

# Antoine A F De Vries

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

1,608  
citations

361413

20  
h-index

315739

38  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2367  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human-iPSC-Derived Cardiac Stromal Cells Enhance Maturation in 3D Cardiac Microtissues and Reveal Non-cardiomyocyte Contributions to Heart Disease. <i>Cell Stem Cell</i> , 2020, 26, 862-879.e11.	11.1	337
2	Epicardial Cells of Human Adults Can Undergo an Epithelial-to-Mesenchymal Transition and Obtain Characteristics of Smooth Muscle Cells In Vitro. <i>Stem Cells</i> , 2007, 25, 271-278.	3.2	160
3	Light-induced termination of spiral wave arrhythmias by optogenetic engineering of atrial cardiomyocytes. <i>Cardiovascular Research</i> , 2014, 104, 194-205.	3.8	108
4	Ejection of damaged mitochondria and their removal by macrophages ensure efficient thermogenesis in brown adipose tissue. <i>Cell Metabolism</i> , 2022, 34, 533-548.e12.	16.2	91
5	DNA damage-induced PARP1 activation confers cardiomyocyte dysfunction through NAD <sup>+</sup> depletion in experimental atrial fibrillation. <i>Nature Communications</i> , 2019, 10, 1307.	12.8	85
6	Optogenetic termination of ventricular arrhythmias in the whole heart: towards biological cardiac rhythm management. <i>European Heart Journal</i> , 2017, 38, ehw574.	2.2	82
7	Human mesenchymal stem cells ectopically expressing full-length dystrophin can complement Duchenne muscular dystrophy myotubes by cell fusion. <i>Human Molecular Genetics</i> , 2006, 15, 213-221.	2.9	77
8	Identification of atrial fibrillation associated genes and functional non-coding variants. <i>Nature Communications</i> , 2019, 10, 4755.	12.8	64
9	In vitro epithelial-to-mesenchymal transformation in human adult epicardial cells is regulated by TGF $\beta$ <sup>2</sup> -signaling and WT1. <i>Basic Research in Cardiology</i> , 2011, 106, 829-847.	5.9	63
10	Localized Optogenetic Targeting of Rotors in Atrial Cardiomyocyte Monolayers. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017, 10, .	4.8	50
11	An automated hybrid bioelectronic system for autogenous restoration of sinus rhythm in atrial fibrillation. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	50
12	Engineered 3D vessel-on-chip using hiPSC-derived endothelial- and vascular smooth muscle cells. <i>Stem Cell Reports</i> , 2021, 16, 2159-2168.	4.8	42
13	Antiproliferative treatment of myofibroblasts prevents arrhythmias in vitro by limiting myofibroblast-induced depolarization. <i>Cardiovascular Research</i> , 2011, 90, 295-304.	3.8	33
14	Identification of Functional Variant Enhancers Associated With Atrial Fibrillation. <i>Circulation Research</i> , 2020, 127, 229-243.	4.5	33
15	Gap Junctional Coupling with Cardiomyocytes is Necessary but Not Sufficient for Cardiomyogenic Differentiation of Cocultured Human Mesenchymal Stem Cells. <i>Stem Cells</i> , 2012, 30, 1236-1245.	3.2	28
16	Cardiomyocyte-myofibroblast contact dynamism is modulated by connexin43. <i>FASEB Journal</i> , 2019, 33, 10453-10468.	0.5	28
17	MicroRNA-499a-5p Promotes Differentiation of Human Bone Marrow-Derived Mesenchymal Stem Cells to Cardiomyocytes. <i>Applied Biochemistry and Biotechnology</i> , 2018, 186, 245-255.	2.9	26
18	Allosteric Modulation of K <sub>v</sub> 11.1 (hERG) Channels Protects Against Drug-Induced Ventricular Arrhythmias. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016, 9, e003439.	4.8	24

