Stefano Schiaffino

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.

89 papers	18,582 citations	53 h-index	93 g-index
93 ext. papers	20,705 ext. citations	7.7 avg, IF	6.6 L-index

#	Paper	IF	Citations
89	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	16.2	2783
88	Foxo transcription factors induce the atrophy-related ubiquitin ligase atrogin-1 and cause skeletal muscle atrophy. *Cell*, **2004**, 117, 399-412	56.2	2133
87	Fiber types in mammalian skeletal muscles. *Physiological Reviews*, **2011**, 91, 1447-531	47.9	1490
86	FoxO3 controls autophagy in skeletal muscle in vivo. *Cell Metabolism*, **2007**, 6, 458-71	24.6	1393
85	Autophagy is required to maintain muscle mass. *Cell Metabolism*, **2009**, 10, 507-15	24.6	1332
84	FoxO3 coordinately activates protein degradation by the autophagic/lysosomal and proteasomal pathways in atrophying muscle cells. *Cell Metabolism*, **2007**, 6, 472-83	24.6	1141
83	Mechanisms regulating skeletal muscle growth and atrophy. *FEBS Journal*, **2013**, 280, 4294-314	5.7	790
82	Three myosin heavy chain isoforms in type 2 skeletal muscle fibres. *Journal of Muscle Research and Cell Motility*, **1989**, 10, 197-205	3.5	733
81	Regulation of skeletal muscle growth by the IGF1-Akt/PKB pathway: insights from genetic models. *Skeletal Muscle*, **2011**, 1, 4	5.1	447
80	Muscle type and fiber type specificity in muscle wasting. *International Journal of Biochemistry and Cell Biology*, **2013**, 45, 2191-9	5.6	303
79	A protein kinase B-dependent and rapamycin-sensitive pathway controls skeletal muscle growth but not fiber type specification. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 9213-8	11.5	303
78	Regeneration of mammalian skeletal muscle. Basic mechanisms and clinical implications. *Current Pharmaceutical Design*, **2010**, 16, 906-14	3.3	251
77	Muscle insulin sensitivity and glucose metabolism are controlled by the intrinsic muscle clock. *Molecular Metabolism*, **2014**, 3, 29-41	8.8	242
76	Acute quadriplegia and loss of muscle myosin in patients treated with nondepolarizing neuromuscular blocking agents and corticosteroids: mechanisms at the cellular and molecular levels. *Critical Care Medicine*, **2000**, 28, 34-45	1.4	227
75	Signalling pathways regulating muscle mass in ageing skeletal muscle: the role of the IGF1-Akt-mTOR-FoxO pathway. *Biogerontology*, **2013**, 14, 303-23	4.5	219
74	Downstream of Akt: FoxO3 and mTOR in the regulation of autophagy in skeletal muscle. *Autophagy* , **2008**, 4, 524-6	10.2	211
73	Developmental myosins: expression patterns and functional significance. *Skeletal Muscle*, **2015**, 5, 22	5.1	209

72	Embryonic and neonatal myosin heavy chain in denervated and paralyzed rat skeletal muscle. *Developmental Biology*, **1988**, 127, 1-11	3.1	186
71	Ras is involved in nerve-activity-dependent regulation of muscle genes. *Nature Cell Biology*, **2000**, 2, 142-7	23.4	179
70	Activity-dependent signaling pathways controlling muscle diversity and plasticity. *Physiology*, **2007**, 22, 269-78	9.8	178
69	Comparative sequence analysis of the complete human sarcomeric myosin heavy chain family: implications for functional diversity. *Journal of Molecular Biology*, **1999**, 290, 61-75	6.5	177
68	Inducible activation of Akt increases skeletal muscle mass and force without satellite cell activation. *FASEB Journal*, **2009**, 23, 3896-905	0.9	176
67	Gene transfer in regenerating muscle. *Human Gene Therapy*, **1994**, 5, 11-8	4.8	168
66	NFAT is a nerve activity sensor in skeletal muscle and controls activity-dependent myosin switching. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 10590-5	11.5	165
65	Translational suppression of atrophic regulators by microRNA-23a integrates resistance to skeletal muscle atrophy. *Journal of Biological Chemistry*, **2011**, 286, 38456-38465	5.4	145
64	Calcineurin signaling and neural control of skeletal muscle fiber type and size. *Trends in Pharmacological Sciences*, **2002**, 23, 569-75	13.2	137
63	Fibre types in skeletal muscle: a personal account. *Acta Physiologica*, **2010**, 199, 451-63	5.6	136
62	Single Muscle Fiber Proteomics Reveals Fiber-Type-Specific Features of Human Muscle Aging. *Cell Reports*, **2017**, 19, 2396-2409	10.6	133
61	Single muscle fiber proteomics reveals unexpected mitochondrial specialization. *EMBO Reports*, **2015**, 16, 387-95	6.5	124
60	Mechanisms modulating skeletal muscle phenotype. *Comprehensive Physiology*, **2013**, 3, 1645-87	7.7	122
59	Adaptation of mouse skeletal muscle to long-term microgravity in the MDS mission. *PLoS ONE*, **2012**, 7, e33232	3.7	116
58	NFAT isoforms control activity-dependent muscle fiber type specification. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 13335-40	11.5	112
57	Heart conduction system: a neural crest derivative?. *Brain Research*, **1988**, 457, 360-6	3.7	102
56	Computational reconstruction of the human skeletal muscle secretome. *Proteins: Structure, Function and Bioinformatics*, **2006**, 62, 776-92	4.2	96
55	Two novel/ancient myosins in mammalian skeletal muscles: MYH14/7b and MYH15 are expressed in extraocular muscles and muscle spindles. *Journal of Physiology*, **2010**, 588, 353-64	3.9	92

