

Lior Gepstein

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.

118
papers

9,319
citations

47
h-index

96
g-index

124
ext. papers

10,404
ext. citations

9.1
avg, IF

5.89
L-index

#	Paper	IF	Citations
118	Optogenetic Control of Human Induced Pluripotent Stem Cell-Derived Cardiac Tissue Models.. <i>Journal of the American Heart Association</i> , 2022 , e021615	6	0
117	Characterization of the mechanism by which a nonsense variant in RYR2 leads to disordered calcium handling.. <i>Physiological Reports</i> , 2022 , 10, e15265	2.6	1
116	Factors Associated with Left Ventricular Function Recovery in Patients with Atrial Fibrillation Related Cardiomyopathy.. <i>Israel Medical Association Journal</i> , 2022 , 24, 101-106	0.9	
115	Synthetic cells with self-activating optogenetic proteins communicate with natural cells.. <i>Nature Communications</i> , 2022 , 13, 2328	17.4	4
114	Targeted therapies in genetic dilated and hypertrophic cardiomyopathies: From molecular mechanisms to therapeutic targets.. <i>European Journal of Heart Failure</i> , 2021 ,	12.3	2
113	Left Ventricular Systolic Dysfunction Due to Atrial Fibrillation: Clinical and Echocardiographic Predictors.. <i>Cardiac Failure Review</i> , 2021 , 7, e16	4.2	
112	Reply to Were atrial human pluripotent stem cell-derived cardiomyocytes ready to identify drugs that beat atrial fibrillation? <i>Nature Communications</i> , 2021 , 12, 1729	17.4	
111	Titin Circular RNAs Create a Back-Splice Motif Essential for SRSF10 Splicing. <i>Circulation</i> , 2021 , 143, 1502-1512	16.7	8
110	Extracellular Vesicles From Epicardial Fat Facilitate Atrial Fibrillation. <i>Circulation</i> , 2021 , 143, 2475-2493	16.7	26
109	Optogenetic modulation of cardiac action potential properties may prevent arrhythmogenesis in short and long QT syndromes. <i>JCI Insight</i> , 2021 , 6,	9.9	3
108	Non-ischemic sudden cardiac arrest: Role of 12 lead Holter, family screening and genetic testing. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2021 , 44, 1347-1354	1.6	
107	Using Decellularization/Recellularization Processes to Prepare Liver and Cardiac Engineered Tissues. <i>Methods in Molecular Biology</i> , 2021 , 2273, 111-129	1.4	
106	Polymorphic ventricular tachycardia, ischaemic ventricular fibrillation, and torsade de pointes: importance of the QT and the coupling interval in the differential diagnosis. <i>European Heart Journal</i> , 2021 , 42, 3965-3975	9.5	10
105	Triiodothyronine and dexamethasone alter potassium channel expression and promote electrophysiological maturation of human-induced pluripotent stem cell-derived cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2021 , 161, 130-138	5.8	0
104	Robust Fabrication of Composite 3D Scaffolds with Tissue-Specific Bioactivity: A Proof-of-Concept Study.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 4974-4986	4.1	1
103	Generating ring-shaped engineered heart tissues from ventricular and atrial human pluripotent stem cell-derived cardiomyocytes. <i>Nature Communications</i> , 2020 , 11, 75	17.4	82
102	Single-Cell Mechanical Analysis of Human Pluripotent Stem Cell-Derived Cardiomyocytes for Drug Testing and Pathophysiological Studies. <i>Stem Cell Reports</i> , 2020 , 15, 587-596	8	5

