Torsten Christ

List of Publications by Citations

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	Role of IKur in controlling action potential shape and contractility in the human atrium: influence of chronic atrial fibrillation. *Circulation*, **2004**, 110, 2299-306	16.7	219
84	Human Engineered Heart Tissue: Analysis of Contractile Force. *Stem Cell Reports*, **2016**, 7, 29-42	8	217
83	Human atrial ion channel and transporter subunit gene-expression remodeling associated with valvular heart disease and atrial fibrillation. *Circulation*, **2005**, 112, 471-81	16.7	188
82	Electrophysiological properties of human mesenchymal stem cells. *Journal of Physiology*, **2004**, 554, 659-72	3.9	163
81	Adipocyte fatty acid-binding protein suppresses cardiomyocyte contraction: a new link between obesity and heart disease. *Circulation Research*, **2009**, 105, 326-34	15.7	149
80	Adult zebrafish heart as a model for human heart? An electrophysiological study. *Journal of Molecular and Cellular Cardiology*, **2010**, 48, 161-71	5.8	143
79	Small-conductance calcium-activated potassium (SK) channels contribute to action potential repolarization in human atria. *Cardiovascular Research*, **2014**, 103, 156-67	9.9	122
78	Activation of human ether-a-go-go-related gene potassium channels by the diphenylurea 1,3-bis-(2-hydroxy-5-trifluoromethyl-phenyl)-urea (NS1643). *Molecular Pharmacology*, **2006**, 69, 266-77	4.3	122
77	Human iPSC-derived cardiomyocytes cultured in 3D engineered heart tissue show physiological upstroke velocity and sodium current density. *Scientific Reports*, **2017**, 7, 5464	4.9	99
76	Autoantibodies against the beta1 adrenoceptor from patients with dilated cardiomyopathy prolong action potential duration and enhance contractility in isolated cardiomyocytes. *Journal of Molecular and Cellular Cardiology*, **2001**, 33, 1515-25	5.8	99
75	Differential phosphorylation-dependent regulation of constitutively active and muscarinic receptor-activated IK,ACh channels in patients with chronic atrial fibrillation. *Cardiovascular Research*, **2007**, 74, 426-37	9.9	91
74	Atrial-like Engineered Heart Tissue: An In Vitro Model of the Human Atrium. *Stem Cell Reports*, **2018**, 11, 1378-1390	8	74
73	5-Azacytidine induces changes in electrophysiological properties of human mesenchymal stem cells. *Cell Research*, **2006**, 16, 949-60	24.7	66
72	The new antiarrhythmic drug vernakalant: ex vivo study of human atrial tissue from sinus rhythm and chronic atrial fibrillation. *Cardiovascular Research*, **2013**, 98, 145-54	9.9	64
71	Arrhythmias, elicited by catecholamines and serotonin, vanish in human chronic atrial fibrillation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 11193-8	11.5	61
70	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]. *Molecular Pharmacology*, **2006**, 70, 1319-29	4.3	60
69	Low Resting Membrane Potential and Low Inward Rectifier Potassium Currents Are Not Inherent Features of hiPSC-Derived Cardiomyocytes. *Stem Cell Reports*, **2018**, 10, 822-833	8	51

68	Human Induced Pluripotent Stem Cell-Derived Engineered Heart Tissue as a Sensitive Test System for QT Prolongation and Arrhythmic Triggers. *Circulation: Arrhythmia and Electrophysiology*, **2018**, 11, e006035	6.4	50
67	Disease modeling of a mutation in α-actinin 2 guides clinical therapy in hypertrophic cardiomyopathy. *EMBO Molecular Medicine*, **2019**, 11, e11115	12	49
66	Tissue slices from adult mammalian hearts as a model for pharmacological drug testing. *Cellular Physiology and Biochemistry*, **2009**, 24, 527-36	3.9	47
65	Inotropy and L-type Ca2+ current, activated by beta1- and beta2-adrenoceptors, are differently controlled by phosphodiesterases 3 and 4 in rat heart. *British Journal of Pharmacology*, **2009**, 156, 62-83	8.6	42