54	Isoform transitions of the myosin binding protein C family in developing human and mouse muscles: lack of isoform transcomplementation in cardiac muscle. *Circulation Research*, **1998**, 82, 124-9	15.7	89
53	Studies on the effect of denervation in developing muscle. II. The lysosomal system. *Journal of Ultrastructure Research*, **1972**, 39, 1-14		89
52	Electrophoretic separation and immunological identification of type 2X myosin heavy chain in rat skeletal muscle. *Biochimica Et Biophysica Acta - General Subjects*, **1990**, 1035, 109-12	4	81
51	Regulatory T cells and skeletal muscle regeneration. *FEBS Journal*, **2017**, 284, 517-524	5.7	76
50	NFATc1 nucleocytoplasmic shuttling is controlled by nerve activity in skeletal muscle. *Journal of Cell Science*, **2006**, 119, 1604-11	5.3	76
49	Fetal myosin immunoreactivity in human dystrophic muscle. *Muscle and Nerve*, **1986**, 9, 51-8	3.4	74
48	Transcriptional programming of lipid and amino acid metabolism by the skeletal muscle circadian clock. *PLoS Biology*, **2018**, 16, e2005886	9.7	70
47	Regional differences in troponin I isoform switching during rat heart development. *Developmental Biology*, **1993**, 156, 253-64	3.1	67
46	Combinatorial cis-acting elements control tissue-specific activation of the cardiac troponin I gene in vitro and in vivo. *Journal of Biological Chemistry*, **1998**, 273, 25371-80	5.4	65
45	Binding of cytosolic proteins to myofibrils in ischemic rat hearts. *Circulation Research*, **1996**, 78, 821-8	15.7	64
44	A combined histochemical and immunohistochemical study on the dynamics of fast-to-slow fiber transformation in chronically stimulated rabbit muscle. *Cell and Tissue Research*, **1988**, 254, 59-68	4.2	63
43	Akt activation prevents the force drop induced by eccentric contractions in dystrophin-deficient skeletal muscle. *Human Molecular Genetics*, **2008**, 17, 3686-96	5.6	62
42	Muscle fiber type diversity revealed by anti-myosin heavy chain antibodies. *FEBS Journal*, **2018**, 285, 3688-3694	5.7	59
41	Tubular aggregates in skeletal muscle: just a special type of protein aggregates?. *Neuromuscular Disorders*, **2012**, 22, 199-207	2.9	57
40	MRF4 negatively regulates adult skeletal muscle growth by repressing MEF2 activity. *Nature Communications*, **2016**, 7, 12397	17.4	57
39	Early myosin switching induced by nerve activity in regenerating slow skeletal muscle. *Cell Structure and Function*, **1997**, 22, 147-53	2.2	56
38	The role of autophagy in neonatal tissues: just a response to amino acid starvation?. *Autophagy*, **2008**, 4, 727-30	10.2	55
37	Fast-white and fast-red isomyosins in guinea pig muscles. *Biochemical and Biophysical Research Communications*, **1980**, 96, 1662-70	3.4	54