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19	Generation and primary characterization of iAM-1, a versatile new line of conditionally immortalized atrial myocytes with preserved cardiomyogenic differentiation capacity. <i>Cardiovascular Research</i> , 2018, 114, 1848-1859.	3.8	22
20	Multicellular In vitro Models of Cardiac Arrhythmias: Focus on Atrial Fibrillation. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 43.	2.4	21
21	Overexpression of MicroRNA-148b-3p stimulates osteogenesis of human bone marrow-derived mesenchymal stem cells: the role of MicroRNA-148b-3p in osteogenesis. <i>BMC Medical Genetics</i> , 2019, 20, 117.	2.1	17
22	A novel isoform of myosin 18A (Myo18A <sup>Δ3</sup> ) is an essential sarcomeric protein in mouse heart. <i>Journal of Biological Chemistry</i> , 2019, 294, 7202-7218.	3.4	17
23	SARS-CoV-2/COVID-19: a primer for cardiologists. <i>Netherlands Heart Journal</i> , 2020, 28, 366-383.	0.8	17
24	Conditional immortalization of human atrial myocytes for the generation of in vitro models of atrial fibrillation. <i>Nature Biomedical Engineering</i> , 2022, 6, 389-402.	22.5	16
25	Renin-angiotensin system inhibition in COVID-19 patients. <i>Netherlands Heart Journal</i> , 2020, 28, 396-405.	0.8	15
26	A high-throughput drug screening strategy against coronaviruses. <i>International Journal of Infectious Diseases</i> , 2021, 103, 300-304.	3.3	14
27	Optical ventricular cardioversion by local optogenetic targeting and LED implantation in a cardiomyopathic rat model. <i>Cardiovascular Research</i> , 2022, 118, 2293-2303.	3.8	12
28	Optogenetic Engineering of Atrial Cardiomyocytes. <i>Methods in Molecular Biology</i> , 2016, 1408, 319-331.	0.9	12
29	Paradoxical Onset of Arrhythmic Waves from Depolarized Areas in Cardiac Tissue Due to Curvature-Dependent Instability. <i>Physical Review X</i> , 2018, 8, 021077.	8.9	9
30	Conditionally immortalized brown preadipocytes can switch between proliferative and differentiated states. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 158511.	2.4	8
31	Constitutively Active Acetylcholine-Dependent Potassium Current Increases Atrial Defibrillation Threshold by Favoring Post-Shock Re-Initiation. <i>Scientific Reports</i> , 2015, 5, 15187.	3.3	7
32	Fast Optical Investigation of Cardiac Electrophysiology by Parallel Detection in Multiwell Plates. <i>Frontiers in Physiology</i> , 2021, 12, 692496.	2.8	7
33	Sbk2, a Newly Discovered Atrium-Enriched Regulator of Sarcomere Integrity. <i>Circulation Research</i> , 2022, 131, 24-41.	4.5	5
34	T-Box20 inhibits osteogenic differentiation in adipose-derived human mesenchymal stem cells: the role of T-Box20 on osteogenesis. <i>Journal of Biological Research</i> , 2019, 26, 8.	2.1	4
35	The Effects of Repetitive Use and Pathological Remodeling on Channelrhodopsin Function in Cardiomyocytes. <i>Frontiers in Physiology</i> , 2021, 12, 710020.	2.8	4
36	Cardiac Anisotropy, Regeneration, and Rhythm. <i>Circulation Research</i> , 2014, 115, e6-7.	4.5	3

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37	Forced fusion of human ventricular scar cells with cardiomyocytes suppresses arrhythmogenicity in a co-culture model. <i>Cardiovascular Research</i> , 2015, 107, 601-612.	3.8	3
38	P1229 Massive expansion of native human atrial cardiomyocytes through immortogenetics: generation of the hiAM cell lines. <i>European Heart Journal</i> , 2019, 40, .	2.2	3
39	Generation, Characterization, and Application of Inducible Proliferative Adult Human Epicardium-Derived Cells. <i>Cells</i> , 2021, 10, 2064.	4.1	3
40	The proarrhythmic features of pathological cardiac hypertrophy in neonatal rat ventricular cardiomyocyte cultures. <i>Journal of Applied Physiology</i> , 2020, 128, 545-553.	2.5	3
41	Development of a Lentivirus Vector-Based Assay for Non-Destructive Monitoring of Cell Fusion Activity. <i>PLoS ONE</i> , 2014, 9, e102433.	2.5	2
42	2160 Continuous shock-free termination of atrial fibrillation by local optogenetic therapy and arrhythmia-triggered activation of an implanted light source. <i>European Heart Journal</i> , 2019, 40, .	2.2	1
43	Formation of human cardiomyocytes is impaired in a fibrotic environment: unravelling human cardiac regeneration. <i>European Heart Journal</i> , 2021, 42, .	2.2	1
44	Ultrasound-Guided Optogenetic Gene Delivery for Shock-Free Ventricular Rhythm Restoration. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2022, 15, CIRCEP121009886.	4.8	1
45	The quest for an atrium-specific biomarker. <i>Netherlands Heart Journal</i> , 2011, 19, 151-152.	0.8	0
46	Response by Feola et al to Letter Regarding Article, "Localized Optogenetic Targeting of Rotors in Atrial Cardiomyocyte Monolayers". <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e006130.	4.8	0
47	196 Local optogenetic therapy for acute shock-free termination of atrial fibrillation in vivo. <i>European Heart Journal</i> , 2018, 39, .	2.2	0
48	P924 Massive expansion of native human atrial cardiomyocytes by immortogenetics. <i>European Heart Journal</i> , 2018, 39, .	2.2	0
49	P5717 Biological shock-free termination of ventricular tachyarrhythmias in the adult rat model of cardiac pressure overload. <i>European Heart Journal</i> , 2018, 39, .	2.2	0
50	Biological defibrillation. <i>European Heart Journal</i> , 2018, 39, 3915-3917.	2.2	0
51	P5725 Identification of novel cardiomyogenic factors by transcriptome analysis of conditionally immortalized atrial myocytes. <i>European Heart Journal</i> , 2019, 40, .	2.2	0
52	1275 First evidence of "trapped reentry" as dormant source of acute atrial fibrillation and fractionated atrial electrograms under sinus rhythm. <i>Europace</i> , 2020, 22, .	1.7	0
53	Realization of fully biological restoration of cardiac rhythm: a computational translational exploration. <i>European Heart Journal</i> , 2021, 42, .	2.2	0
54	Transcriptome analysis of conditionally immortalized atrial myocytes: identification of a novel atrium-enriched protein involved in sarcomere assembly and maintenance. <i>European Heart Journal</i> , 2021, 42, .	2.2	0

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55	Conditional immortalization of human cardiomyocytes for translational <i>in vitro</i> modelling of cardiovascular disease. Cardiovascular Research, 2022, 118, e105-e107.	3.8	0