101	Towards Precision Medicine With Human iPSCs for Cardiac Channelopathies. <i>Circulation Research</i> , 2019 , 125, 653-658	15.7	28
100	Use of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes in Preclinical Cancer Drug Cardiotoxicity Testing: A Scientific Statement From the American Heart Association. <i>Circulation Research</i> , 2019 , 125, e75-e92	15.7	55
99	Insights from the Third Dimension: Cardiac Organoids Help Identify Regenerative Pathways. <i>Cell Stem Cell</i> , 2019 , 24, 833-834	18	0
98	Modeling Reentry in the Short QT Syndrome With Human-Induced Pluripotent Stem Cell-Derived Cardiac Cell Sheets. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 2310-2324	15.1	35
97	Engineered heart tissue models from hiPSC-derived cardiomyocytes and cardiac ECM for disease modeling and drug testing applications. <i>Acta Biomaterialia</i> , 2019 , 92, 145-159	10.8	66
96	Light and the Heart 2019 , 152-169		1
95	Specific Therapy Based on the Genotype in a Malignant Form of Long QT3, Carrying the V411M Mutation. <i>International Heart Journal</i> , 2019 , 60, 979-982	1.8	4
94	Cardiac optogenetics: the next frontier. <i>Europace</i> , 2018 , 20, 1910-1918	3.9	6
93	Human Induced Pluripotent Stem Cell-Derived Cardiac Cell Sheets Expressing Genetically Encoded Voltage Indicator for Pharmacological and Arrhythmia Studies. <i>Stem Cell Reports</i> , 2018 , 10, 1879-1894	8	47
92	Defined Engineered Human Myocardium With Advanced Maturation for Applications in Heart Failure Modeling and Repair. <i>Circulation</i> , 2017 , 135, 1832-1847	16.7	328
91	Patient-Specific Drug Screening Using a Human Induced Pluripotent Stem Cell Model of Catecholaminergic Polymorphic Ventricular Tachycardia Type 2. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017 , 10,	6.4	30
90	Sinoatrial node cardiomyocytes derived from human pluripotent cells function as a biological pacemaker. <i>Nature Biotechnology</i> , 2017 , 35, 56-68	44.5	204
89	Pluripotent Stem Cell-Based Platforms in Cardiac Disease Modeling and Drug Testing. <i>Clinical Pharmacology and Therapeutics</i> , 2017 , 102, 203-208	6.1	18
88	Modeling Atrial Fibrillation using Human Embryonic Stem Cell-Derived Atrial Tissue. <i>Scientific Reports</i> , 2017 , 7, 5268	4.9	45
87	Electrospun Extracellular Matrix: Paving the Way to Tailor-Made Natural Scaffolds for Cardiac Tissue Regeneration. <i>Advanced Functional Materials</i> , 2017 , 27, 1700427	15.6	47
86	Making better scar: Emerging approaches for modifying mechanical and electrical properties following infarction and ablation. <i>Progress in Biophysics and Molecular Biology</i> , 2016 , 120, 134-48	4.7	25
85	The Third Intron of the Interferon Regulatory Factor-8 Is an Initiator of Repressed Chromatin Restricting Its Expression in Non-Immune Cells. <i>PLoS ONE</i> , 2016 , 11, e0156812	3.7	4
84	Optogenetics for in vivo cardiac pacing and resynchronization therapies. <i>Nature Biotechnology</i> , 2015 , 33, 750-4	44.5	137