36	Cardiac interstitial cells express GATA4 and control dedifferentiation and cell cycle re-entry of adult cardiomyocytes. *Journal of Molecular and Cellular Cardiology*, **2009**, 46, 653-62	5.8	44
35	Myosin heavy-chain isoforms in human smooth muscle. *FEBS Journal*, **1989**, 179, 79-85		44
34	The calcineurin-NFAT pathway controls activity-dependent circadian gene expression in slow skeletal muscle. *Molecular Metabolism*, **2015**, 4, 823-33	8.8	43
33	Regulatory elements governing transcription in specialized myofiber subtypes. *Journal of Biological Chemistry*, **2001**, 276, 17361-6	5.4	41
32	Multiple signalling pathways redundantly control glucose transporter GLUT4 gene transcription in skeletal muscle. *Journal of Physiology*, **2009**, 587, 4319-27	3.9	40
31	The functional significance of the skeletal muscle clock: lessons from knockout models. *Skeletal Muscle*, **2016**, 6, 33	5.1	38
30	Expression and activity of cyclooxygenase isoforms in skeletal muscles and myocardium of humans and rodents. *Journal of Applied Physiology*, **2007**, 103, 1412-8	3.7	35
29	Eccentric contractions lead to myofibrillar dysfunction in muscular dystrophy. *Journal of Applied Physiology*, **2010**, 108, 105-11	3.7	32
28	Myosin heavy chain gene expression changes in the diaphragm of patients with chronic lung hyperinflation. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **1998**, 274, L527-34	5.8	32
27	Early decrease of IIx myosin heavy chain transcripts in Duchenne muscular dystrophy. *Biochemical and Biophysical Research Communications*, **1999**, 255, 466-9	3.4	31
26	Developmental expression of the SH3BGR gene, mapping to the Down syndrome heart critical region. *Mechanisms of Development*, **2000**, 90, 313-6	1.7	24
25	No evidence for inositol 1,4,5-trisphosphate-dependent Ca2+ release in isolated fibers of adult mouse skeletal muscle. *Journal of General Physiology*, **2012**, 140, 235-41	3.4	23
24	Molecular diversity of myofibrillar proteins: isoforms analysis at the protein and mRNA level. *Methods in Cell Biology*, **1997**, 52, 349-69	1.8	21
23	Developing a toolkit for the assessment and monitoring of musculoskeletal ageing. *Age and Ageing*, **2018**, 47, iv1-iv19	3	20
22	Fibre type-specific and nerve-dependent regulation of myosin light chain 1 slow promoter in regenerating muscle. *Journal of Muscle Research and Cell Motility*, **1997**, 18, 369-73	3.5	19
21	Hybrid cardiomyocytes derived by cell fusion in heterotopic cardiac xenografts. *FASEB Journal*, **2006**, 20, 2534-6	0.9	14
20	Molecular Mechanisms of Skeletal Muscle Hypertrophy. *Journal of Neuromuscular Diseases*, **2021**, 8, 169-183	5	14
19	Innervation of Regenerating Muscle **2008**, 303-334		12

18	Fiber type diversity in skeletal muscle explored by mass spectrometry-based single fiber proteomics. *Histology and Histopathology*, **2020**, 35, 239-246	1.4	11
17	Protein profile of fiber types in human skeletal muscle: a single-fiber proteomics study. *Skeletal Muscle*, **2021**, 11, 24	5.1	10
16	GATA elements control repression of cardiac troponin I promoter activity in skeletal muscle cells. *BMC Molecular Biology*, **2007**, 8, 78	4.5	9
15	Muscle hypertrophy and muscle strength: dependent or independent variables? A provocative review. *European Journal of Translational Myology*, **2020**, 30, 9311	2.1	9
14	Heart morphogenesis is not affected by overexpression of the Sh3bgr gene mapping to the Down syndrome heart critical region. *Human Genetics*, **2004**, 114, 517-9	6.3	6
13	Losing pieces without disintegrating: Contractile protein loss during muscle atrophy. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 1753-1755	11.5	5
12	Changes in skeletal muscle fiber types induced by chronic kidney disease. *Kidney International*, **2015**, 88, 412	9.9	3
11	Skeletal Muscle Fiber Types **2012**, 855-867		2
10	Modification of the dystrophic phenotype after transient neonatal denervation: role of MHC isoforms. *Journal of Neurobiology*, **1992**, 23, 751-65		2
9	Letter to the editor: Comments on Stuart et al. (2016): "Myosin content of individual human muscle fibers isolated by laser capture microdissection". *American Journal of Physiology - Cell Physiology*, **2016**, 311, C1048-C1049	5.4	2
8	Signaling Pathways Controlling Muscle Fiber Size and Type In Response To Nerve Activity **2006**, 91-119		2
7	Knockout of human muscle genes revealed by large scale whole-exome studies. *Molecular Genetics and Metabolism*, **2018**, 123, 411-415	3.7	1
6	The proteomic profile of the human myotendinous junction.. *IScience*, **2022**, 25, 103836	6.1	0
5	Characterization of a Human Perinatal Myosin Heavy-Chain Transcript. *FEBS Journal*, **2008**, 230, 1001-1006		
4	Chapter 4 Fiber type specification in vertebrate skeletal muscle. *Advances in Developmental Biology and Biochemistry*, **2002**, 11, 75-95		
3	The Role of Omics Approaches in Muscle Research **2019**, 1-6		
2	Contractile Protein Isoforms in Sarcomeric Muscles: Distribution, Function and Control of Gene Expression **1994**, 271-299		
1	A Cardiac-Specific Troponin I Promoter. Distinctive Patterns of Regulation in Cultured Fetal Cardiomyocytes, Adult Heart and Transgenic Mice. *Developments in Cardiovascular Medicine*, **1999**, 17-25		