

Richard T Lee

List of Publications by Citations

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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.

139
papers

14,885
citations

58
h-index

121
g-index

155
ext. papers

17,313
ext. citations

13.4
avg, IF

6.67
L-index

#	Paper	IF	Citations
139	Stem-cell therapy for cardiac disease. <i>Nature</i> , 2008 , 451, 937-42	50.4	948
138	Mammalian heart renewal by pre-existing cardiomyocytes. <i>Nature</i> , 2013 , 493, 433-6	50.4	918
137	IL-33 and ST2 comprise a critical biomechanically induced and cardioprotective signaling system. <i>Journal of Clinical Investigation</i> , 2007 , 117, 1538-49	15.9	717
136	Braveheart, a long noncoding RNA required for cardiovascular lineage commitment. <i>Cell</i> , 2013 , 152, 570-82	50.2	701
135	Vascular and neurogenic rejuvenation of the aging mouse brain by young systemic factors. <i>Science</i> , 2014 , 344, 630-4	33.3	655
134	Growth differentiation factor 11 is a circulating factor that reverses age-related cardiac hypertrophy. <i>Cell</i> , 2013 , 153, 828-39	56.2	629
133	Evidence from a genetic fate-mapping study that stem cells refresh adult mammalian cardiomyocytes after injury. <i>Nature Medicine</i> , 2007 , 13, 970-4	50.5	621
132	Restoring systemic GDF11 levels reverses age-related dysfunction in mouse skeletal muscle. <i>Science</i> , 2014 , 344, 649-52	33.3	568
131	The IL-33/ST2 pathway: therapeutic target and novel biomarker. <i>Nature Reviews Drug Discovery</i> , 2008 , 7, 827-40	64.1	496
130	Bone marrow-derived cell therapy stimulates endogenous cardiomyocyte progenitors and promotes cardiac repair. <i>Cell Stem Cell</i> , 2011 , 8, 389-98	18	338
129	TXNIP regulates peripheral glucose metabolism in humans. <i>PLoS Medicine</i> , 2007 , 4, e158	11.6	336
128	Local delivery of protease-resistant stromal cell derived factor-1 for stem cell recruitment after myocardial infarction. <i>Circulation</i> , 2007 , 116, 1683-92	16.7	304
127	Cardiac stem cell therapy and the promise of heart regeneration. <i>Cell Stem Cell</i> , 2013 , 12, 689-98	18	292
126	Cardiomyocyte Regeneration: A Consensus Statement. <i>Circulation</i> , 2017 , 136, 680-686	16.7	287
125	Interleukin-33 prevents apoptosis and improves survival after experimental myocardial infarction through ST2 signaling. <i>Circulation: Heart Failure</i> , 2009 , 2, 684-91	7.6	256
124	Intramyocardial fibroblast myocyte communication. <i>Circulation Research</i> , 2010 , 106, 47-57	15.7	251
123	Thioredoxin and thioredoxin target proteins: from molecular mechanisms to functional significance. <i>Antioxidants and Redox Signaling</i> , 2013 , 18, 1165-207	8.4	238

