Rhonda Bassel-Duby

List of Publications by Citations

84 papers	7,835 citations	40 h-index	88 g-index
88 ext. papers	9,683 ext. citations	14 avg, IF	6.13 L-index

#	Paper	IF	Citations
84	Heart repair by reprogramming non-myocytes with cardiac transcription factors. *Nature*, **2012**, 485, 599-604	50.4	858
83	Postnatal genome editing partially restores dystrophin expression in a mouse model of muscular dystrophy. *Science*, **2016**, 351, 400-3	33.3	657
82	Signaling pathways in skeletal muscle remodeling. *Annual Review of Biochemistry*, **2006**, 75, 19-37	29.1	580
81	Hippo pathway effector Yap promotes cardiac regeneration. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 13839-44	11.5	575
80	Prevention of muscular dystrophy in mice by CRISPR/Cas9-mediated editing of germline DNA. *Science*, **2014**, 345, 1184-1188	33.3	493
79	A peptide encoded by a transcript annotated as long noncoding RNA enhances SERCA activity in muscle. *Science*, **2016**, 351, 271-5	33.3	439
78	Gene editing restores dystrophin expression in a canine model of Duchenne muscular dystrophy. *Science*, **2018**, 362, 86-91	33.3	283
77	Independent signals control expression of the calcineurin inhibitory proteins MCIP1 and MCIP2 in striated muscles. *Circulation Research*, **2000**, 87, E61-8	15.7	261
76	Transcription of the non-coding RNA upperhand controls Hand2 expression and heart development. *Nature*, **2016**, 539, 433-436	50.4	209
75	Control of muscle formation by the fusogenic micropeptide myomixer. *Science*, **2017**, 356, 323-327	33.3	178
74	Therapeutic approaches for cardiac regeneration and repair. *Nature Reviews Cardiology*, **2018**, 15, 585-600	14.8	161
73	CRISPR-Cpf1 correction of muscular dystrophy mutations in human cardiomyocytes and mice. *Science Advances*, **2017**, 3, e1602814	14.3	142
72	Correction of diverse muscular dystrophy mutations in human engineered heart muscle by single-site genome editing. *Science Advances*, **2018**, 4, eaap9004	14.3	138
71	Single-cut genome editing restores dystrophin expression in a new mouse model of muscular dystrophy. *Science Translational Medicine*, **2017**, 9,	17.5	129
70	CRISPR-Cas9 corrects Duchenne muscular dystrophy exon 44 deletion mutations in mice and human cells. *Science Advances*, **2019**, 5, eaav4324	14.3	120
69	Akt1/protein kinase B enhances transcriptional reprogramming of fibroblasts to functional cardiomyocytes. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 11864-9	11.5	119
68	Cardiac-specific LIM protein FHL2 modifies the hypertrophic response to beta-adrenergic stimulation. *Circulation*, **2001**, 103, 2731-8	16.7	116

67	A mouse model for adult cardiac-specific gene deletion with CRISPR/Cas9. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 338-43	11.5	115
66	Widespread control of calcium signaling by a family of SERCA-inhibiting micropeptides. *Science Signaling*, **2016**, 9, ra119	8.8	110
65	Myomaker is essential for muscle regeneration. *Genes and Development*, **2014**, 28, 1641-6	12.6	106
64	Concerted regulation of myofiber-specific gene expression and muscle performance by the transcriptional repressor Sox6. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 10196-201	11.5	106
63	Induction of diverse cardiac cell types by reprogramming fibroblasts with cardiac transcription factors. *Development (Cambridge)*, **2014**, 141, 4267-78	6.6	103
62	A Twist2-dependent progenitor cell contributes to adult skeletal muscle. *Nature Cell Biology*, **2017**, 19, 202-213	23.4	84
61	Myocyte nuclear factor, a novel winged-helix transcription factor under both developmental and neural regulation in striated myocytes. *Molecular and Cellular Biology*, **1994**, 14, 4596-605	4.8	83
60	Notch Inhibition Enhances Cardiac Reprogramming by Increasing MEF2C Transcriptional Activity. *Stem Cell Reports*, **2017**, 8, 548-560	8	78
59	CRISPR Correction of Duchenne Muscular Dystrophy. *Annual Review of Medicine*, **2019**, 70, 239-255	17.4	78
58	A 40-kilodalton protein binds specifically to an upstream sequence element essential for muscle-specific transcription of the human myoglobin promoter. *Molecular and Cellular Biology*, **1992**, 12, 5024-32	4.8	71
57	MOXI Is a Mitochondrial Micropeptide That Enhances Fatty Acid Oxidation. *Cell Reports*, **2018**, 23, 3701-3709	8.8	70
56	Enhanced CRISPR-Cas9 correction of Duchenne muscular dystrophy in mice by a self-complementary AAV delivery system. *Science Advances*, **2020**, 6, eaay6812	14.3	64
55	hnRNP U protein is required for normal pre-mRNA splicing and postnatal heart development and function. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E3020-9	11.5	63
54	Role of calcineurin in striated muscle: development, adaptation, and disease. *Biochemical and Biophysical Research Communications*, **2003**, 311, 1133-41	3.4	61
53	MED13-dependent signaling from the heart confers leanness by enhancing metabolism in adipose tissue and liver. *EMBO Molecular Medicine*, **2014**, 6, 1610-21	12	59
52	ZNF281 enhances cardiac reprogramming by modulating cardiac and inflammatory gene expression. *Genes and Development*, **2017**, 31, 1770-1783	12.6	58
51	Angiotensin II Induces Skeletal Muscle Atrophy by Activating TFEB-Mediated MuRF1 Expression. *Circulation Research*, **2015**, 117, 424-36	15.7	57
50	Structure-function analysis of myomaker domains required for myoblast fusion. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 2116-21	11.5	52