64	PDE3, but not PDE4, reduces β1 and β2 adrenoceptor-mediated inotropic and lusitropic effects in failing ventricle from metoprolol-treated patients. *British Journal of Pharmacology*, **2013**, 169, 528-38	8.6	38
63	Inhibition of IK,ACh current may contribute to clinical efficacy of class I and class III antiarrhythmic drugs in patients with atrial fibrillation. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2010**, 381, 251-9	3.4	38
62	A new toxin from the sea anemone Condylactis gigantea with effect on sodium channel inactivation. *Toxicon*, **2006**, 48, 211-20	2.8	38
61	Pharmacodynamics of propiverine and three of its main metabolites on detrusor contraction. *British Journal of Pharmacology*, **2005**, 145, 608-19	8.6	38
60	Blinded Contractility Analysis in hiPSC-Cardiomyocytes in Engineered Heart Tissue Format: Comparison With Human Atrial Trabeculae. *Toxicological Sciences*, **2017**, 158, 164-175	4.4	36
59	Human electrophysiological and pharmacological properties of XEN-D0101: a novel atrial-selective Kv1.5/IKur inhibitor. *Journal of Cardiovascular Pharmacology*, **2013**, 61, 408-15	3.1	36
58	Ca(2+)-Currents in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Effects of Two Different Culture Conditions. *Frontiers in Pharmacology*, **2016**, 7, 300	5.6	35
57	Decreased ATP-sensitive K(+) current density during chronic human atrial fibrillation. *Journal of Molecular and Cellular Cardiology*, **2003**, 35, 1399-405	5.8	34
56	Rat atrial engineered heart tissue: a new in vitro model to study atrial biology. *Basic Research in Cardiology*, **2018**, 113, 41	11.8	33
55	Ranolazine antagonizes catecholamine-induced dysfunction in isolated cardiomyocytes, but lacks long-term therapeutic effects in vivo in a mouse model of hypertrophic cardiomyopathy. *Cardiovascular Research*, **2016**, 109, 90-102	9.9	28
54	Cardiac glial cells release neurotrophic S100B upon catheter-based treatment of atrial fibrillation. *Science Translational Medicine*, **2019**, 11,	17.5	27
53	Effects of proarrhythmic drugs on relaxation time and beating pattern in rat engineered heart tissue. *Basic Research in Cardiology*, **2014**, 109, 436	11.8	27
52	Carvedilol blocks beta2- more than beta1-adrenoceptors in human heart. *Cardiovascular Research*, **2006**, 69, 128-39	9.9	25
51	Chronic intermittent tachypacing by an optogenetic approach induces arrhythmia vulnerability in human engineered heart tissue. *Cardiovascular Research*, **2020**, 116, 1487-1499	9.9	24

50	Human atrial (1L)-adrenoceptor but not -adrenoceptor activation increases force and Ca(2+) current at physiological temperature. *British Journal of Pharmacology*, **2011**, 162, 823-39	8.6	22
49	Refractoriness in human atria: Time and voltage dependence of sodium channel availability. *Journal of Molecular and Cellular Cardiology*, **2016**, 101, 26-34	5.8	19
48	Interaction between autoantibodies against the beta1-adrenoceptor and isoprenaline in enhancing L-type Ca2+ current in rat ventricular myocytes. *Journal of Molecular and Cellular Cardiology*, **2006**, 41, 716-23	5.8	18
47	Human Engineered Heart Tissue Patches Remuscularize the Injured Heart in a Dose-Dependent Manner. *Circulation*, **2021**, 143, 1991-2006	16.7	18
46	Attenuated response of L-type calcium current to nitric oxide in atrial fibrillation. *Cardiovascular Research*, **2014**, 101, 533-42	9.9	17
45	Sphingosine-1-phosphate induces contraction of valvular interstitial cells from porcine aortic valves. *Cardiovascular Research*, **2012**, 93, 490-7	9.9	17
44	Application of the RIMARC algorithm to a large data set of action potentials and clinical parameters for risk prediction of atrial fibrillation. *Medical and Biological Engineering and Computing*, **2015**, 53, 263-73	3.1	16