122	Complementary roles for biomarkers of biomechanical strain ST2 and N-terminal prohormone B-type natriuretic peptide in patients with ST-elevation myocardial infarction. <i>Circulation</i> , 2008 , 117, 1936-44	16.7	238
121	Multi-isotope imaging mass spectrometry quantifies stem cell division and metabolism. <i>Nature</i> , 2012 , 481, 516-9	50.4	224
120	Developing multiplexed assays for troponin I and interleukin-33 in plasma by peptide immunoaffinity enrichment and targeted mass spectrometry. <i>Clinical Chemistry</i> , 2009 , 55, 1108-17	5.5	219
119	Interleukin 33 as a mechanically responsive cytokine secreted by living cells. <i>Journal of Biological Chemistry</i> , 2012 , 287, 6941-8	5.4	216
118	Cardiac progenitor cells and biotinylated insulin-like growth factor-1 nanofibers improve endogenous and exogenous myocardial regeneration after infarction. <i>Circulation</i> , 2009 , 120, 876-87	16.7	178
117	Notch signaling regulates cardiomyocyte proliferation during zebrafish heart regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1403-8	11.5	164
116	Nerves Regulate Cardiomyocyte Proliferation and Heart Regeneration. <i>Developmental Cell</i> , 2015 , 34, 387-99	10.2	162
115	Mechanisms of Cardiac Regeneration. <i>Developmental Cell</i> , 2016 , 36, 362-74	10.2	156
114	Increased mechanosensitivity and nuclear stiffness in Hutchinson-Gilford progeria cells: effects of farnesyltransferase inhibitors. <i>Aging Cell</i> , 2008 , 7, 383-93	9.9	151
113	Biomaterials to enhance stem cell function in the heart. <i>Circulation Research</i> , 2011 , 109, 910-22	15.7	148
112	Thioredoxin-independent regulation of metabolism by the alpha-arrestin proteins. <i>Journal of Biological Chemistry</i> , 2009 , 284, 24996-5003	5.4	136
111	Setting Global Standards for Stem Cell Research and Clinical Translation: The 2016 ISSCR Guidelines. <i>Stem Cell Reports</i> , 2016 , 6, 787-797	8	136
110	Thioredoxin-interacting protein (Txnip) is a critical regulator of hepatic glucose production. <i>Journal of Biological Chemistry</i> , 2008 , 283, 2397-406	5.4	132
109	Heart failure with preserved ejection fraction: molecular pathways of the aging myocardium. <i>Circulation Research</i> , 2014 , 115, 97-107	15.7	124
108	Circulating Growth Differentiation Factor 11/8 Levels Decline With Age. <i>Circulation Research</i> , 2016 , 118, 29-37	15.7	122
107	A REDD1/TXNIP pro-oxidant complex regulates ATG4B activity to control stress-induced autophagy and sustain exercise capacity. <i>Nature Communications</i> , 2015 , 6, 7014	17.4	122
106	Mechanical control of tissue morphogenesis. <i>Circulation Research</i> , 2008 , 103, 234-43	15.7	121
105	Biochemistry and Biology of GDF11 and Myostatin: Similarities, Differences, and Questions for Future Investigation. <i>Circulation Research</i> , 2016 , 118, 1125-41; discussion 1142	15.7	116

104	Role of ST2 in non-ST-elevation acute coronary syndrome in the MERLIN-TIMI 36 trial. <i>Clinical Chemistry</i> , 2012 , 58, 257-66	5.5	115
103	Deletion of thioredoxin-interacting protein in mice impairs mitochondrial function but protects the myocardium from ischemia-reperfusion injury. <i>Journal of Clinical Investigation</i> , 2012 , 122, 267-79	15.9	112
102	The continuous heart failure spectrum: moving beyond an ejection fraction classification. <i>European Heart Journal</i> , 2019 , 40, 2155-2163	9.5	107
101	Deletion of the alpha-arrestin protein Txnip in mice promotes adiposity and adipogenesis while preserving insulin sensitivity. <i>Diabetes</i> , 2010 , 59, 1424-34	0.9	106
100	Regeneration of the heart. <i>EMBO Molecular Medicine</i> , 2011 , 3, 701-12	12	104
99	Myocardial pressure overload induces systemic inflammation through endothelial cell IL-33. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7249-54	11.5	102
98	Transcriptional reversion of cardiac myocyte fate during mammalian cardiac regeneration. <i>Circulation Research</i> , 2015 , 116, 804-15	15.7	97
97	Protein therapeutics for cardiac regeneration after myocardial infarction. <i>Journal of Cardiovascular Translational Research</i> , 2010 , 3, 469-77	3.3	89
96	Cardiac regeneration based on mechanisms of cardiomyocyte proliferation and differentiation. <i>Stem Cell Research</i> , 2014 , 13, 532-41	1.6	87
95	Local delivery of proteins and the use of self-assembling peptides. <i>Drug Discovery Today</i> , 2007 , 12, 561-88.8		87
94	Common genetic variation at the IL1RL1 locus regulates IL-33/ST2 signaling. <i>Journal of Clinical Investigation</i> , 2013 , 123, 4208-18	15.9	87
93	The arrestin domain-containing 3 protein regulates body mass and energy expenditure. <i>Cell Metabolism</i> , 2011 , 14, 671-83	24.6	86
92	Multiscale technologies for treatment of ischemic cardiomyopathy. <i>Nature Nanotechnology</i> , 2017 , 12, 845-855	28.7	84
91	Mechanical Skin Injury Promotes Food Anaphylaxis by Driving Intestinal Mast Cell Expansion. <i>Immunity</i> , 2019 , 50, 1262-1275.e4	32.3	83
90	Exercise induces new cardiomyocyte generation in the adult mammalian heart. <i>Nature Communications</i> , 2018 , 9, 1659	17.4	83
89	Targeted deletion of thioredoxin-interacting protein regulates cardiac dysfunction in response to pressure overload. <i>Circulation Research</i> , 2007 , 101, 1328-38	15.7	83
88	An expanded family of arrestins regulate metabolism. <i>Trends in Endocrinology and Metabolism</i> , 2012 , 23, 216-22	8.8	80
87	Identification of targeting peptides for ischemic myocardium by in vivo phage display. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 841-8	5.8	72

