Paul Gregorevic

List of Publications by Citations

124 papers	6,777 citations	45 h-index	81 g-index
132 ext. papers	7,836 ext. citations	8.2 avg, IF	5.43 L-index

#	Paper	IF	Citations
124	Systemic delivery of genes to striated muscles using adeno-associated viral vectors. *Nature Medicine*, **2004**, 10, 828-34	50.5	519
123	Suppression of microRNA-29 expression by TGF-β1 promotes collagen expression and renal fibrosis. *Journal of the American Society of Nephrology: JASN*, **2012**, 23, 252-65	12.7	385
122	Therapeutic inhibition of the miR-34 family attenuates pathological cardiac remodeling and improves heart function. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 17615-20	11.5	330
121	Extracellular Vesicles Provide a Means for Tissue Crosstalk during Exercise. *Cell Metabolism*, **2018**, 27, 237-251.e4	24.6	257
120	rAAV6-microdystrophin preserves muscle function and extends lifespan in severely dystrophic mice. *Nature Medicine*, **2006**, 12, 787-9	50.5	248
119	Functional screening in human cardiac organoids reveals a metabolic mechanism for cardiomyocyte cell cycle arrest. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E8372-E8381	11.5	239
118	TGF-beta regulates miR-206 and miR-29 to control myogenic differentiation through regulation of HDAC4. *Journal of Biological Chemistry*, **2011**, 286, 13805-14	5.4	202
117	Efficient transduction of skeletal muscle using vectors based on adeno-associated virus serotype 6. *Molecular Therapy*, **2004**, 10, 671-8	11.7	195
116	Sustained AAV-mediated dystrophin expression in a canine model of Duchenne muscular dystrophy with a brief course of immunosuppression. *Molecular Therapy*, **2007**, 15, 1160-6	11.7	192
115	miR-21 promotes renal fibrosis in diabetic nephropathy by targeting PTEN and SMAD7. *Clinical Science*, **2015**, 129, 1237-49	6.5	161
114	Design of tissue-specific regulatory cassettes for high-level rAAV-mediated expression in skeletal and cardiac muscle. *Molecular Therapy*, **2007**, 15, 320-9	11.7	142
113	Follistatin-mediated skeletal muscle hypertrophy is regulated by Smad3 and mTOR independently of myostatin. *Journal of Cell Biology*, **2012**, 197, 997-1008	7.3	133
112	Elevated expression of activins promotes muscle wasting and cachexia. *FASEB Journal*, **2014**, 28, 1711-23	5.9	130
111	The bone morphogenetic protein axis is a positive regulator of skeletal muscle mass. *Journal of Cell Biology*, **2013**, 203, 345-57	7.3	128
110	Immunity to adeno-associated virus-mediated gene transfer in a random-bred canine model of Duchenne muscular dystrophy. *Human Gene Therapy*, **2007**, 18, 18-26	4.8	119
109	TGFβ and BMP signaling in skeletal muscle: potential significance for muscle-related disease. *Trends in Endocrinology and Metabolism*, **2014**, 25, 464-71	8.8	111
108	Systemic administration of micro-dystrophin restores cardiac geometry and prevents dobutamine-induced cardiac pump failure. *Molecular Therapy*, **2007**, 15, 1086-92	11.7	110

