

# Douglas P Millay

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

3,380  
citations

201385

27  
h-index

243296

44  
g-index

52  
all docs

52  
docs citations

52  
times ranked

4032  
citing authors

#	ARTICLE	IF	CITATIONS
1	Myomaker is a membrane activator of myoblast fusion and muscle formation. <i>Nature</i> , 2013, 499, 301-305.	13.7	440
2	Genetic and pharmacologic inhibition of mitochondrial-dependent necrosis attenuates muscular dystrophy. <i>Nature Medicine</i> , 2008, 14, 442-447.	15.2	324
3	Single-nucleus RNA-seq identifies transcriptional heterogeneity in multinucleated skeletal myofibers. <i>Nature Communications</i> , 2020, 11, 6374.	5.8	187
4	Myomerger induces fusion of non-fusogenic cells and is required for skeletal muscle development. <i>Nature Communications</i> , 2017, 8, 15665.	5.8	186
5	Calcium influx is sufficient to induce muscular dystrophy through a TRPC-dependent mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19023-19028.	3.3	184
6	Genetic Loss of Calcineurin Blocks Mechanical Overload-induced Skeletal Muscle Fiber Type Switching but Not Hypertrophy. <i>Journal of Biological Chemistry</i> , 2004, 279, 26192-26200.	1.6	160
7	Mitigation of muscular dystrophy in mice by SERCA overexpression in skeletal muscle. <i>Journal of Clinical Investigation</i> , 2011, 121, 1044-1052.	3.9	157
8	Myomaker is essential for muscle regeneration. <i>Genes and Development</i> , 2014, 28, 1641-1646.	2.7	141
9	Requirement of myomaker-mediated stem cell fusion for skeletal muscle hypertrophy. <i>ELife</i> , 2017, 6, .	2.8	118
10	Myomaker and Myomerger Work Independently to Control Distinct Steps of Membrane Remodeling during Myoblast Fusion. <i>Developmental Cell</i> , 2018, 46, 767-780.e7.	3.1	114
11	A Mouse Model of Rhabdomyosarcoma Originating from the Adipocyte Lineage. <i>Cancer Cell</i> , 2012, 22, 536-546.	7.7	109
12	Age-Dependent Effect of Myostatin Blockade on Disease Severity in a Murine Model of Limb-Girdle Muscular Dystrophy. <i>American Journal of Pathology</i> , 2006, 168, 1975-1985.	1.9	94
13	Myoblast fusion confusion: the resolution begins. <i>Skeletal Muscle</i> , 2018, 8, 3.	1.9	91
14	Cell Fusion: Merging Membranes and Making Muscle. <i>Trends in Cell Biology</i> , 2019, 29, 964-973.	3.6	91
15	Myonuclear accretion is a determinant of exercise-induced remodeling in skeletal muscle. <i>ELife</i> , 2019, 8, .	2.8	78
16	CREST - a large and diverse superfamily of putative transmembrane hydrolases. <i>Biology Direct</i> , 2011, 6, 37.	1.9	74
17	Wnt Signaling Activation in Adipose Progenitors Promotes Insulin-Independent Muscle Glucose Uptake. <i>Cell Metabolism</i> , 2012, 15, 492-504.	7.2	65
18	Structure-function analysis of myomaker domains required for myoblast fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2116-2121.	3.3	65

