

# Arne Hansen

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

2,958  
citations

304743

22  
h-index

276875

41  
g-index

43  
all docs

43  
docs citations

43  
times ranked

3254  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a Drug Screening Platform Based on Engineered Heart Tissue. <i>Circulation Research</i> , 2010, 107, 35-44.	4.5	420
2	Functional improvement and maturation of rat and human engineered heart tissue by chronic electrical stimulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 74, 151-161.	1.9	305
3	Human Engineered Heart Tissue: Analysis of Contractile Force. <i>Stem Cell Reports</i> , 2016, 7, 29-42.	4.8	292
4	Cardiac repair in guinea pigs with human engineered heart tissue from induced pluripotent stem cells. <i>Science Translational Medicine</i> , 2016, 8, 363ra148.	12.4	215
5	Differentiation of cardiomyocytes and generation of human engineered heart tissue. <i>Nature Protocols</i> , 2017, 12, 1177-1197.	12.0	197
6	CRISPR/Cas9 editing in human pluripotent stem cell-cardiomyocytes highlights arrhythmias, hypocontractility, and energy depletion as potential therapeutic targets for hypertrophic cardiomyopathy. <i>European Heart Journal</i> , 2018, 39, 3879-3892.	2.2	176
7	Contractile Work Contributes to Maturation of Energy Metabolism in hiPSC-Derived Cardiomyocytes. <i>Stem Cell Reports</i> , 2018, 10, 834-847.	4.8	148
8	Human engineered heart tissue as a model system for drug testing. <i>Advanced Drug Delivery Reviews</i> , 2016, 96, 214-224.	13.7	146
9	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.	3.3	140
10	Atrial-like Engineered Heart Tissue: An In Vitro Model of the Human Atrium. <i>Stem Cell Reports</i> , 2018, 11, 1378-1390.	4.8	132
11	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.	4.8	92
12	Disease modeling of a mutation in $\alpha$ -actinin 2 guides clinical therapy in hypertrophic cardiomyopathy. <i>EMBO Molecular Medicine</i> , 2019, 11, e11115.	6.9	88
13	Evaluation of MYBPC3 trans -Splicing and Gene Replacement as Therapeutic Options in Human iPSC-Derived Cardiomyocytes. <i>Molecular Therapy - Nucleic Acids</i> , 2017, 7, 475-486.	5.1	74
14	Blinded Contractility Analysis in hiPSC-Cardiomyocytes in Engineered Heart Tissue Format: Comparison With Human Atrial Trabeculae. <i>Toxicological Sciences</i> , 2017, 158, 164-175.	3.1	52
15	Comparison of 10 Control hPSC Lines for Drug Screening in an Engineered Heart Tissue Format. <i>Stem Cell Reports</i> , 2020, 15, 983-998.	4.8	45
16	Deciphering the microRNA signature of pathological cardiac hypertrophy by engineered heart tissue- and sequencing-technology. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 81, 1-9.	1.9	41
17	Force and Calcium Transients Analysis in Human Engineered Heart Tissues Reveals Positive Force-Frequency Relation at Physiological Frequency. <i>Stem Cell Reports</i> , 2020, 14, 312-324.	4.8	40
18	Chronic intermittent tachypacing by an optogenetic approach induces arrhythmia vulnerability in human engineered heart tissue. <i>Cardiovascular Research</i> , 2020, 116, 1487-1499.	3.8	38