107	Improved contractile function of the mdx dystrophic mouse diaphragm muscle after insulin-like growth factor-I administration. *American Journal of Pathology*, **2002**, 161, 2263-72	5.8	97
106	Systemic microdystrophin gene delivery improves skeletal muscle structure and function in old dystrophic mdx mice. *Molecular Therapy*, **2008**, 16, 657-64	11.7	96
105	Microutrophin delivery through rAAV6 increases lifespan and improves muscle function in dystrophic dystrophin/utrophin-deficient mice. *Molecular Therapy*, **2008**, 16, 1539-45	11.7	93
104	Phosphoinositide 3-kinase p110 is a master regulator of exercise-induced cardioprotection and PI3K gene therapy rescues cardiac dysfunction. *Circulation: Heart Failure*, **2012**, 5, 523-34	7.6	89
103	ACTN3 genotype influences muscle performance through the regulation of calcineurin signaling. *Journal of Clinical Investigation*, **2013**, 123, 4255-63	15.9	84
102	Targeting of Fn14 Prevents Cancer-Induced Cachexia and Prolongs Survival. *Cell*, **2015**, 162, 1365-78	56.2	82
101	Beta 2-agonist administration reverses muscle wasting and improves muscle function in aged rats. *Journal of Physiology*, **2004**, 555, 175-88	3.9	82
100	The Hippo pathway effector YAP is a critical regulator of skeletal muscle fibre size. *Nature Communications*, **2015**, 6, 6048	17.4	81
99	Viral-mediated gene therapy for the muscular dystrophies: successes, limitations and recent advances. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2007**, 1772, 243-62	6.9	79
98	In vivo and in vitro correction of the mdx dystrophin gene nonsense mutation by short-fragment homologous replacement. *Human Gene Therapy*, **2001**, 12, 629-42	4.8	79
97	Erratum to fficient Transduction of Skeletal Muscle Using Vectors Based on Adeno-associated Virus Serotype 6*Molecular Therapy*, **2009**, 17, 1482	11.7	78
96	Gene therapy of mdx mice with large truncated dystrophins generated by recombination using rAAV6. *Molecular Therapy*, **2011**, 19, 36-45	11.7	74
95	Beta2-adrenoceptor agonist fenoterol enhances functional repair of regenerating rat skeletal muscle after injury. *Journal of Applied Physiology*, **2004**, 96, 1385-92	3.7	74
94	IGF-I treatment improves the functional properties of fast- and slow-twitch skeletal muscles from dystrophic mice. *Neuromuscular Disorders*, **2001**, 11, 260-8	2.9	73
93	Gene therapy strategies for Duchenne muscular dystrophy utilizing recombinant adeno-associated virus vectors. *Molecular Therapy*, **2006**, 13, 241-9	11.7	71
92	The calcineurin signal transduction pathway is essential for successful muscle regeneration in mdx dystrophic mice. *Acta Neuropathologica*, **2004**, 107, 299-310	14.3	68
91	Functional deficits in nNOSmu-deficient skeletal muscle: myopathy in nNOS knockout mice. *PLoS ONE*, **2008**, 3, e3387	3.7	67
90	miR-206 represses hypertrophy of myogenic cells but not muscle fibers via inhibition of HDAC4. *PLoS ONE*, **2013**, 8, e73589	3.7	63

89	Therapeutic silencing of miR-652 restores heart function and attenuates adverse remodeling in a setting of established pathological hypertrophy. *FASEB Journal*, **2014**, 28, 5097-110	0.9	61
88	Phenotypic improvement of dystrophic muscles by rAAV/microdystrophin vectors is augmented by Igf1 codelivery. *Molecular Therapy*, **2005**, 12, 441-50	11.7	60
87	Silencing of miR-34a attenuates cardiac dysfunction in a setting of moderate, but not severe, hypertrophic cardiomyopathy. *PLoS ONE*, **2014**, 9, e90337	3.7	58
86	Beta 2-agonist fenoterol has greater effects on contractile function of rat skeletal muscles than clenbuterol. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2002**, 283, R1386-94	3.2	56
85	Specific targeting of TGF- family ligands demonstrates distinct roles in the regulation of muscle mass in health and disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E5266-E5275	11.5	54
84	Hyperbaric oxygen modulates antioxidant enzyme activity in rat skeletal muscles. *European Journal of Applied Physiology*, **2001**, 86, 24-7	3.4	52
83	Dystrophin delivery to muscles of mdx mice using lentiviral vectors leads to myogenic progenitor targeting and stable gene expression. *Molecular Therapy*, **2010**, 18, 206-13	11.7	49
82	Interleukin-15 administration improves diaphragm muscle pathology and function in dystrophic mdx mice. *American Journal of Pathology*, **2005**, 166, 1131-41	5.8	49
81	Disruption of the Class IIa HDAC Corepressor Complex Increases Energy Expenditure and Lipid Oxidation. *Cell Reports*, **2016**, 16, 2802-2810	10.6	48
80	Activin signaling regulates Sertoli cell differentiation and function. *Endocrinology*, **2012**, 153, 6065-77	4.8	48
79	Smad7 gene delivery prevents muscle wasting associated with cancer cachexia in mice. *Science Translational Medicine*, **2016**, 8, 348ra98	17.5	45
78	Administration of insulin-like growth factor-I improves fatigue resistance of skeletal muscles from dystrophic mdx mice. *Muscle and Nerve*, **2004**, 30, 295-304	3.4	44
77	Differential Effects of IL6 and Activin A in the Development of Cancer-Associated Cachexia. *Cancer Research*, **2016**, 76, 5372-82	10.1	43
76	rAAV6-microdystrophin rescues aberrant Golgi complex organization in mdx skeletal muscles. *Traffic*, **2007**, 8, 1424-39	5.7	43
75	Development of novel activin-targeted therapeutics. *Molecular Therapy*, **2015**, 23, 434-44	11.7	40
74	Functional capacity of dystrophins carrying deletions in the N-terminal actin-binding domain. *Human Molecular Genetics*, **2007**, 16, 2105-13	5.6	40
73	Onset of experimental severe cardiac fibrosis is mediated by overexpression of Angiotensin-converting enzyme 2. *Hypertension*, **2009**, 53, 694-700	8.5	36
72	Leukemia inhibitory factor ameliorates muscle fiber degeneration in the mdx mouse. *Muscle and Nerve*, **2000**, 23, 1700-5	3.4	36

