rate. ELife, 2018, 7, .	6.0	41
43	Shaping up with morphogen gradients. Nature Cell Biology, 2018, 20, 998-999.	10.3	3
44	Tmem2 Regulates Embryonic Vegf Signaling by Controlling Hyaluronic Acid Turnover. Developmental Cell, 2017, 40, 123-136.	7.0	63
45	Tmem2 Regulates Embryonic Vegf Signaling by Controlling Hyaluronic Acid Turnover. Developmental Cell, 2017, 40, 421.	7.0	12
46	Germline mutations affecting the histone H4 core cause a developmental syndrome by altering DNA damage response and cell cycle control. Nature Genetics, 2017, 49, 1642-1646.	21.4	35
47	On the Evolution of the Cardiac Pacemaker. Journal of Cardiovascular Development and Disease, 2017, 4, 4.	1.6	33
48	Twists and turns. ELife, 2017, 6, .	6.0	0
49	A Zebrafish Loss-of-Function Model for Human CFAP53 Mutations Reveals Its Specific Role in Laterality Organ Function. Human Mutation, 2016, 37, 194-200.	2.5	25
50	Normal formation of a vertebrate body plan and loss of tissue maintenance in the absence of ezh2. Scientific Reports, 2016, 6, 24658.	3.3	36
51	$\hat{l}\pm E$ -catenin-dependent mechanotransduction is essential for proper convergent extension in zebrafish. Biology Open, 2016, 5, 1461-1472.	1.2	28
52	Tomo-seq. Methods in Cell Biology, 2016, 135, 299-307.	1,1	46
53	GNB5 Mutations Cause an Autosomal-Recessive Multisystem Syndrome with Sinus Bradycardia and Cognitive Disability. American Journal of Human Genetics, 2016, 99, 704-710.	6.2	58
54	Rare novel variants in the ZIC3 gene cause X-linked heterotaxy. European Journal of Human Genetics, 2016, 24, 1783-1791.	2.8	15

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55	Heterozygous <i> KIDINS220   ARMS &lt;   i &gt; nonsense variants cause spastic paraplegia, intellectual disability, nystagmus, and obesity. Human Molecular Genetics, 2016, 25, 2158-2167.</i>	2.9	37
56	Spatially Resolved Genome-wide Transcriptional Profiling Identifies BMP Signaling as Essential Regulator of Zebrafish Cardiomyocyte Regeneration. Developmental Cell, 2016, 36, 36-49.	7.0	176
57	Glypican4 promotes cardiac specification and differentiation by attenuating canonical Wnt and Bmp signaling. Development (Cambridge), 2015, 142, 1767-1776.	2.5	42
58	Nodal Signaling Range Is Regulated by Proprotein Convertase-Mediated Maturation. Developmental Cell, 2015, 32, 631-639.	7.0	17
59	Animal and in silico models for the study of sarcomeric cardiomyopathies. Cardiovascular Research, 2015, 105, 439-448.	3.8	45
60	Recurrent Mutations in the Basic Domain of TWIST2 Cause Ablepharon Macrostomia and Barber-Say Syndromes. American Journal of Human Genetics, 2015, 97, 99-110.	6.2	61
61	Developmental Alterations in Heart Biomechanics and Skeletal Muscle Function in Desmin Mutants Suggest an Early Pathological Root for Desminopathies. Cell Reports, 2015, 11, 1564-1576.	6.4	42
62	GLUT12 deficiency during early development results in heart failure and a diabetic phenotype in zebrafish. Journal of Endocrinology, 2015, 224, 1-15.	2.6	32
63	Noonan and LEOPARD syndrome Shp2 variants induce heart displacement defects in zebrafish. Development (Cambridge), 2014, 141, 1961-1970.	2.5	47
64	Genome-wide RNA Tomography in the Zebrafish Embryo. Cell, 2014, 159, 662-675.	28.9	248
65	Mutations in SGOL1 cause a novel cohesinopathy affecting heart and gut rhythm. Nature Genetics, 2014, 46, 1245-1249.	21.4	98
66	Ubiad1 Is an Antioxidant Enzyme that Regulates eNOS Activity by CoQ10 Synthesis. Cell, 2013, 152, 504-518.	28.9	176