86	Cell nuclei spin in the absence of lamin b1. <i>Journal of Biological Chemistry</i> , 2007 , 282, 20015-26	5.4	72
85	An engineered bivalent neuregulin protects against doxorubicin-induced cardiotoxicity with reduced proneoplastic potential. <i>Circulation</i> , 2013 , 128, 152-61	16.7	69
84	Simultaneous or Sequential Orthogonal Gradient Formation in a 3D Cell Culture Microfluidic Platform. <i>Small</i> , 2016 , 12, 612-22	11	69
83	Structural basis for potency differences between GDF8 and GDF11. <i>BMC Biology</i> , 2017 , 15, 19	7.3	63
82	Stromal cell-derived factor-1 retention and cardioprotection for ischemic myocardium. <i>Circulation: Heart Failure</i> , 2011 , 4, 509-18	7.6	63
81	Multi-investigator letter on reproducibility of neonatal heart regeneration following apical resection. <i>Stem Cell Reports</i> , 2014 , 3, 1	8	58
80	Self-assembling peptide nanofibers and skeletal myoblast transplantation in infarcted myocardium. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 87, 222-8	3.5	54
79	Synovial fibroblasts promote the expression and granule accumulation of tryptase via interleukin-33 and its receptor ST-2 (IL1RL1). <i>Journal of Biological Chemistry</i> , 2010 , 285, 21478-86	5.4	53
78	Intraarticular injection of heparin-binding insulin-like growth factor 1 sustains delivery of insulin-like growth factor 1 to cartilage through binding to chondroitin sulfate. <i>Arthritis and Rheumatism</i> , 2010 , 62, 3686-94		50
77	Genetically engineered resistance for MMP collagenases promotes abdominal aortic aneurysm formation in mice infused with angiotensin II. <i>Laboratory Investigation</i> , 2009 , 89, 315-26	5.9	48
76	Myocardial infarction triggers chronic cardiac autoimmunity in type 1 diabetes. <i>Science Translational Medicine</i> , 2012 , 4, 138ra80	17.5	43
75	Biochemical and mechanical dysfunction in a mouse model of desmin-related myopathy. <i>Circulation Research</i> , 2009 , 104, 1021-8	15.7	42
74	Protease-resistant stromal cell-derived factor-1 for the treatment of experimental peripheral artery disease. <i>Circulation</i> , 2011 , 123, 1306-15	16.7	42
73	Thioredoxin regulates adipogenesis through thioredoxin-interacting protein (Txnip) protein stability. <i>Journal of Biological Chemistry</i> , 2011 , 286, 29139-29145	5.4	41
72	Protein engineering for cardiovascular therapeutics: untapped potential for cardiac repair. <i>Circulation Research</i> , 2013 , 113, 933-43	15.7	38
71	IL-33/regulatory T cell axis triggers the development of a tumor-promoting immune environment in chronic inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2646-2651	11.5	36
70	Complement Receptor C5aR1 Plays an Evolutionarily Conserved Role in Successful Cardiac Regeneration. <i>Circulation</i> , 2018 , 137, 2152-2165	16.7	36
69	Inhibition of mTOR Signaling Enhances Maturation of Cardiomyocytes Derived From Human-Induced Pluripotent Stem Cells via p53-Induced Quiescence. <i>Circulation</i> , 2020 , 141, 285-300	16.7	36