83	Optogenetics for suppression of cardiac electrical activity in human and rat cardiomyocyte cultures. <i>Neurophotonics</i> , 2015 , 2, 031204	3.9	23
82	Uncovering the Role of Hypermethylation by CTG Expansion in Myotonic Dystrophy Type 1 Using Mutant Human Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2015 , 5, 221-31	8	29
81	Monitoring Human-Induced Pluripotent Stem Cell-Derived Cardiomyocytes with Genetically Encoded Calcium and Voltage Fluorescent Reporters. <i>Stem Cell Reports</i> , 2015 , 5, 582-96	8	83
80	Electrocardiographic comparison of ventricular premature complexes during exercise test in patients with CPVT and healthy subjects. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2015 , 38, 398-402	1.6	12
79	Genome editing of isogenic human induced pluripotent stem cells recapitulates long QT phenotype for drug testing. <i>Journal of the American College of Cardiology</i> , 2014 , 64, 451-9	15.1	123
78	Concise review: reprogramming strategies for cardiovascular regenerative medicine: from induced pluripotent stem cells to direct reprogramming. <i>Stem Cells Translational Medicine</i> , 2014 , 3, 448-57	6.9	18
77	Modulation of cardiac tissue electrophysiological properties with light-sensitive proteins. <i>Cardiovascular Research</i> , 2014 , 102, 176-87	9.9	72
76	Ablation of idiopathic ventricular fibrillation triggered by ventricular premature beat originating from myocardium of right ventricle: Case report. <i>Journal of Cardiology Cases</i> , 2014 , 9, 109-112	0.6	
75	Derivation and cardiomyocyte differentiation of induced pluripotent stem cells from heart failure patients. <i>European Heart Journal</i> , 2013 , 34, 1575-86	9.5	61
74	Flecainide therapy suppresses exercise-induced ventricular arrhythmias in patients with CASQ2-associated catecholaminergic polymorphic ventricular tachycardia. <i>Heart Rhythm</i> , 2013 , 10, 1671-5	6.7	39
73	Modeling of arrhythmogenic right ventricular cardiomyopathy with human induced pluripotent stem cells. <i>Circulation: Cardiovascular Genetics</i> , 2013 , 6, 557-68		127
72	Chronic Akt1 deficiency attenuates adverse remodeling and enhances angiogenesis after myocardial infarction. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 992-1000	3.9	10
71	Gap junctions, stem cells, and cell therapy: rhythmic/arrhythmic implications. <i>Heart Rhythm</i> , 2012 , 9, 1512-6	6.7	2
70	Hollow nanoneedle array and its utilization for repeated administration of biomolecules to the same cells. <i>ACS Nano</i> , 2012 , 6, 4940-6	16.7	68
69	Induced pluripotent stem cells for cardiac repair. <i>Cellular and Molecular Life Sciences</i> , 2012 , 69, 3285-99	10.3	36
68	Modeling of catecholaminergic polymorphic ventricular tachycardia with patient-specific human-induced pluripotent stem cells. <i>Journal of the American College of Cardiology</i> , 2012 , 60, 990-1000	15.1	167
67	Importance of ventricular tachycardia storms not terminated by implantable cardioverter defibrillators shocks in patients with CASQ2 associated catecholaminergic polymorphic ventricular tachycardia. <i>American Journal of Cardiology</i> , 2012 , 110, 72-6	3	21
66	Cardiac safety pharmacology: from human ether-a-gogo related gene channel block towards induced pluripotent stem cell based disease models. <i>Expert Opinion on Drug Safety</i> , 2012 , 11, 285-98	4.1	27

65	Circadian pattern of life-threatening ventricular arrhythmia in patients with sleep-disordered breathing and implantable cardioverter-defibrillators. <i>Heart Rhythm</i> , 2011 , 8, 657-62	6.7	52
64	Biologic Pacemakers: Past, Present, and Future. <i>Cardiac Electrophysiology Clinics</i> , 2011 , 3, 69-76	1.4	
63	A combined gene and cell therapy approach for restoration of conduction. <i>Heart Rhythm</i> , 2011 , 8, 121-30	6.7	13
62	Scalable production of cardiomyocytes derived from c-Myc free induced pluripotent stem cells. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1027-37	3.9	15
61	Calcium handling in human induced pluripotent stem cell derived cardiomyocytes. <i>PLoS ONE</i> , 2011 , 6, e18037	3.7	139
60	Modelling the long QT syndrome with induced pluripotent stem cells. <i>Nature</i> , 2011 , 471, 225-9	50.4	803
59	A combined cell therapy and in-situ tissue-engineering approach for myocardial repair. <i>Biomaterials</i> , 2011 , 32, 7514-23	15.6	75
58	Reprogramming of telomeric regions during the generation of human induced pluripotent stem cells and subsequent differentiation into fibroblast-like derivatives. <i>Epigenetics</i> , 2011 , 6, 63-75	5.7	58
57	High-resolution optical mapping of ventricular tachycardia in rats with chronic myocardial infarction. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2010 , 33, 687-95	1.6	19
56	Cell and gene therapy strategies for the treatment of postmyocardial infarction ventricular arrhythmias. <i>Annals of the New York Academy of Sciences</i> , 2010 , 1188, 32-8	6.5	11
55	Vascularization shaping the heart. <i>Annals of the New York Academy of Sciences</i> , 2010 , 1188, 46-51	6.5	23
54	Transplantation of a tissue-engineered human vascularized cardiac muscle. <i>Tissue Engineering - Part A</i> , 2010 , 16, 115-25	3.9	197
53	Modulation of excessive neuronal activity by fibroblasts: potential use in treatment of Parkinson disease. <i>Restorative Neurology and Neuroscience</i> , 2010 , 28, 803-15	2.8	3
52	In vivo assessment of the electrophysiological integration and arrhythmogenic risk of myocardial cell transplantation strategies. <i>Stem Cells</i> , 2010 , 28, 2151-61	5.8	75
51	Cardiomyocyte differentiation of human induced pluripotent stem cells. <i>Circulation</i> , 2009 , 120, 1513-23	16.7	332
50	A photopolymerizable hydrogel for 3-D culture of human embryonic stem cell-derived cardiomyocytes and rat neonatal cardiac cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 46, 213-24	5.8	59
49	In vitro electrophysiological drug testing using human embryonic stem cell derived cardiomyocytes. <i>Stem Cells and Development</i> , 2009 , 18, 161-72	4.4	183
48	Human embryonic stem cells for cardiomyogenesis. <i>Journal of Molecular and Cellular Cardiology</i> , 2008 , 45, 462-74	5.8	43