71	Evaluation of vascular delivery methodologies to enhance rAAV6-mediated gene transfer to canine striated musculature. *Molecular Therapy*, **2009**, 17, 1427-33	11.7	35
70	Deficiency in Apoptosis-Inducing Factor Recapitulates Chronic Kidney Disease via Aberrant Mitochondrial Homeostasis. *Diabetes*, **2016**, 65, 1085-98	0.9	34
69	Phosphoinositide 3-kinase (p110) gene delivery limits diabetes-induced cardiac NADPH oxidase and cardiomyopathy in a mouse model with established diastolic dysfunction. *Clinical Science*, **2017**, 131, 1345-1360	6.5	33
68	The TGF- Signalling Network in Muscle Development, Adaptation and Disease. *Advances in Experimental Medicine and Biology*, **2016**, 900, 97-131	3.6	33
67	Treatment of type 2 diabetes with the designer cytokine IC7Fc. *Nature*, **2019**, 574, 63-68	50.4	30
66	Regulation of Tissue Growth by the Mammalian Hippo Signaling Pathway. *Frontiers in Physiology*, **2017**, 8, 942	4.6	29
65	Integrated expression analysis of muscle hypertrophy identifies as a negative regulator of muscle mass. *JCI Insight*, **2016**, 1,	9.9	29
64	Fluorophore-labeled myosin-specific antibodies simplify muscle-fiber phenotyping. *Muscle and Nerve*, **2008**, 37, 104-6	3.4	27
63	Redox modulation of maximum force production of fast-and slow-twitch skeletal muscles of rats and mice. *Journal of Applied Physiology*, **2001**, 90, 832-8	3.7	26
62	Mechanisms involved in follistatin-induced hypertrophy and increased insulin action in skeletal muscle. *Journal of Cachexia, Sarcopenia and Muscle*, **2019**, 10, 1241-1257	10.3	24
61	Chronic beta-agonist administration affects cardiac function of adult but not old rats, independent of beta-adrenoceptor density. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 289, H344-9	5.2	24
60	Molecular characterization of latent GDF8 reveals mechanisms of activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E866-E875	11.5	23
59	The Hippo Signaling Pathway in the Regulation of Skeletal Muscle Mass and Function. *Exercise and Sport Sciences Reviews*, **2018**, 46, 92-96	6.7	23
58	Evaluation of follistatin as a therapeutic in models of skeletal muscle atrophy associated with denervation and tenotomy. *Scientific Reports*, **2015**, 5, 17535	4.9	23
57	Gene therapy for muscular dystrophy - a review of promising progress. *Expert Opinion on Biological Therapy*, **2003**, 3, 803-14	5.4	21
56	Changes in contractile activation characteristics of rat fast and slow skeletal muscle fibres during regeneration. *Journal of Physiology*, **2004**, 558, 549-60	3.9	21
55	Effects of leukemia inhibitory factor on rat skeletal muscles are modulated by clenbuterol. *Muscle and Nerve*, **2002**, 25, 194-201	3.4	20
54	Hyperbaric oxygen improves contractile function of regenerating rat skeletal muscle after myotoxic injury. *Journal of Applied Physiology*, **2000**, 89, 1477-82	3.7	20

