

Torsten Christ

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

3,028
citations

30
h-index

53
g-index

92
ext. papers

3,606
ext. citations

6.7
avg, IF

4.66
L-index

#	Paper	IF	Citations
85	Are atrial human pluripotent stem cell-derived cardiomyocytes ready to identify drugs that beat atrial fibrillation?. <i>Nature Communications</i> , 2021 , 12, 1725	17.4	6
84	Human Engineered Heart Tissue Patches Remuscularize the Injured Heart in a Dose-Dependent Manner. <i>Circulation</i> , 2021 , 143, 1991-2006	16.7	18
83	Regulation of basal and norepinephrine-induced cAMP and I in hiPSC-cardiomyocytes: Effects of culture conditions and comparison to adult human atrial cardiomyocytes. <i>Cellular Signalling</i> , 2021 , 82, 109970	4.9	2
82	No impact of sex and age on beta-adrenoceptor-mediated inotropy in human right atrial trabeculae. <i>Acta Physiologica</i> , 2021 , 231, e13564	5.6	1
81	Impact of phosphodiesterases PDE3 and PDE4 on 5-hydroxytryptamine receptor4-mediated increase of cAMP in human atrial fibrillation. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2021 , 394, 291-298	3.4	5
80	Blunted beta-adrenoceptor-mediated inotropy in valvular cardiomyopathy: another piece of the puzzle in human aortic valve disease. <i>European Journal of Cardio-thoracic Surgery</i> , 2021 , 60, 56-63	3	2
79	Translational investigation of electrophysiology in hypertrophic cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2021 , 157, 77-89	5.8	2
78	Ca currents in cardiomyocytes: How to improve interpretation of patch clamp data?. <i>Progress in Biophysics and Molecular Biology</i> , 2020 , 157, 33-39	4.7	3
77	Inhibition of Adenosine Pathway Alters Atrial Electrophysiology and Prevents Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2020 , 11, 493	4.6	6
76	Regulation of I and force by PDEs in human-induced pluripotent stem cell-derived cardiomyocytes. <i>British Journal of Pharmacology</i> , 2020 , 177, 3036-3045	8.6	6
75	Case Report on: Very Early Afterdepolarizations in HiPSC-Cardiomyocytes-An Artifact by Big Conductance Calcium Activated Potassium Current (I). <i>Cells</i> , 2020 , 9,	7.9	5
74	Intermittent Optogenetic Tachypacing of Atrial Engineered Heart Tissue Induces Only Limited Electrical Remodelling. <i>Journal of Cardiovascular Pharmacology</i> , 2020 , 77, 291-299	3.1	3
73	Chronic intermittent tachypacing by an optogenetic approach induces arrhythmia vulnerability in human engineered heart tissue. <i>Cardiovascular Research</i> , 2020 , 116, 1487-1499	9.9	24
72	Cardiac glial cells release neurotrophic S100B upon catheter-based treatment of atrial fibrillation. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	27
71	Divergent off-target effects of RSK N-terminal and C-terminal kinase inhibitors in cardiac myocytes. <i>Cellular Signalling</i> , 2019 , 63, 109362	4.9	3
70	Disease modeling of a mutation in Ectinin 2 guides clinical therapy in hypertrophic cardiomyopathy. <i>EMBO Molecular Medicine</i> , 2019 , 11, e11115	12	49
69	DPP10 is a new regulator of Nav1.5 channels in human heart. <i>International Journal of Cardiology</i> , 2019 , 284, 68-73	3.2	2