67	Hyaluronan: A critical regulator of endothelial-to-mesenchymal transition during cardiac valve formation. Trends in Cardiovascular Medicine, 2013, 23, 135-142.	4.9	30
68	A Nodal-independent and tissue-intrinsic mechanism controls heart-looping chirality. Nature Communications, 2013, 4, 2754.	12.8	102
69	On the robustness of germ cell migration and microRNA-mediated regulation of chemokine signaling. Nature Genetics, 2013, 45, 1264-1265.	21.4	5
70	Revealing details: whole mount microRNA <i>in situ</i> hybridization protocol for zebrafish embryos and adult tissues. Biology Open, 2012, 1, 566-569.	1.2	22
71	UDP-glucose Dehydrogenase Polymorphisms from Patients with Congenital Heart Valve Defects Disrupt Enzyme Stability and Quaternary Assembly. Journal of Biological Chemistry, 2012, 287, 32708-32716.	3.4	18
72	Bmp Signaling Exerts Opposite Effects on Cardiac Differentiation. Circulation Research, 2012, 110, 578-587.	4.5	83

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73	Identification and Regulation of a Molecular Module for Bleb-Based Cell Motility. Developmental Cell, 2012, 23, 210-218.	7.0	61
74	Genetic variation in T-box binding element functionally affects SCN5A/SCN10A enhancer. Journal of Clinical Investigation, 2012, 122, 2519-2530.	8.2	167
75	Identification and Functional Characterization of Cardiac Pacemaker Cells in Zebrafish. PLoS ONE, 2012, 7, e47644.	2.5	154
76	Macrophage development from HSCs requires PU.1-coordinated microRNA expression. Blood, 2011, 118, 2275-2284.	1.4	113
77	ALK2 mutation in a patient with Down's syndrome and a congenital heart defect. European Journal of Human Genetics, 2011, 19, 389-393.	2.8	33
78	Sox4 mediates Tbx3 transcriptional regulation of the gap junction protein Cx43. Cellular and Molecular Life Sciences, 2011, 68, 3949-3961.	5.4	22
79	Wnt signaling regulates atrioventricular canal formation upstream of <i>BMP</i> and <i>Tbx2</i> Birth Defects Research Part A: Clinical and Molecular Teratology, 2011, 91, 435-440.	1.6	59
80	Zebrafish as a model to study cardiac development and human cardiac disease. Cardiovascular Research, 2011, 91, 279-288.	3.8	518
81	Transmembrane protein 2 (Tmem2) is required to regionally restrict atrioventricular canal boundary and endocardial cushion development. Development (Cambridge), 2011, 138, 4193-4198.	2.5	48
82	MicroRNA-23 Restricts Cardiac Valve Formation by Inhibiting <i>Has2</i> and Extracellular Hyaluronic Acid Production. Circulation Research, 2011, 109, 649-657.	4.5	108
83	Bmp and Nodal Independently Regulate lefty1 Expression to Maintain Unilateral Nodal Activity during Left-Right Axis Specification in Zebrafish. PLoS Genetics, 2011, 7, e1002289.	3.5	45
84	Genetics of Congenital Heart Defects: A Candidate Gene Approach. Trends in Cardiovascular Medicine, 2010, 20, 124-128.	4.9	13
85	CHAP is a newly identified Z-disc protein essential for heart and skeletal muscle function. Journal of Cell Science, 2010, 123, 1141-1150.	2.0	53
86	Distinct phases of cardiomyocyte differentiation regulate growth of the zebrafish heart. Development (Cambridge), 2009, 136, 1633-1641.	2.5	234
87	Dominant-Negative <i>ALK2</i> Allele Associates With Congenital Heart Defects. Circulation, 2009, 119, 3062-3069.	1.6	97
88	Metastatic behaviour of primary human tumours in a zebrafish xenotransplantation model. BMC Cancer, 2009, 9, 128.	2.6	209
89	Shaping the zebrafish heart: From left–right axis specification to epithelial tissue morphogenesis. Developmental Biology, 2009, 330, 213-220.	2.0	55