53	Gene therapy for muscular dystrophy ? a review of promising progress. *Expert Opinion on Biological Therapy*, **2003**, 3, 803-814	5.4	20
52	Generation of a specific activin antagonist by modification of the activin A propeptide. *Endocrinology*, **2011**, 152, 3758-68	4.8	19
51	Induction of experimental autoimmune orchitis in mice: responses to elevated circulating levels of the activin-binding protein, follistatin. *Reproduction*, **2017**, 154, 293-305	3.8	16
50	Specific force of the rat extraocular muscles, levator and superior rectus, measured in situ. *Journal of Neurophysiology*, **2001**, 85, 1027-32	3.2	16
49	Using AAV vectors expressing the 2-adrenoceptor or associated G proteins to modulate skeletal muscle mass and muscle fibre size. *Scientific Reports*, **2016**, 6, 23042	4.9	16
48	Glucose-6-phosphate dehydrogenase contributes to the regulation of glucose uptake in skeletal muscle. *Molecular Metabolism*, **2016**, 5, 1083-1091	8.8	15
47	Viral vectors for gene transfer to striated muscle. *Current Opinion in Molecular Therapeutics*, **2004**, 6, 491-8		15
46	Abnormal mitochondrial L-arginine transport contributes to the pathogenesis of heart failure and rexoygenation injury. *PLoS ONE*, **2014**, 9, e104643	3.7	14
45	Gene therapy targeting cardiac phosphoinositide 3-kinase (p110) attenuates cardiac remodeling in type 2 diabetes. *American Journal of Physiology - Heart and Circulatory Physiology*, **2020**, 318, H840-H852	5.2	13
44	Skeletal muscle-specific overexpression of heat shock protein 72 improves skeletal muscle insulin-stimulated glucose uptake but does not alter whole body metabolism. *Diabetes, Obesity and Metabolism*, **2018**, 20, 1928-1936	6.7	13
43	Modulating myosin restores muscle function in a mouse model of nemaline myopathy. *Annals of Neurology*, **2016**, 79, 717-725	9.4	13
42	Integrated Glycoproteomics Identifies a Role of N-Glycosylation and Galectin-1 on Myogenesis and Muscle Development. *Molecular and Cellular Proteomics*, **2020**, 20, 100030	7.6	13
41	Generation of MicroRNA-34 Sponges and Tough Decoys for the Heart: Developments and Challenges. *Frontiers in Pharmacology*, **2018**, 9, 1090	5.6	13
40	Forced expression of muscle specific kinase slows postsynaptic acetylcholine receptor loss in a mouse model of MuSK myasthenia gravis. *Physiological Reports*, **2015**, 3, e12658	2.6	12
39	Endurance training adaptations modulate the redox-force relationship of rat isolated slow-twitch skeletal muscles. *Clinical and Experimental Pharmacology and Physiology*, **2003**, 30, 77-81	3	12
38	Hyperbaric oxygen increases the contractile function of regenerating rat slow muscles. *Medicine and Science in Sports and Exercise*, **2002**, 34, 630-6	1.2	11
37	Functional properties of regenerating skeletal muscle following LIF administration. *Muscle and Nerve*, **2000**, 23, 1586-8	3.4	11
36	Fine-tuning the cardiac O-GlcNAcylation regulatory enzymes governs the functional and structural phenotype of the diabetic heart. *Cardiovascular Research*, **2021**,	9.9	11

35	Perturbed BMP signaling and denervation promote muscle wasting in cancer cachexia. *Science Translational Medicine*, **2021**, 13,	17.5	11
34	Gene delivery of medium chain acyl-coenzyme A dehydrogenase induces physiological cardiac hypertrophy and protects against pathological remodelling. *Clinical Science*, **2018**, 132, 381-397	6.5	10
33	Phosphorylation within the cysteine-rich region of dystrophin enhances its association with β-dystroglycan and identifies a potential novel therapeutic target for skeletal muscle wasting. *Human Molecular Genetics*, **2014**, 23, 6697-711	5.6	10
32	Hyperbaric oxygen increases the contractile function of regenerating rat slow muscles. *Medicine and Science in Sports and Exercise*, **2002**, 34, 630-636	1.2	10
31	Skeletal muscle-specific overexpression of IGFBP-2 promotes a slower muscle phenotype in healthy but not dystrophic mdx mice and does not affect the dystrophic pathology. *Growth Hormone and IGF Research*, **2016**, 30-31, 1-10	2	10
30	The Effect of ACTN3 Gene Doping on Skeletal Muscle Performance. *American Journal of Human Genetics*, **2018**, 102, 845-857	11	9
29	Activin A-Induced Cachectic Wasting Is Attenuated by Systemic Delivery of Its Cognate Propeptide in Male Mice. *Endocrinology*, **2019**, 160, 2417-2426	4.8	8
28	Functional β-adrenoceptors are important for early muscle regeneration in mice through effects on myoblast proliferation and differentiation. *PLoS ONE*, **2014**, 9, e101379	3.7	8
27	Transduction of skeletal muscles with common reporter genes can promote muscle fiber degeneration and inflammation. *PLoS ONE*, **2012**, 7, e51627	3.7	8
26	Preclinical studies for gene therapy of Duchenne muscular dystrophy. *Journal of Child Neurology*, **2010**, 25, 1149-57	2.5	8
25	The atypical 'b' splice variant of phospholipase Cβ1 promotes cardiac contractile dysfunction. *Journal of Molecular and Cellular Cardiology*, **2015**, 84, 95-103	5.8	7
24	Muscle specific kinase protects dystrophic mdx mouse muscles from eccentric contraction-induced loss of force-producing capacity. *Journal of Physiology*, **2019**, 597, 4831-4850	3.9	7
23	Sex-Specific Control of Human Heart Maturation by the Progesterone Receptor. *Circulation*, **2021**, 143, 1614-1628	16.7	6
22	The E3 ligase MARCH5 is a PPARβ target gene that regulates mitochondria and metabolism in adipocytes. *American Journal of Physiology - Endocrinology and Metabolism*, **2019**, 316, E293-E304	6	5
21	Dynamic Changes to the Skeletal Muscle Proteome and Ubiquitinome Induced by the E3 Ligase, ASB2β *Molecular and Cellular Proteomics*, **2021**, 20, 100050	7.6	4
20	Intravascular Follistatin gene delivery improves glycemic control in a mouse model of type 2 diabetes. *FASEB Journal*, **2020**, 34, 5697-5714	0.9	3
19	Bone Morphogenetic Protein 7 Gene Delivery Improves Cardiac Structure and Function in a Murine Model of Diabetic Cardiomyopathy. *Frontiers in Pharmacology*, **2021**, 12, 719290	5.6	3
18	TMEPAI/PMEPA1 Is a Positive Regulator of Skeletal Muscle Mass. *Frontiers in Physiology*, **2020**, 11, 560226	4.6	3