68	Thioredoxin-interacting protein regulates protein disulfide isomerases and endoplasmic reticulum stress. <i>EMBO Molecular Medicine</i> , 2014 , 6, 732-43	12	35
67	Targeted delivery to cartilage is critical for in vivo efficacy of insulin-like growth factor 1 in a rat model of osteoarthritis. <i>Arthritis and Rheumatology</i> , 2014 , 66, 1247-55	9.5	33
66	A low resistance microfluidic system for the creation of stable concentration gradients in a defined 3D microenvironment. <i>Biomedical Microdevices</i> , 2010 , 12, 1027-41	3.7	31
65	Microbead-based biomimetic synthetic neighbors enhance survival and function of rat pancreatic β cells. <i>Scientific Reports</i> , 2013 , 3, 2863	4.9	30
64	The heparin-binding domain of HB-EGF mediates localization to sites of cell-cell contact and prevents HB-EGF proteolytic release. <i>Journal of Cell Science</i> , 2010 , 123, 2308-18	5.3	29
63	Engineering insulin-like growth factor-1 for local delivery. <i>FASEB Journal</i> , 2008 , 22, 1886-93	0.9	29
62	Cardiac myosin binding protein C regulates postnatal myocyte cytokinesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9046-51	11.5	28
61	Engineering of Mature Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Using Substrates with Multiscale Topography. <i>Advanced Functional Materials</i> , 2018 , 28, 1707378	15.6	27
60	Diabetes regulates fructose absorption through thioredoxin-interacting protein. <i>ELife</i> , 2016 , 5,	8.9	27
59	The Future of Cardiovascular Regenerative Medicine. <i>Circulation</i> , 2016 , 133, 2618-25	16.7	26
58	Proteins and small molecules for cellular regenerative medicine. <i>Physiological Reviews</i> , 2013 , 93, 311-25	47.9	26
57	Nanoscale Technologies for Prevention and Treatment of Heart Failure: Challenges and Opportunities. <i>Chemical Reviews</i> , 2019 , 119, 11352-11390	68.1	24
56	Salvianolic acid B-vitamin C synergy in cardiac differentiation from embryonic stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 387, 723-8	3.4	24
55	Delivering heparin-binding insulin-like growth factor 1 with self-assembling peptide hydrogels. <i>Tissue Engineering - Part A</i> , 2015 , 21, 637-46	3.9	23
54	Molecular characterization of latent GDF8 reveals mechanisms of activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E866-E875	11.5	23
53	Thioredoxin-interacting protein and myocardial mitochondrial function in ischemia-reperfusion injury. <i>Trends in Cardiovascular Medicine</i> , 2014 , 24, 75-80	6.9	23
52	Model systems for cardiovascular regenerative biology. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2013 , 3, a014019	5.4	22
51	Development biology. Turnover after the fallout. <i>Science</i> , 2009 , 324, 47-8	33.3	20