#	ARTICLE	IF	CITATIONS
19	Analysis of Tyrosine Kinase Inhibitor-Mediated Decline in Contractile Force in Rat Engineered Heart Tissue. <i>PLoS ONE</i> , 2016, 11, e0145937.	2.5	36
20	Impairment of the ER/mitochondria compartment in human cardiomyocytes with PLN p.Arg14del mutation. <i>EMBO Molecular Medicine</i> , 2021, 13, e13074.	6.9	34
21	PPARdelta activation induces metabolic and contractile maturation of human pluripotent stem cell-derived cardiomyocytes. <i>Cell Stem Cell</i> , 2022, 29, 559-576.e7.	11.1	34
22	Human iPS cell-derived engineered heart tissue does not affect ventricular arrhythmias in a guinea pig cryo-injury model. <i>Scientific Reports</i> , 2019, 9, 9831.	3.3	28
23	Spontaneous Formation of Extensive Vessel-Like Structures in Murine Engineered Heart Tissue. <i>Tissue Engineering - Part A</i> , 2016, 22, 326-335.	3.1	19
24	Characterization of the PLN p.Arg14del Mutation in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13500.	4.1	16
25	Towards a Tissue-Engineered Contractile Fontan-Conduit: The Fate of Cardiac Myocytes in the Subpulmonary Circulation. <i>PLoS ONE</i> , 2016, 11, e0166963.	2.5	15
26	Therapeutic inhibition of RBM20 improves diastolic function in a murine heart failure model and human engineered heart tissue. <i>Science Translational Medicine</i> , 2021, 13, eabe8952.	12.4	14
27	Implantation of hiPSC-derived Cardiac-muscle Patches after Myocardial Injury in a Guinea Pig Model. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	13
28	Human engineered heart tissue transplantation in a guinea pig chronic injury model. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 166, 1-10.	1.9	12
29	Sulforaphane exposure impairs contractility and mitochondrial function in three-dimensional engineered heart tissue. <i>Redox Biology</i> , 2021, 41, 101951.	9.0	11
30	Intermittent Optogenetic Tachypacing of Atrial Engineered Heart Tissue Induces Only Limited Electrical Remodelling. <i>Journal of Cardiovascular Pharmacology</i> , 2021, 77, 291-299.	1.9	11
31	Comprehensive analyses of the inotropic compound omecamtiv mecarbil in rat and human cardiac preparations. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 322, H373-H385.	3.2	11
32	Immunobiology of Fibrin-Based Engineered Heart Tissue. <i>Stem Cells Translational Medicine</i> , 2015, 4, 625-631.	3.3	10
33	Cell Banking of hiPSCs: A Practical Guide to Cryopreservation and Quality Control in Basic Research. <i>Current Protocols in Stem Cell Biology</i> , 2020, 55, e127.	3.0	10
34	Regulation of I <sub>Ca,L</sub> and force by PDEs in human-induced pluripotent stem cell-derived cardiomyocytes. <i>British Journal of Pharmacology</i> , 2020, 177, 3036-3045.	5.4	10
35	Case Report on: Very Early Afterdepolarizations in hiPSC-Cardiomyocytes—An Artifact by Big Conductance Calcium Activated Potassium Current (I <sub>bc,Ca</sub> ). <i>Cells</i> , 2020, 9, 253.	4.1	10
36	Clonal dynamics studied in cultured induced pluripotent stem cells reveal major growth imbalances within a few weeks. <i>Stem Cell Research and Therapy</i> , 2018, 9, 165.	5.5	8

#	ARTICLE	IF	CITATIONS
37	Angiotensin II receptor blocker intake associates with reduced markers of inflammatory activation and decreased mortality in patients with cardiovascular comorbidities and COVID-19 disease. PLoS ONE, 2021, 16, e0258684.	2.5	5
38	Regulation of basal and norepinephrine-induced cAMP and ICa in hiPSC-cardiomyocytes: Effects of culture conditions and comparison to adult human atrial cardiomyocytes. Cellular Signalling, 2021, 82, 109970.	3.6	4
39	Hypertrophic signaling compensates for contractile and metabolic consequences of DNA methyltransferase 3A loss in human cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2021, 154, 115-123.	1.9	3
40	RGS3L allows for an M2 muscarinic receptor-mediated RhoA-dependent inotropy in cardiomyocytes. Basic Research in Cardiology, 2022, 117, 8.	5.9	2
41	Engineering Cardiovascular Regeneration. Current Stem Cell Reports, 2015, 1, 67-78.	1.6	0
42	SERCA2a gain of function in patient-derived R14Del hiPSC-CMs. Journal of General Physiology, 2022, 154, .	1.9	0