43	Risperidone-induced action potential prolongation is attenuated by increased repolarization reserve due to concomitant block of I(Ca,L). *Naunyn-Schmiedebergs Archives of Pharmacology*, **2005**, 371, 393-400	3.4	16
42	Electrophysiological profile of propiverine--relationship to cardiac risk. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2008**, 376, 431-40	3.4	15
41	Myocardial accumulation of bupivacaine and ropivacaine is associated with reversible effects on mitochondria and reduced myocardial function. *Anesthesia and Analgesia*, **2013**, 116, 83-92	3.9	14
40	Inhibition of Small Conductance Calcium-Activated Potassium (SK) Channels Prevents Arrhythmias in Rat Atria During -Adrenergic and Muscarinic Receptor Activation. *Frontiers in Physiology*, **2018**, 9, 510	4.6	13
39	In permanent atrial fibrillation, PDE3 reduces force responses to 5-HT, but PDE3 and PDE4 do not cause the blunting of atrial arrhythmias. *British Journal of Pharmacology*, **2016**, 173, 2478-89	8.6	13
38	LQT1-phenotypes in hiPSC: Are we measuring the right thing?. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E1968	11.5	12
37	Chelerythrine treatment influences the balance of pro- and anti-apoptotic signaling pathways in the remote myocardium after infarction. *Molecular and Cellular Biochemistry*, **2008**, 310, 119-28	4.2	12
36	The effects of levosimendan on myocardial function in ropivacaine toxicity in isolated guinea pig heart preparations. *Anesthesia and Analgesia*, **2007**, 105, 641-7	3.9	12
35	Novel anti-arrhythmic agents for the treatment of atrial fibrillation. *Current Opinion in Pharmacology*, **2007**, 7, 214-8	5.1	11
34	German Cardiac Society Working Group on Cellular Electrophysiology state-of-the-art paper: impact of molecular mechanisms on clinical arrhythmia management. *Clinical Research in Cardiology*, **2019**, 108, 577-599	6.1	11
33	Block of Na(+)/Ca(2+) exchanger by SEA0400 in human right atrial preparations from patients in sinus rhythm and in atrial fibrillation. *European Journal of Pharmacology*, **2016**, 788, 286-293	5.3	10

32	Cafedrine/Theodrenaline (20:1) Is an Established Alternative for the Management of Arterial Hypotension in Germany-a Review Based on a Systematic Literature Search. *Frontiers in Pharmacology*, **2017**, 8, 68	5.6	10
31	Skeletal muscle stem cells propagated as myospheres display electrophysiological properties modulated by culture conditions. *Journal of Molecular and Cellular Cardiology*, **2011**, 50, 357-66	5.8	9
30	Effects of Immunoglobulin G from Patients with Dilated Cardiomyopathy on Rat Cardiomyocytes. *Basic and Clinical Pharmacology and Toxicology*, **2005**, 96, 445-452	3.1	8
29	Carvedilol induces greater control of β2- than β1-adrenoceptor-mediated inotropic and lusitropic effects by PDE3, while PDE4 has no effect in human failing myocardium. *Naunyn-Schmiedeberg's Archives of Pharmacology*, **2014**, 387, 629-40	3.4	7
28	Muscarinic subtype-2 receptor autoantibodies: actors or bystanders in human atrial fibrillation?. *European Heart Journal*, **2004**, 25, 1091-2	9.5	7
27	An aqueous extract of the marine sponge Ectyoplasia ferox stimulates L-type Ca2+-current by direct interaction with the Cav1.2 subunit. *Naunyn-Schmiedeberg's Archives of Pharmacology*, **2004**, 370, 474-83	3.4	7
26	Inhibition of Adenosine Pathway Alters Atrial Electrophysiology and Prevents Atrial Fibrillation. *Frontiers in Physiology*, **2020**, 11, 493	4.6	6
25	Regulation of I and force by PDEs in human-induced pluripotent stem cell-derived cardiomyocytes. *British Journal of Pharmacology*, **2020**, 177, 3036-3045	8.6	6
24	Are atrial human pluripotent stem cell-derived cardiomyocytes ready to identify drugs that beat atrial fibrillation?. *Nature Communications*, **2021**, 12, 1725	17.4	6
23	Case Report on: Very Early Afterdepolarizations in HiPSC-Cardiomyocytes-An Artifact by Big Conductance Calcium Activated Potassium Current (I). *Cells*, **2020**, 9,	7.9	5
