

# Jennifer Davis

## 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.

44  
papers

2,220  
citations

25  
h-index

47  
g-index

51  
ext. papers

2,664  
ext. citations

11.4  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
44	MBNL1 drives dynamic transitions between fibroblasts and myofibroblasts in cardiac wound healing.. <i>Cell Stem Cell</i> , <b>2022</b> ,	18	2
43	Controlling cardiac fibrosis through fibroblast state space modulation. <i>Cellular Signalling</i> , <b>2021</b> , 79, 109888	11.8	8
42	Engrafted Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Undergo Clonal Expansion In Vivo. <i>Circulation</i> , <b>2021</b> , 143, 1635-1638	16.7	4
41	The effect of variable troponin C mutation thin filament incorporation on cardiac muscle twitch contractions. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2021</b> , 155, 112-124	5.8	2
40	Engineering Heart Morphogenesis. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 835-845	15.1	7
39	A Rainbow Reporter Tracks Single Cells and Reveals Heterogeneous Cellular Dynamics among Pluripotent Stem Cells and Their Differentiated Derivatives. <i>Stem Cell Reports</i> , <b>2020</b> , 15, 226-241	8	9
38	Modulating the tension-time integral of the cardiac twitch prevents dilated cardiomyopathy in murine hearts. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	5
37	Regulators of cardiac fibroblast cell state. <i>Matrix Biology</i> , <b>2020</b> , 91-92, 117-135	11.4	15
36	Infarct Collagen Topography Regulates Fibroblast Fate via p38-Yes-Associated Protein Transcriptional Enhanced Associate Domain Signals. <i>Circulation Research</i> , <b>2020</b> , 127, 1306-1322	15.7	17
35	Spatial presentation of biological molecules to cells by localized diffusive transfer. <i>Lab on A Chip</i> , <b>2019</b> , 19, 2114-2126	7.2	1
34	The mitochondrial calcium uniporter underlies metabolic fuel preference in skeletal muscle. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	35
33	Mechanoregulation of Myofibroblast Fate and Cardiac Fibrosis. <i>Advanced Biology</i> , <b>2018</b> , 2, 1700172	3.5	13
32	Cyclic Stiffness Modulation of Cell-Laden Protein-Polymer Hydrogels in Response to User-Specified Stimuli including Light. <i>Advanced Biology</i> , <b>2018</b> , 2, 1800240	3.5	62
31	Fibroblast-Specific Genetic Manipulation of p38 Mitogen-Activated Protein Kinase In Vivo Reveals Its Central Regulatory Role in Fibrosis. <i>Circulation</i> , <b>2017</b> , 136, 549-561	16.7	157
30	Thrombospondin expression in myofibers stabilizes muscle membranes. <i>ELife</i> , <b>2016</b> , 5,	8.9	27
29	Molecular networks underlying myofibroblast fate and fibrosis. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2016</b> , 97, 153-61	5.8	86
28	A Tension-Based Model Distinguishes Hypertrophic versus Dilated Cardiomyopathy. <i>Cell</i> , <b>2016</b> , 165, 1147-1159	11.22	122