50	Engineered bivalent ligands to bias ErbB receptor-mediated signaling and phenotypes. <i>Journal of Biological Chemistry</i> , 2011 , 286, 27729-40	5.4	19
49	Growth Factor-Mediated Migration of Bone Marrow Progenitor Cells for Accelerated Scaffold Recruitment. <i>Tissue Engineering - Part A</i> , 2016 , 22, 917-27	3.9	18
48	Exercise training reverses cardiac aging phenotypes associated with heart failure with preserved ejection fraction in male mice. <i>Aging Cell</i> , 2020 , 19, e13159	9.9	16
47	Mechanical properties of interphase nuclei probed by cellular strain application. <i>Methods in Molecular Biology</i> , 2009 , 464, 13-26	1.4	16
46	Molecular mechanisms of heart regeneration. <i>Seminars in Cell and Developmental Biology</i> , 2020 , 100, 20-28	7.5	16
45	Arrestin domain-containing 3 (<i>Arrdc3</i>) modulates insulin action and glucose metabolism in liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 6733-6740	11.5	14
44	Is heart regeneration on the right track?. <i>Nature Medicine</i> , 2013 , 19, 412-3	50.5	14
43	Torn apart: membrane rupture in muscular dystrophies and associated cardiomyopathies. <i>Journal of Clinical Investigation</i> , 2007 , 117, 1749-52	15.9	14
42	Tethering of Epidermal Growth Factor (EGF) to Beta Tricalcium Phosphate (β CP) via Fusion to a High Affinity, Multimeric β CP-Binding Peptide: Effects on Human Multipotent Stromal Cells/Connective Tissue Progenitors. <i>PLoS ONE</i> , 2015 , 10, e0129600	3.7	13
41	Interleukin-33 primes mast cells for activation by IgG immune complexes. <i>PLoS ONE</i> , 2012 , 7, e47252	3.7	13
40	Analysis of Cre-mediated genetic deletion of in cardiomyocytes of young mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 317, H201-H212	5.2	12
39	Vascularization as a potential enemy in valvular heart disease. <i>Circulation</i> , 2008 , 118, 1694-6	16.7	11
38	Keep PNUTS in your heart. <i>Circulation Research</i> , 2013 , 113, 97-9	15.7	10
37	Mechanical stretch and intimal hyperplasia: the missing link?. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 459-60	9.4	10
36	Cardiovascular regeneration: pushing and pulling on progenitors. <i>Cell Stem Cell</i> , 2009 , 4, 277-8	18	10
35	Mitochondria and metabolic transitions in cardiomyocytes: lessons from development for stem cell-derived cardiomyocytes. <i>Stem Cell Research and Therapy</i> , 2021 , 12, 177	8.3	10
34	A sensitive chemotaxis assay using a novel microfluidic device. <i>BioMed Research International</i> , 2013 , 2013, 373569	3	9
33	Senescence mechanisms and targets in the heart. <i>Cardiovascular Research</i> , 2021 ,	9.9	8