68	Mechanistic role of the CREB-regulated transcription coactivator 1 in cardiac hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 127, 31-43	5.8	4
67	German Cardiac Society Working Group on Cellular Electrophysiology state-of-the-art paper: impact of molecular mechanisms on clinical arrhythmia management. <i>Clinical Research in Cardiology</i> , 2019 , 108, 577-599	6.1	11
66	Low Resting Membrane Potential and Low Inward Rectifier Potassium Currents Are Not Inherent Features of hiPSC-Derived Cardiomyocytes. <i>Stem Cell Reports</i> , 2018 , 10, 822-833	8	51
65	In Vitro Negative Inotropic Effect of Low Concentrations of Bupivacaine Relates to Diminished Ca ²⁺ Sensitivity but Not to Ca ²⁺ Handling or β Adrenoceptor Signaling. <i>Anesthesiology</i> , 2018 , 128, 1175-1186	4.3	1
64	Human Induced Pluripotent Stem Cell-Derived Engineered Heart Tissue as a Sensitive Test System for QT Prolongation and Arrhythmic Triggers. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018 , 11, e006035	6.4	50
63	Inhibition of Small Conductance Calcium-Activated Potassium (SK) Channels Prevents Arrhythmias in Rat Atria During β Adrenergic and Muscarinic Receptor Activation. <i>Frontiers in Physiology</i> , 2018 , 9, 510	4.6	13
62	Atrial-like Engineered Heart Tissue: An In Vitro Model of the Human Atrium. <i>Stem Cell Reports</i> , 2018 , 11, 1378-1390	8	74
61	Rat atrial engineered heart tissue: a new in vitro model to study atrial biology. <i>Basic Research in Cardiology</i> , 2018 , 113, 41	11.8	33
60	Blinded Contractility Analysis in hiPSC-Cardiomyocytes in Engineered Heart Tissue Format: Comparison With Human Atrial Trabeculae. <i>Toxicological Sciences</i> , 2017 , 158, 164-175	4.4	36
59	Human iPSC-derived cardiomyocytes cultured in 3D engineered heart tissue show physiological upstroke velocity and sodium current density. <i>Scientific Reports</i> , 2017 , 7, 5464	4.9	99
58	Cafedrine/Theodrenaline (20:1) Is an Established Alternative for the Management of Arterial Hypotension in Germany-a Review Based on a Systematic Literature Search. <i>Frontiers in Pharmacology</i> , 2017 , 8, 68	5.6	10
57	Akrinor, a Cafedrine/ Theodrenaline Mixture (20:1), Increases Force of Contraction of Human Atrial Myocardium But Does Not Constrict Internal Mammary Artery. <i>Frontiers in Pharmacology</i> , 2017 , 8, 272	5.6	3
56	Block of Na ⁽⁺⁾ /Ca ⁽²⁺⁾ exchanger by SEA0400 in human right atrial preparations from patients in sinus rhythm and in atrial fibrillation. <i>European Journal of Pharmacology</i> , 2016 , 788, 286-293	5.3	10
55	Human Engineered Heart Tissue: Analysis of Contractile Force. <i>Stem Cell Reports</i> , 2016 , 7, 29-42	8	217
54	Ranolazine antagonizes catecholamine-induced dysfunction in isolated cardiomyocytes, but lacks long-term therapeutic effects in vivo in a mouse model of hypertrophic cardiomyopathy. <i>Cardiovascular Research</i> , 2016 , 109, 90-102	9.9	28
53	Ca ⁽²⁺⁾ -Currents in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Effects of Two Different Culture Conditions. <i>Frontiers in Pharmacology</i> , 2016 , 7, 300	5.6	35
52	In permanent atrial fibrillation, PDE3 reduces force responses to 5-HT, but PDE3 and PDE4 do not cause the blunting of atrial arrhythmias. <i>British Journal of Pharmacology</i> , 2016 , 173, 2478-89	8.6	13
51	Refractoriness in human atria: Time and voltage dependence of sodium channel availability. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 101, 26-34	5.8	19