47	Electrophysiologic implications of myocardial stem cell therapies. <i>Heart Rhythm</i> , 2008 , 5, S48-52	6.7	8
46	Cell therapy for modification of the myocardial electrophysiological substrate. <i>Circulation</i> , 2008 , 117, 720-31	16.7	47
45	Hydrogels for cardiac tissue regeneration. <i>Bio-Medical Materials and Engineering</i> , 2008 , 18, 309-314	1	5
44	Calcium handling in human embryonic stem cell-derived cardiomyocytes. <i>Stem Cells</i> , 2008 , 26, 1961-72	5.8	148
43	Experimental molecular and stem cell therapies in cardiac electrophysiology. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1123, 224-31	6.5	4
42	Hydrogels for cardiac tissue regeneration. <i>Bio-Medical Materials and Engineering</i> , 2008 , 18, 309-14	1	9
41	Transplantation of human embryonic stem cell-derived cardiomyocytes improves myocardial performance in infarcted rat hearts. <i>Journal of the American College of Cardiology</i> , 2007 , 50, 1884-93	15.1	459
40	Tissue engineering of vascularized cardiac muscle from human embryonic stem cells. <i>Circulation Research</i> , 2007 , 100, 263-72	15.7	478
39	Electrophysiological coupling of transplanted cardiomyocytes. <i>Circulation Research</i> , 2007 , 101, 433-5	15.7	4
38	Identification and selection of cardiomyocytes during human embryonic stem cell differentiation. <i>FASEB Journal</i> , 2007 , 21, 2551-63	0.9	229
37	Myocardial regeneration strategies using human embryonic stem cell-derived cardiomyocytes. <i>Journal of Controlled Release</i> , 2006 , 116, 211-8	11.7	23
36	From gene therapy and stem cells to clinical electrophysiology. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2006 , 29, 996-1005	1.6	4
35	Calcium handling in embryonic stem cell-derived cardiac myocytes: of mice and men. <i>Annals of the New York Academy of Sciences</i> , 2006 , 1080, 207-15	6.5	36
34	Cardiovascular therapeutic aspects of cell therapy and stem cells. <i>Annals of the New York Academy of Sciences</i> , 2006 , 1080, 415-25	6.5	7
33	Differentiation pathways in human embryonic stem cell-derived cardiomyocytes. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1047, 50-65	6.5	46
32	Usefulness of electroanatomical mapping to differentiate between right ventricular outflow tract tachycardia and arrhythmogenic right ventricular dysplasia. <i>American Journal of Cardiology</i> , 2005 , 95, 935-40	3	35
31	Stem cells as biological heart pacemakers. <i>Expert Opinion on Biological Therapy</i> , 2005 , 5, 1531-7	5.4	16
30	Restoration of heart functions using human embryonic stem cells derived heart muscle cells. <i>Discovery Medicine</i> , 2005 , 5, 11-7	2.5	1