#	ARTICLE	IF	CITATIONS
19	TGF $\beta$ signaling curbs cell fusion and muscle regeneration. <i>Nature Communications</i> , 2021, 12, 750.	5.8	61
20	Nuclear numbers in syncytial muscle fibers promote size but limit the development of larger myonuclear domains. <i>Nature Communications</i> , 2020, 11, 6287.	5.8	57
21	Genetic Manipulation of Dysferlin Expression in Skeletal Muscle. <i>American Journal of Pathology</i> , 2009, 175, 1817-1823.	1.9	54
22	Debio-025 is more effective than prednisone in reducing muscular pathology in mdx mice. <i>Neuromuscular Disorders</i> , 2010, 20, 753-760.	0.3	52
23	Myonuclear content regulates cell size with similar scaling properties in mice and humans. <i>Nature Communications</i> , 2020, 11, 6288.	5.8	49
24	ERK1/2 inhibition promotes robust myotube growth via CaMKII activation resulting in myoblast-to-myotube fusion. <i>Developmental Cell</i> , 2021, 56, 3349-3363.e6.	3.1	45
25	Insights into the localization and function of myomaker during myoblast fusion. <i>Journal of Biological Chemistry</i> , 2017, 292, 17272-17289.	1.6	39
26	Fibroblast fusion to the muscle fiber regulates myotendinous junction formation. <i>Nature Communications</i> , 2021, 12, 3852.	5.8	35
27	Genetic Disruption of Calcineurin Improves Skeletal Muscle Pathology and Cardiac Disease in a Mouse Model of Limb-Girdle Muscular Dystrophy. <i>Journal of Biological Chemistry</i> , 2007, 282, 10068-10078.	1.6	33
28	Na <sup>+</sup> Dysregulation Coupled with Ca <sup>2+</sup> Entry through NCX1 Promotes Muscular Dystrophy in Mice. <i>Molecular and Cellular Biology</i> , 2014, 34, 1991-2002.	1.1	32
29	Myomerger promotes fusion pore by elastic coupling between proximal membrane leaflets and hemifusion diaphragm. <i>Nature Communications</i> , 2021, 12, 495.	5.8	32
30	Myocyte-derived Myomaker expression is required for regenerative fusion but exacerbates membrane instability in dystrophic myofibers. <i>JCI Insight</i> , 2020, 5, .	2.3	24
31	Proteasome inhibition preserves longitudinal growth of denervated muscle and prevents neonatal neuromuscular contractures. <i>JCI Insight</i> , 2019, 4, .	2.3	23
32	Making Muscle or Mitochondria by Selective Splicing of PGC-1 $\beta$ . <i>Cell Metabolism</i> , 2013, 17, 3-4.	7.2	20
33	Regulation of the myoblast fusion reaction for muscle development, regeneration, and adaptations. <i>Experimental Cell Research</i> , 2022, 415, 113134.	1.2	20
34	FOXF1 is required for the oncogenic properties of PAX3-FOXO1 in rhabdomyosarcoma. <i>Oncogene</i> , 2021, 40, 2182-2199.	2.6	15
35	Skeletal muscle fibers count on nuclear numbers for growth. <i>Seminars in Cell and Developmental Biology</i> , 2021, 119, 3-10.	2.3	15
36	In <i>in vivo</i> myomaker-mediated heterologous fusion and nuclear reprogramming. <i>FASEB Journal</i> , 2017, 31, 400-411.	0.2	14

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37	Magnetic resonance imaging assessment of cardiac dysfunction in $\beta$ -sarcoglycan null mice. <i>Neuromuscular Disorders</i> , 2011, 21, 68-73.	0.3	12
38	Dilated cardiomyopathy-mediated heart failure induces a unique skeletal muscle myopathy with inflammation. <i>Skeletal Muscle</i> , 2019, 9, 4.	1.9	12
39	Comparing the epigenetic landscape in myonuclei purified with a PCM1 antibody from a fast/glycolytic and a slow/oxidative muscle. <i>PLoS Genetics</i> , 2021, 17, e1009907.	1.5	12
40	Exercise-Induced Skeletal Muscle Adaptations Alter the Activity of Adipose Progenitor Cells. <i>PLoS ONE</i> , 2016, 11, e0152129.	1.1	11
41	DOCK3 is a dosage-sensitive regulator of skeletal muscle and Duchenne muscular dystrophy-associated pathologies. <i>Human Molecular Genetics</i> , 2020, 29, 2855-2871.	1.4	10
42	All for One and One for All: Regenerating Skeletal Muscle. <i>Cold Spring Harbor Perspectives in Biology</i> , 2022, 14, a040824.	2.3	9
43	Lipid Mixing Assay for Murine Myoblast Fusion and Other Slow Cell-cell Fusion Processes. <i>Bio-protocol</i> , 2020, 10, e3544.	0.2	2
44	Myomaker and Myomerger Work Independently to Control Distinct Steps of Membrane Remodeling during Myoblast Fusion. <i>Biophysical Journal</i> , 2019, 116, 367a.	0.2	1