50	Prolonged action potentials in HCM-derived iPSC--biology or artefact?. <i>Cardiovascular Research</i> , 2015 , 106, 6	9.9	2
49	Treatment of Atrial Fibrillation and Atrial Flutter 2015 , 1059-1079		
48	LQT1-phenotypes in hiPSC: Are we measuring the right thing?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1968	11.5	12
47	Application of the RIMARC algorithm to a large data set of action potentials and clinical parameters for risk prediction of atrial fibrillation. <i>Medical and Biological Engineering and Computing</i> , 2015 , 53, 263-73 ¹	3.1	16
46	β ₁ Adrenoceptor antagonistic effects of the supposedly selective β ₂ adrenoceptor antagonist ICI 118,551 on the positive inotropic effect of adrenaline in murine hearts. <i>Pharmacology Research and Perspectives</i> , 2015 , 3, e00168	3.1	2
45	Cardiac Arrhythmias: Introduction, Electrophysiology of the Heart, Action Potential and Membrane Currents 2015 , 977-1002		1
44	Carvedilol induces greater control of β ₂ - than β ₁ -adrenoceptor-mediated inotropic and lusitropic effects by PDE3, while PDE4 has no effect in human failing myocardium. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2014 , 387, 629-40	3.4	7
43	Arrhythmias, elicited by catecholamines and serotonin, vanish in human chronic atrial fibrillation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11193-8	11.5	61
42	Effects of proarrhythmic drugs on relaxation time and beating pattern in rat engineered heart tissue. <i>Basic Research in Cardiology</i> , 2014 , 109, 436	11.8	27
41	Attenuated response of L-type calcium current to nitric oxide in atrial fibrillation. <i>Cardiovascular Research</i> , 2014 , 101, 533-42	9.9	17
40	Small-conductance calcium-activated potassium (SK) channels contribute to action potential repolarization in human atria. <i>Cardiovascular Research</i> , 2014 , 103, 156-67	9.9	122
39	Atrial-selective antiarrhythmic activity by vernakalant fact or fiction?. <i>Journal of Cardiovascular Pharmacology</i> , 2014 , 63, 23-4	3.1	1
38	Prostaglandin E2 does not attenuate adrenergic-induced cardiac contractile response. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2014 , 387, 963-8	3.4	1
37	Myocardial accumulation of bupivacaine and ropivacaine is associated with reversible effects on mitochondria and reduced myocardial function. <i>Anesthesia and Analgesia</i> , 2013 , 116, 83-92	3.9	14
36	PDE3, but not PDE4, reduces β ₁ and β ₂ adrenoceptor-mediated inotropic and lusitropic effects in failing ventricle from metoprolol-treated patients. <i>British Journal of Pharmacology</i> , 2013 , 169, 528-38	8.6	38
35	The new antiarrhythmic drug vernakalant: ex vivo study of human atrial tissue from sinus rhythm and chronic atrial fibrillation. <i>Cardiovascular Research</i> , 2013 , 98, 145-54	9.9	64
34	Human electrophysiological and pharmacological properties of XEN-D0101: a novel atrial-selective Kv1.5/IKur inhibitor. <i>Journal of Cardiovascular Pharmacology</i> , 2013 , 61, 408-15	3.1	36
33	Sphingosine-1-phosphate induces contraction of valvular interstitial cells from porcine aortic valves. <i>Cardiovascular Research</i> , 2012 , 93, 490-7	9.9	17

32	Skeletal muscle stem cells propagated as myospheres display electrophysiological properties modulated by culture conditions. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 357-66	5.8	9
31	Human atrial β_1 -adrenoceptor but not β_2 -adrenoceptor activation increases force and Ca^{2+} current at physiological temperature. <i>British Journal of Pharmacology</i> , 2011 , 162, 823-39	8.6	22
30	Adult zebrafish heart as a model for human heart? An electrophysiological study. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 48, 161-71	5.8	143
29	Inhibition of $I_{K,ACh}$ current may contribute to clinical efficacy of class I and class III antiarrhythmic drugs in patients with atrial fibrillation. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2010 , 381, 251-9	3.4	38
28	Tissue slices from adult mammalian hearts as a model for pharmacological drug testing. <i>Cellular Physiology and Biochemistry</i> , 2009 , 24, 527-36	3.9	47
27	Inotropy and L-type Ca^{2+} current, activated by β_1 - and β_2 -adrenoceptors, are differently controlled by phosphodiesterases 3 and 4 in rat heart. <i>British Journal of Pharmacology</i> , 2009 , 156, 62-83	8.6	42
26	Adipocyte fatty acid-binding protein suppresses cardiomyocyte contraction: a new link between obesity and heart disease. <i>Circulation Research</i> , 2009 , 105, 326-34	15.7	149
25	Effects of three metabolites of propiverine on voltage-dependent L-type calcium currents in human atrial myocytes. <i>European Journal of Pharmacology</i> , 2008 , 598, 94-7	5.3	4
24	Chelerythrine treatment influences the balance of pro- and anti-apoptotic signaling pathways in the remote myocardium after infarction. <i>Molecular and Cellular Biochemistry</i> , 2008 , 310, 119-28	4.2	12
23	Electrophysiological profile of propiverine--relationship to cardiac risk. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2008 , 376, 431-40	3.4	15
22	Differential phosphorylation-dependent regulation of constitutively active and muscarinic receptor-activated $I_{K,ACh}$ channels in patients with chronic atrial fibrillation. <i>Cardiovascular Research</i> , 2007 , 74, 426-37	9.9	91
21	The effects of levosimendan on myocardial function in ropivacaine toxicity in isolated guinea pig heart preparations. <i>Anesthesia and Analgesia</i> , 2007 , 105, 641-7	3.9	12
20	Novel anti-arrhythmic agents for the treatment of atrial fibrillation. <i>Current Opinion in Pharmacology</i> , 2007 , 7, 214-8	5.1	11
19	Carvedilol blocks β_2 - more than β_1 -adrenoceptors in human heart. <i>Cardiovascular Research</i> , 2006 , 69, 128-39	9.9	25
18	Biophysical characterization of the new human ether-a-go-go-related gene channel opener NS3623 [N-(4-bromo-2-(1H-tetrazol-5-yl)-phenyl)-N'-(3-trifluoromethylphenyl)urea]. <i>Molecular Pharmacology</i> , 2006 , 70, 1319-29	4.3	60
17	Activation of human ether-a-go-go-related gene potassium channels by the diphenylurea 1,3-bis-(2-hydroxy-5-trifluoromethyl-phenyl)-urea (NS1643). <i>Molecular Pharmacology</i> , 2006 , 69, 266-77	4.3	122
16	Letter by Christ et al regarding article, "Angiotensin II potentiates the slow component of delayed rectifier K^+ current via the AT1 receptor in guinea pig atrial myocytes". <i>Circulation</i> , 2006 , 114, e565; author reply e566	16.7	2
15	Interaction between autoantibodies against the β_1 -adrenoceptor and isoprenaline in enhancing L-type Ca^{2+} current in rat ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2006 , 41, 716-23	5.8	18