49	Functional correction of dystrophin actin binding domain mutations by genome editing. *JCI Insight*, **2017**, 2,	9.9	51
48	Mechanistic basis of neonatal heart regeneration revealed by transcriptome and histone modification profiling. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18455-18465	11.5	46
47	Cardiac Reprogramming Factors Synergistically Activate Genome-wide Cardiogenic Stage-Specific Enhancers. *Cell Stem Cell*, **2019**, 25, 69-86.e5	18	45
46	The DWORF micropeptide enhances contractility and prevents heart failure in a mouse model of dilated cardiomyopathy. *ELife*, **2018**, 7,	8.9	44
45	Blockade to pathological remodeling of infarcted heart tissue using a porcupine antagonist. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 1649-1654	11.5	41
44	Dynamic Transcriptional Responses to Injury of Regenerative and Non-regenerative Cardiomyocytes Revealed by Single-Nucleus RNA Sequencing. *Developmental Cell*, **2020**, 53, 102-116.e8	10.2	37
43	Genetic and epigenetic regulation of cardiomyocytes in development, regeneration and disease. *Development (Cambridge)*, **2018**, 145,	6.6	37
42	Collaborative interactions between MEF-2 and Sp1 in muscle-specific gene regulation. *Journal of Cellular Biochemistry*, **1998**, 70, 366-375	4.7	36
41	Requirement of the fusogenic micropeptide myomixer for muscle formation in zebrafish. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11950-11955	11.5	35
40	Fusogenic micropeptide Myomixer is essential for satellite cell fusion and muscle regeneration. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 3864-3869	11.5	33
39	Sequence elements required for transcriptional activity of the human myoglobin promoter in intact myocardium. *Circulation Research*, **1993**, 73, 360-6	15.7	32
38	A 40-kilodalton protein binds specifically to an upstream sequence element essential for muscle-specific transcription of the human myoglobin promoter. *Molecular and Cellular Biology*, **1992**, 12, 5024-5032	4.8	31
37	Myocyte nuclear factor, a novel winged-helix transcription factor under both developmental and neural regulation in striated myocytes. *Molecular and Cellular Biology*, **1994**, 14, 4596-4605	4.8	31
36	Precise correction of Duchenne muscular dystrophy exon deletion mutations by base and prime editing. *Science Advances*, **2021**, 7,	14.3	29
35	KLHL41 stabilizes skeletal muscle sarcomeres by nonproteolytic ubiquitination. *ELife*, **2017**, 6,	8.9	28
34	Myocardin-related transcription factors are required for cardiac development and function. *Developmental Biology*, **2015**, 406, 109-16	3.1	27
33	Cell-Type-Specific Gene Regulatory Networks Underlying Murine Neonatal Heart Regeneration at Single-Cell Resolution. *Cell Reports*, **2020**, 33, 108472	10.6	25
32	Correction of Three Prominent Mutations in Mouse and Human Models of Duchenne Muscular Dystrophy by Single-Cut Genome Editing. *Molecular Therapy*, **2020**, 28, 2044-2055	11.7	25