27	Muscular dystrophy in a dish: engineered human skeletal muscle mimetics for disease modeling and drug discovery. <i>Drug Discovery Today</i> , <b>2016</b> , 21, 1387-1398	8.8	39
26	<i>Nocardia farcinica</i> Meningitis Masquerading as Central Nervous System Metastasis in a Child With Cerebellar Pilocytic Astrocytoma. <i>Journal of Pediatric Hematology/Oncology</i> , <b>2015</b> , 37, 482-5	1.2	4
25	MBNL1-mediated regulation of differentiation RNAs promotes myofibroblast transformation and the fibrotic response. <i>Nature Communications</i> , <b>2015</b> , 6, 10084	17.4	43
24	Cardiac-specific deletion of protein phosphatase 1 $\alpha$ promotes increased myofilament protein phosphorylation and contractile alterations. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2015</b> , 87, 204-13 <sup>8</sup>	5.8	34
23	Transient receptor potential channels contribute to pathological structural and functional remodeling after myocardial infarction. <i>Circulation Research</i> , <b>2014</b> , 115, 567-580	15.7	84
22	Enhanced Ca $^{2+}$ influx from STIM1-Orai1 induces muscle pathology in mouse models of muscular dystrophy. <i>Human Molecular Genetics</i> , <b>2014</b> , 23, 3706-15	5.6	42
21	Overexpression of the Na $^{+}$ /K $^{+}$ ATPase $\beta$ but not $\beta$ isoform attenuates pathological cardiac hypertrophy and remodeling. <i>Circulation Research</i> , <b>2014</b> , 114, 249-256	15.7	43
20	Myofibroblasts: trust your heart and let fate decide. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2014</b> , 70, 9-18	5.8	211
19	Noncanonical EF-hand motif strategically delays Ca $^{2+}$ buffering to enhance cardiac performance. <i>Nature Medicine</i> , <b>2013</b> , 19, 305-12	50.5	34
18	Apoptosis repressor with a CARD domain (ARC) restrains Bax-mediated pathogenesis in dystrophic skeletal muscle. <i>PLoS ONE</i> , <b>2013</b> , 8, e82053	3.7	9
17	A TRPC6-dependent pathway for myofibroblast transdifferentiation and wound healing in vivo. <i>Developmental Cell</i> , <b>2012</b> , 23, 705-15	10.2	229
16	Diastolic dysfunction and thin filament dysregulation resulting from excitation-contraction uncoupling in a mouse model of restrictive cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2012</b> , 53, 446-57	5.8	19
15	Lost in transgenesis: a user's guide for genetically manipulating the mouse in cardiac research. <i>Circulation Research</i> , <b>2012</b> , 111, 761-77	15.7	78
14	Extracellular signal-regulated kinases 1 and 2 regulate the balance between eccentric and concentric cardiac growth. <i>Circulation Research</i> , <b>2011</b> , 108, 176-83	15.7	168
13	Heart-specific deletion of CnB1 reveals multiple mechanisms whereby calcineurin regulates cardiac growth and function. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 6716-24	5.4	36
12	Chronic administration of membrane sealant prevents severe cardiac injury and ventricular dilatation in dystrophic dogs. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 1140-50	15.9	90
11	Combinatorial effects of double cardiomyopathy mutant alleles in rodent myocytes: a predictive cellular model of myofilament dysregulation in disease. <i>PLoS ONE</i> , <b>2010</b> , 5, e9140	3.7	9
10	Allele and species dependent contractile defects by restrictive and hypertrophic cardiomyopathy-linked troponin I mutants. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2008</b> , 44, 891-904 <sup>8</sup>	5.8	33

9	Designing heart performance by gene transfer. <i>Physiological Reviews</i> , <b>2008</b> , 88, 1567-651	47.9	40
8	Relationship between muscle stress and intramuscular pressure during dynamic muscle contractions. <i>Muscle and Nerve</i> , <b>2007</b> , 36, 313-9	3.4	21
7	Parvalbumin isoforms differentially accelerate cardiac myocyte relaxation kinetics in an animal model of diastolic dysfunction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2007</b> , 293, H1705-13	5.2	20
6	Thin filament disinhibition by restrictive cardiomyopathy mutant R193H troponin I induces Ca <sup>2+</sup> -independent mechanical tone and acute myocyte remodeling. <i>Circulation Research</i> , <b>2007</b> , 100, 1494-502	15.7	59
5	Genetic engineering and therapy for inherited and acquired cardiomyopathies. <i>Annals of the New York Academy of Sciences</i> , <b>2006</b> , 1080, 437-50	6.5	4
4	Enteroendocrine cell expression of a cholecystokinin gene construct in transgenic mice and cultured cells. <i>American Journal of Physiology - Renal Physiology</i> , <b>2005</b> , 288, G354-61	5.1	9
3	Structural and functional roles of desmin in mouse skeletal muscle during passive deformation. <i>Biophysical Journal</i> , <b>2004</b> , 86, 2993-3008	2.9	101
2	Performance characteristics of a pressure microsensor. <i>Journal of Biomechanics</i> , <b>2003</b> , 36, 283-7	2.9	34
1	Correlation between active and passive isometric force and intramuscular pressure in the isolated rabbit tibialis anterior muscle. <i>Journal of Biomechanics</i> , <b>2003</b> , 36, 505-12	2.9	151