32	Dysregulation of IL-33/ST2 signaling and myocardial periarteriolar fibrosis. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 128, 179-186	5.8	7
31	Exogenous GDF11, but not GDF8, reduces body weight and improves glucose homeostasis in mice. <i>Scientific Reports</i> , 2020 , 10, 4561	4.9	7
30	Pericyte progenitors at the crossroads between fibrosis and regeneration. <i>Circulation Research</i> , 2013 , 112, 230-2	15.7	7
29	Three-dimensional cardiac architecture determined by two-photon microtomy. <i>Journal of Biomedical Optics</i> , 2009 , 14, 044029	3.5	7
28	In vivo glucose imaging in multiple model organisms with an engineered single-wavelength sensor. <i>Cell Reports</i> , 2021 , 35, 109284	10.6	7
27	Steady-state and regenerative hematopoiesis occurs normally in mice in the absence of GDF11. <i>Blood</i> , 2019 , 134, 1712-1716	2.2	6
26	ST2 and adrenomedullin in heart failure. <i>Heart Failure Clinics</i> , 2009 , 5, 515-27	3.3	6
25	Adipocyte arrestin domain-containing 3 protein (Arrdc3) regulates uncoupling protein 1 (Ucp1) expression in white adipose independently of canonical changes in β adrenergic receptor signaling. <i>PLoS ONE</i> , 2017 , 12, e0173823	3.7	6
24	Sustained Activation of AMPK Enhances Differentiation of Human iPSC-Derived Cardiomyocytes via Sirtuin Activation. <i>Stem Cell Reports</i> , 2020 , 15, 498-514	8	5
23	Pluripotent stem cell-derived cardiomyocytes for treatment of cardiomyopathic damage: Current concepts and future directions. <i>Trends in Cardiovascular Medicine</i> , 2021 , 31, 85-90	6.9	5
22	Prevalence of potential interactions of medications, including herbs and supplements, before, during, and after chemotherapy in patients with breast and prostate cancer. <i>Cancer</i> , 2021 , 127, 1827-1835	6.4	5
21	Soluble interleukin-13r1: a circulating regulator of glucose. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017 , 313, E663-E671	6	4
20	Apolipoprotein E is a pancreatic extracellular factor that maintains mature β cell gene expression. <i>PLoS ONE</i> , 2018 , 13, e0204595	3.7	4
19	SATB2 preserves colon stem cell identity and mediates ileum-colon conversion via enhancer remodeling. <i>Cell Stem Cell</i> , 2021 ,	18	4
18	Cardiovascular Mechanotransduction 2012 , 173-186		3
17	Thioredoxin Interacting Protein Is Required for a Chronic Energy-Rich Diet to Promote Intestinal Fructose Absorption. <i>iScience</i> , 2020 , 23, 101521	6.1	3
16	Variation in zygotic CRISPR/Cas9 gene editing outcomes generates novel reporter and deletion alleles at the Gdf11 locus. <i>Scientific Reports</i> , 2019 , 9, 18613	4.9	3
15	Heart regeneration: 20 years of progress and renewed optimism.. <i>Developmental Cell</i> , 2022 , 57, 424-439	10.2	3

14	Biomedical Applications: Engineering of Mature Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Using Substrates with Multiscale Topography (Adv. Funct. Mater. 19/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870128	15.6	1
13	Time-Saving Benefits of Intravital Staining. <i>Journal of Histotechnology</i> , 2008 , 31, 129-134	1.3	1
12	The Influence of Spirituality and Religiosity on US Oncologists' Personal Use of and Clinical Practices Regarding Complementary and Alternative Medicine. <i>Integrative Cancer Therapies</i> , 2020 , 19, 1534735420945769	3	1
11	Mistletoe Extract <i>Viscum Fraxini</i> -2 for Treatment of Advanced Hepatocellular Carcinoma: A Case Series. <i>Case Reports in Oncology</i> , 2021 , 14, 224-231	1	1
10	A Breakdown in Cooperativity Leads to Cardiac Identity Crisis. <i>Cell</i> , 2016 , 167, 1674-1676	56.2	1
9	Patching up the myocardium. <i>Circulation Research</i> , 2011 , 109, 480-1	15.7	0
8	Demographic and Clinical Predictors of Engaging in Tobacco Cessation Counseling at a Comprehensive Cancer Center.. <i>JCO Oncology Practice</i> , 2022 , OP2100458	2.3	0
7	Utilization of Complementary Alternative Medicine, Diet, and Exercise Among Women at High Risk for Developing Breast Cancer. <i>Integrative Cancer Therapies</i> , 2020 , 19, 1534735420922610	3	0
6	SARS-CoV-2 Susceptibility and Gene Variations Within Diverse Ethnic Backgrounds.. <i>Frontiers in Genetics</i> , 2022 , 13, 888025	4.5	0
5	Basic research: Suffocating the heart to stimulate regeneration. <i>Nature Reviews Cardiology</i> , 2016 , 14, 7-8	14.8	
4	Introduction to Cardiac Disease 2012 , 1-10		
3	Bioengineered Scaffolds: Myocytes, Endothelial Cells and Cardiac Repair 2007 , 183-191		
2	Physical and Mechanical Stress 129-139		
1	Knockout of <i>Txnip</i> in the Intestinal Epithelial Cells Abrogates the High Fat Diet-Induced Fructose Uptake in Mice. <i>FASEB Journal</i> , 2018 , 32, 757.2	0.9	