90	Genes in congenital heart disease: atrioventricular valve formation. Basic Research in Cardiology, 2008, 103, 216-227.	5.9	45

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91	Two novel type II receptors mediate BMP signalling and are required to establish left–right asymmetry in zebrafish. Developmental Biology, 2008, 315, 55-71.	2.0	54
92	Zebrafish integrin-linked kinase is required in skeletal muscles for strengthening the integrin–ECM adhesion complex. Developmental Biology, 2008, 318, 92-101.	2.0	95
93	Distinct functions for ERK1 and ERK2 in cell migration processes during zebrafish gastrulation. Developmental Biology, 2008, 319, 370-383.	2.0	61
94	Rotation and Asymmetric Development of the Zebrafish Heart Requires Directed Migration of Cardiac Progenitor Cells. Developmental Cell, 2008, 14, 287-297.	7.0	109
95	Early Endocardial Morphogenesis Requires Scl/Tal1. PLoS Genetics, 2007, 3, e140.	3.5	144
96	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:	1.6	206
97	Zebrafish Bmp4 regulates left–right asymmetry at two distinct developmental time points. Developmental Biology, 2007, 305, 577-588.	2.0	147
98	The Bmp Gradient of the Zebrafish GastrulaÂGuidesÂMigrating Lateral CellsÂbyÂRegulating Cell-Cell Adhesion. Current Biology, 2007, 17, 475-487.	3.9	131
99	Zebrafish cypher is important for somite formation and heart development. Developmental Biology, 2006, 299, 356-372.	2.0	48
100	Galectin-1 is essential in tumor angiogenesis and is a target for antiangiogenesis therapy. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15975-15980.	7.1	424
101	Destabilization of & Destapilization of wamp; Delta; Np63& Destapilization upc9-Mediated Sumoylation, and Its Implications on Dorsoventral Patterning of the Zebrafish Embryo. Cell Cycle, 2005, 4, 790-800.	2.6	69
102	Essential role of BCL9-2 in the switch between $\hat{A}$ -catenin's adhesive and transcriptional functions. Genes and Development, 2004, 18, 2225-2230.	5.9	294
103	Has2 is required upstream of Rac1 to govern dorsal migration of lateral cells during zebrafish gastrulation. Development (Cambridge), 2004, 131, 525-537.	2.5	127
104	Fgf signaling induces posterior neuroectoderm independently of Bmp signaling inhibition. Developmental Dynamics, 2004, 231, 750-757.	1.8	49
105	The ankyrin repeat protein Diversin recruits Casein kinase lepsilon to the beta -catenin degradation complex and acts in both canonical Wnt and Wnt/JNK signaling. Genes and Development, 2002, 16, 2073-2084.	5.9	181
106	Zebrafish Î"Np63 Is a Direct Target of Bmp Signaling and Encodes a Transcriptional Repressor Blocking Neural Specification in the Ventral Ectoderm. Developmental Cell, 2002, 2, 617-627.	7.0	217
107	Morpholino phenocopies ofthe swirl, snailhouse, somitabun, minifin, silberblick, and pipetail mutations. Genesis, 2001, 30, 190-194.	1.6	102
108	Chitin Oligosaccharide Synthesis by Rhizobia and Zebrafish Embryos Starts by Glycosyl Transfer to O4 of the Reducing-Terminal Residueâ€. Biochemistry, 1999, 38, 4045-4052.	2.5	60

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109	Function of chitin oligosaccharides in plant and animal development. , 1999, 87, 71-83.		15
110	Expression of Rhizobium Chitin Oligosaccharide Fucosyltransferase in Zebrafish Embryos Disrupts Normal Developmenta,. Annals of the New York Academy of Sciences, 1998, 842, 49-54.	3.8	6
111	An important developmental role for oligosaccharides during early embryogenesis of cyprinid fish. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 7982-7986.	7.1	77