14	A new toxin from the sea anemone <i>Condylactis gigantea</i> with effect on sodium channel inactivation. <i>Toxicon</i> , 2006 , 48, 211-20	2.8	38
13	5-Azacytidine induces changes in electrophysiological properties of human mesenchymal stem cells. <i>Cell Research</i> , 2006 , 16, 949-60	24.7	66
12	Pharmacodynamics of propiverine and three of its main metabolites on detrusor contraction. <i>British Journal of Pharmacology</i> , 2005 , 145, 608-19	8.6	38
11	Effects of Immunoglobulin G From Patients with Dilated Cardiomyopathy on Rat Cardiomyocytes. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2005 , 96, 445-452	3.1	8
10	Risperidone-induced action potential prolongation is attenuated by increased repolarization reserve due to concomitant block of I(Ca,L). <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2005 , 371, 393-400	3.4	16
9	Human atrial ion channel and transporter subunit gene-expression remodeling associated with valvular heart disease and atrial fibrillation. <i>Circulation</i> , 2005 , 112, 471-81	16.7	188
8	Muscarinic subtype-2 receptor autoantibodies: actors or bystanders in human atrial fibrillation?. <i>European Heart Journal</i> , 2004 , 25, 1091-2	9.5	7
7	Role of I _{Kur} in controlling action potential shape and contractility in the human atrium: influence of chronic atrial fibrillation. <i>Circulation</i> , 2004 , 110, 2299-306	16.7	219
6	Recording atrial monophasic action potentials using standard pacemaker leads: an alternative way to study electrophysiology properties of the human atrium in vivo?. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2004 , 27, 1632-7	1.6	1
5	Electrophysiological properties of human mesenchymal stem cells. <i>Journal of Physiology</i> , 2004 , 554, 659-73	3.3	163
4	An aqueous extract of the marine sponge <i>Ectyoplasia ferox</i> stimulates L-type Ca ²⁺ -current by direct interaction with the Cav1.2 subunit. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2004 , 370, 474-83	3.4	7
3	Decreased ATP-sensitive K(+) current density during chronic human atrial fibrillation. <i>Journal of Molecular and Cellular Cardiology</i> , 2003 , 35, 1399-405	5.8	34
2	Rate-adaptive pacing using intracardiac impedance shows no evidence for positive feedback during dobutamine stress test. <i>Europace</i> , 2002 , 4, 311-5	3.9	2
1	Autoantibodies against the beta1 adrenoceptor from patients with dilated cardiomyopathy prolong action potential duration and enhance contractility in isolated cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2001 , 33, 1515-25	5.8	99