22	Impact of phosphodiesterases PDE3 and PDE4 on 5-hydroxytryptamine receptor4-mediated increase of cAMP in human atrial fibrillation. *Naunyn-Schmiedeberg's Archives of Pharmacology*, **2021**, 394, 291-298	3.4	5
21	Effects of three metabolites of propiverine on voltage-dependent L-type calcium currents in human atrial myocytes. *European Journal of Pharmacology*, **2008**, 598, 94-7	5.3	4
20	Mechanistic role of the CREB-regulated transcription coactivator 1 in cardiac hypertrophy. *Journal of Molecular and Cellular Cardiology*, **2019**, 127, 31-43	5.8	4
19	Ca currents in cardiomyocytes: How to improve interpretation of patch clamp data?. *Progress in Biophysics and Molecular Biology*, **2020**, 157, 33-39	4.7	3
18	Divergent off-target effects of RSK N-terminal and C-terminal kinase inhibitors in cardiac myocytes. *Cellular Signalling*, **2019**, 63, 109362	4.9	3
17	Akrinor, a Cafedrine/ Theodrenaline Mixture (20:1), Increases Force of Contraction of Human Atrial Myocardium But Does Not Constrict Internal Mammary Artery. *Frontiers in Pharmacology*, **2017**, 8, 272	5.6	3
16	Intermittent Optogenetic Tachypacing of Atrial Engineered Heart Tissue Induces Only Limited Electrical Remodelling. *Journal of Cardiovascular Pharmacology*, **2020**, 77, 291-299	3.1	3
15	Prolonged action potentials in HCM-derived iPSC--biology or artefact?. *Cardiovascular Research*, **2015**, 106, 6	9.9	2

14	1 Adrenoceptor antagonistic effects of the supposedly selective 2 adrenoceptor antagonist ICI 118,551 on the positive inotropic effect of adrenaline in murine hearts. *Pharmacology Research and Perspectives*, **2015**, 3, e00168	3.1	2
13	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". *Circulation*, **2006**, 114, e565; author reply e566	16.7	2
12	Rate-adaptive pacing using intracardiac impedance shows no evidence for positive feedback during dobutamine stress test. *Europace*, **2002**, 4, 311-5	3.9	2
11	Regulation of basal and norepinephrine-induced cAMP and I in hiPSC-cardiomyocytes: Effects of culture conditions and comparison to adult human atrial cardiomyocytes. *Cellular Signalling*, **2021**, 82, 109970	4.9	2
10	DPP10 is a new regulator of Nav1.5 channels in human heart. *International Journal of Cardiology*, **2019**, 284, 68-73	3.2	2
9	Blunted beta-adrenoceptor-mediated inotropy in valvular cardiomyopathy: another piece of the puzzle in human aortic valve disease. *European Journal of Cardio-thoracic Surgery*, **2021**, 60, 56-63	3	2
8	Translational investigation of electrophysiology in hypertrophic cardiomyopathy. *Journal of Molecular and Cellular Cardiology*, **2021**, 157, 77-89	5.8	2
7	In Vitro Negative Inotropic Effect of Low Concentrations of Bupivacaine Relates to Diminished Ca2+ Sensitivity but Not to Ca2+ Handling or Adrenoceptor Signaling. *Anesthesiology*, **2018**, 128, 1175-1186	4.3	1
6	Atrial-selective antiarrhythmic activity by vernakalant fact or fiction?. *Journal of Cardiovascular Pharmacology*, **2014**, 63, 23-4	3.1	1
5	Prostaglandin E2 does not attenuate adrenergic-induced cardiac contractile response. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2014**, 387, 963-8	3.4	1
4	Recording atrial monophasic action potentials using standard pacemaker leads: an alternative way to study electrophysiology properties of the human atrium in vivo?. *PACE - Pacing and Clinical Electrophysiology*, **2004**, 27, 1632-7	1.6	1
3	Cardiac Arrhythmias: Introduction, Electrophysiology of the Heart, Action Potential and Membrane Currents **2015**, 977-1002		1
2	No impact of sex and age on beta-adrenoceptor-mediated inotropy in human right atrial trabeculae. *Acta Physiologica*, **2021**, 231, e13564	5.6	1
1	Treatment of Atrial Fibrillation and Atrial Flutter **2015**, 1059-1079		