31	Correction of muscular dystrophies by CRISPR gene editing. *Journal of Clinical Investigation*, **2020**, 130, 2766-2776	15.9	25
30	A MED13-dependent skeletal muscle gene program controls systemic glucose homeostasis and hepatic metabolism. *Genes and Development*, **2016**, 30, 434-46	12.6	23
29	Degenerative and regenerative pathways underlying Duchenne muscular dystrophy revealed by single-nucleus RNA sequencing. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 29691-29701	11.5	22
28	Severe muscle wasting and denervation in mice lacking the RNA-binding protein ZFP106. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4494-503	11.5	21
27	In vivo non-invasive monitoring of dystrophin correction in a new Duchenne muscular dystrophy reporter mouse. *Nature Communications*, **2019**, 10, 4537	17.4	20
26	NURR1 activation in skeletal muscle controls systemic energy homeostasis. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 11299-11308	11.5	20
25	Myocardin-related transcription factors are required for skeletal muscle development. *Development (Cambridge)*, **2016**, 143, 2853-61	6.6	19
24	Myoediting: Toward Prevention of Muscular Dystrophy by Therapeutic Genome Editing. *Physiological Reviews*, **2018**, 98, 1205-1240	47.9	18
23	CRISPR-Mediated Activation of Endogenous Gene Expression in the Postnatal Heart. *Circulation Research*, **2020**, 126, 6-24	15.7	18
22	The histone reader PHF7 cooperates with the SWI/SNF complex at cardiac super enhancers to promote direct reprogramming. *Nature Cell Biology*, **2021**, 23, 467-475	23.4	16
21	High-Phosphate Diet Induces Exercise Intolerance and Impairs Fatty Acid Metabolism in Mice. *Circulation*, **2019**, 139, 1422-1434	16.7	16
20	Cullin-3-RING ubiquitin ligase activity is required for striated muscle function in mice. *Journal of Biological Chemistry*, **2018**, 293, 8802-8811	5.4	14
19	Twist2 amplification in rhabdomyosarcoma represses myogenesis and promotes oncogenesis by redirecting MyoD DNA binding. *Genes and Development*, **2019**, 33, 626-640	12.6	13
18	Nrf1 promotes heart regeneration and repair by regulating proteostasis and redox balance. *Nature Communications*, **2021**, 12, 5270	17.4	11
17	Inhibitor-Resistant Tissue-Type Plasminogen Activator: An Improved Thrombolytic Agent In Vitro. *Thrombosis and Haemostasis*, **1994**, 71, 124-128	7	9
16	Prednisolone rescues Duchenne muscular dystrophy phenotypes in human pluripotent stem cell-derived skeletal muscle in vitro. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
15	Identification of a multipotent Twist2-expressing cell population in the adult heart. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E8430-E8439	11.5	7
14	Direct reprogramming as a route to cardiac repair. *Seminars in Cell and Developmental Biology*, **2021** ,	7.5	7

13	Control of Muscle Metabolism by the Mediator Complex. *Cold Spring Harbor Perspectives in Medicine*, **2018**, 8,	5.4	4
12	A myocardin-adjacent lncRNA balances SRF-dependent gene transcription in the heart. *Genes and Development*, **2021**, 35, 835-840	12.6	4
11	A consolidated AAV system for single-cut CRISPR correction of a common Duchenne muscular dystrophy mutation. *Molecular Therapy - Methods and Clinical Development*, **2021**, 22, 122-132	6.4	4
10	The nuclear envelope protein Net39 is essential for muscle nuclear integrity and chromatin organization. *Nature Communications*, **2021**, 12, 690	17.4	4
9	RBPMS is an RNA-binding protein that mediates cardiomyocyte binucleation and cardiovascular development.. *Developmental Cell*, **2022**, 57, 959-973.e7	10.2	4
8	Sema3a-Nrp1 Signaling Mediates Fast-Twitch Myofiber Specificity of Tw2 Cells. *Developmental Cell*, **2019**, 51, 89-98.e4	10.2	3
7	The cardiac-enriched microprotein mitolamban regulates mitochondrial respiratory complex assembly and function in mice.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119,	11.5	2
6	Toward CRISPR Therapies for Cardiomyopathies. *Circulation*, **2021**, 144, 1525-1527	16.7	2
5	Prednisolone rescues Duchenne Muscular Dystrophy phenotypes in human pluripotent stem cells-derived skeletal muscle in vitro		2
4	Cardiac Myoediting Attenuates Cardiac Abnormalities in Human and Mouse Models of Duchenne Muscular Dystrophy. *Circulation Research*, **2021**, 129, 602-616	15.7	2
3	Long-term maintenance of dystrophin expression and resistance to injury of skeletal muscle in gene edited DMD mice.. *Molecular Therapy - Nucleic Acids*, **2022**, 28, 154-167	10.7	2
2	Regulation of cold-induced thermogenesis by the RNA binding protein FAM195A. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	1
1	CRISPR/Cas correction of muscular dystrophies. *Experimental Cell Research*, **2021**, 408, 112844	4.2	1