17	Phosphorylation of ERK and dystrophin S3059 protects against inflammation-associated C2C12 myotube atrophy. *American Journal of Physiology - Cell Physiology*, **2021**, 320, C956-C965	5.4	3
16	Yap regulates skeletal muscle fatty acid oxidation and adiposity in metabolic disease. *Nature Communications*, **2021**, 12, 2887	17.4	3
15	Loss of the long non-coding RNA OIP5-AS1 exacerbates heart failure in a sex-specific manner. *IScience*, **2021**, 24, 102537	6.1	3
14	The regulation of polyamine pathway proteins in models of skeletal muscle hypertrophy and atrophy: a potential role for mTORC1. *American Journal of Physiology - Cell Physiology*, **2021**, 320, C987-C999	5.4	3
13	Site-Specific Glycation and Chemo-enzymatic Antibody Sortagging for the Retargeting of rAAV6 to Inflamed Endothelium. *Molecular Therapy - Methods and Clinical Development*, **2019**, 14, 261-269	6.4	2
12	Lentiviral transduction of rat Sertoli cells as a means to modify gene expression. *Spermatogenesis*, **2012**, 2, 279-284		2
11	Functional enhancement of skeletal muscle by gene transfer. *Physical Medicine and Rehabilitation Clinics of North America*, **2005**, 16, 875-87, vii-viii	2.3	2
10	Molecular characterization of latent GDF8 reveals mechanisms of activation		2
9	genotype influences skeletal muscle mass regulation and response to dexamethasone. *Science Advances*, **2021**, 7,	14.3	2
8	Mechanisms involved in follistatin-induced hypertrophy and increased insulin action in skeletal muscle		1
7	The bone morphogenetic protein axis is a positive regulator of skeletal muscle mass. *Journal of Experimental Medicine*, **2013**, 210, 21012OIA54	16.6	1
6	Bone Geometry Is Altered by Follistatin-Induced Muscle Growth in Young Adult Male Mice. *JBMR Plus*, **2021**, 5, e10477	3.9	1
5	Tissue-specific expression of Cas9 has no impact on whole-body metabolism in four transgenic mouse lines. *Molecular Metabolism*, **2021**, 53, 101292	8.8	1
4	Expanding the MuRF1 Universe with Quantitative Ubiquitylomics.. *Function*, **2021**, 2, zqab058	6.1	
3	Immunity to Adeno-Associated Virus-Mediated Gene Transfer in a Random-Bred Canine Model of Duchenne Muscular Dystrophy. *Human Gene Therapy*, **2006**, 061218064941001	4.8	
2	Combinatorial Gene Therapy Strategies for Treating Muscular Dystrophies **2010**, 117-139		
1	Therapeutic Gene Transfer to Skeletal Muscle123-128		