29	Electroanatomical mapping and radiofrequency ablation of an accessory pathway associated with a large aneurysm of the coronary sinus. <i>Europace</i> , 2004 , 6, 608-12	3.9	7
28	Electromechanical integration of cardiomyocytes derived from human embryonic stem cells. <i>Nature Biotechnology</i> , 2004 , 22, 1282-9	44.5	73 ⁸
27	Mechanism of spontaneous excitability in human embryonic stem cell derived cardiomyocytes. <i>Journal of Physiology</i> , 2004 , 559, 479-96	3.9	228
26	Potential applications of human embryonic stem cell-derived cardiomyocytes. <i>Annals of the New York Academy of Sciences</i> , 2004 , 1015, 285-98	6.5	28
25	Controlling the cellular organization of tissue-engineered cardiac constructs. <i>Annals of the New York Academy of Sciences</i> , 2004 , 1015, 299-311	6.5	52
24	Human embryonic stem cells for myocardial regeneration. <i>Heart Failure Reviews</i> , 2003 , 8, 229-36	5	49
23	Development of cardiomyocytes from human ES cells. <i>Methods in Enzymology</i> , 2003 , 365, 461-73	1.7	18
22	Temporal changes in the endocardial ST segment during the evolution of myocardial infarction in dogs. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2002 , 25, 1616-23	1.6	
21	High-resolution electrophysiological assessment of human embryonic stem cell-derived cardiomyocytes: a novel in vitro model for the study of conduction. <i>Circulation Research</i> , 2002 , 91, 659-667	15.7	254
20	Derivation and potential applications of human embryonic stem cells. <i>Circulation Research</i> , 2002 , 91, 866-76	15.7	190
19	Electrophysiological modulation of cardiomyocytic tissue by transfected fibroblasts expressing potassium channels: a novel strategy to manipulate excitability. <i>Circulation</i> , 2002 , 105, 522-9	16.7	98
18	Low-energy laser irradiation reduces formation of scar tissue after myocardial infarction in rats and dogs. <i>Circulation</i> , 2001 , 103, 296-301	16.7	144
17	Accurate linear radiofrequency lesions guided by a nonfluoroscopic electroanatomic mapping method during atrial fibrillation. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2001 , 24, 1672-8	1.6	7
16	Attenuation of infarct size in rats and dogs after myocardial infarction by low-energy laser irradiation. <i>Lasers in Surgery and Medicine</i> , 2001 , 28, 204-11	3.6	105
15	Online myocardial viability assessment in the catheterization laboratory via NOGA electroanatomic mapping: Quantitative comparison with thallium-201 uptake. <i>Circulation</i> , 2001 , 104, 1005-11	16.7	32
14	Derivation and properties of human embryonic stem cell-derived cardiomyocytes. <i>Gene Therapy and Regulation</i> , 2001 , 1, 387-398		1
13	Detailed endocardial mapping accurately predicts the transmural extent of myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2001 , 37, 1590-7	15.1	52
12	Electroanatomic mapping of arrhythmogenic right ventricular dysplasia. <i>Journal of the American College of Cardiology</i> , 2001 , 38, 2020-7	15.1	72

11	Three-dimensional endocardial impedance mapping: a new approach for myocardial infarction assessment. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H179-88	5.2	18
10	Technical delivery of myogenic cells through an endocardial injection catheter for myocardial cell implantation. <i>International Journal of Cardiovascular Interventions</i> , 2000 , 3, 227-230		10
9	Atrial linear ablations in pigs. Chronic effects on atrial electrophysiology and pathology. <i>Circulation</i> , 1999 , 100, 419-26	16.7	53
8	Electroanatomical mapping of the heart: basic concepts and implications for the treatment of cardiac arrhythmias. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1998 , 21, 1268-78	1.6	67
7	Electromechanical characterization of chronic myocardial infarction in the canine coronary occlusion model. <i>Circulation</i> , 1998 , 98, 2055-64	16.7	102
6	Preliminary animal and clinical experiences using an electromechanical endocardial mapping procedure to distinguish infarcted from healthy myocardium. <i>Circulation</i> , 1998 , 98, 1116-24	16.7	157
5	A novel method for nonfluoroscopic catheter-based electroanatomical mapping of the heart. In vitro and in vivo accuracy results. <i>Circulation</i> , 1997 , 95, 1611-22	16.7	493
4	Hemodynamic evaluation of the heart with a nonfluoroscopic electromechanical mapping technique. <i>Circulation</i> , 1997 , 96, 3672-80	16.7	56
3	Activation-repolarization coupling in the normal swine endocardium. <i>Circulation</i> , 1997 , 96, 4036-43	16.7	51
2	Guidance of radiofrequency endocardial ablation with real-time three-dimensional magnetic navigation system. <i>Circulation</i> , 1997 , 96, 2016-21	16.7	104
1	Nonfluoroscopic, in vivo navigation and mapping technology. <i>Nature Medicine</i> , 1996 , 2, 1393-5	50.5	327