Kevin P Campbell

List of Publications by Citations

381 papers	45,559 citations	118 h-index	204 g-index
400 ext. papers	48,552 ext. citations	11.1 avg, IF	7.11 L-index

#	Paper	IF	Citations
381	Primary structure of dystrophin-associated glycoproteins linking dystrophin to the extracellular matrix. *Nature*, **1992**, 355, 696-702	50.4	1194
380	A role for the dystrophin-glycoprotein complex as a transmembrane linker between laminin and actin. *Journal of Cell Biology*, **1993**, 122, 809-23	7.3	1137
379	Membrane organization of the dystrophin-glycoprotein complex. *Cell*, **1991**, 66, 1121-31	56.2	1130
378	Deficiency of a glycoprotein component of the dystrophin complex in dystrophic muscle. *Nature*, **1990**, 345, 315-9	50.4	837
377	Nomenclature of voltage-gated calcium channels. *Neuron*, **2000**, 25, 533-5	13.9	799
376	Defective membrane repair in dysferlin-deficient muscular dystrophy. *Nature*, **2003**, 423, 168-72	50.4	748
375	Three muscular dystrophies: loss of cytoskeleton-extracellular matrix linkage. *Cell*, **1995**, 80, 675-9	56.2	737
374	Post-translational disruption of dystroglycan-ligand interactions in congenital muscular dystrophies. *Nature*, **2002**, 418, 417-22	50.4	667
373	Association of dystrophin and an integral membrane glycoprotein. *Nature*, **1989**, 338, 259-62	50.4	625
372	Calcium channel beta-subunit binds to a conserved motif in the I-II cytoplasmic linker of the alpha 1-subunit. *Nature*, **1994**, 368, 67-70	50.4	582
371	Cell therapy of alpha-sarcoglycan null dystrophic mice through intra-arterial delivery of mesoangioblasts. *Science*, **2003**, 301, 487-92	33.3	542
370	Sequence and expression of mRNAs encoding the alpha 1 and alpha 2 subunits of a DHP-sensitive calcium channel. *Science*, **1988**, 241, 1661-4	33.3	529
369	Identification of alpha-dystroglycan as a receptor for lymphocytic choriomeningitis virus and Lassa fever virus. *Science*, **1998**, 282, 2079-81	33.3	515
368	The mouse stargazer gene encodes a neuronal Ca2+-channel gamma subunit. *Nature Genetics*, **1998** , 19, 340-7	36.3	506
367	Deletion of brain dystroglycan recapitulates aspects of congenital muscular dystrophy. *Nature*, **2002**, 418, 422-5	50.4	473
366	Dystroglycan is essential for early embryonic development: disruption of Reichert's membrane in Dag1-null mice. *Human Molecular Genetics*, **1997**, 6, 831-41	5.6	455
365	Association of dystrophin-related protein with dystrophin-associated proteins in mdx mouse muscle. *Nature*, **1992**, 360, 588-91	50.4	444

364	Dystroglycan: from biosynthesis to pathogenesis of human disease. *Journal of Cell Science*, **2006**, 119, 199-207	5.3	443
363	Purified ryanodine receptor from rabbit skeletal muscle is the calcium-release channel of sarcoplasmic reticulum. *Journal of General Physiology*, **1988**, 92, 1-26	3.4	443
362	Enteroviral protease 2A cleaves dystrophin: evidence of cytoskeletal disruption in an acquired cardiomyopathy. *Nature Medicine*, **1999**, 5, 320-6	50.5	437
361	Beta-sarcoglycan: characterization and role in limb-girdle muscular dystrophy linked to 4q12. *Nature Genetics*, **1995**, 11, 257-65	36.3	433
360	Molecular basis of muscular dystrophies. *Muscle and Nerve*, **2000**, 23, 1456-71	3.4	418
359	Missense mutations in the adhalin gene linked to autosomal recessive muscular dystrophy. *Cell*, **1994**, 78, 625-33	56.2	415
358	Animal models for muscular dystrophy show different patterns of sarcolemmal disruption. *Journal of Cell Biology*, **1997**, 139, 375-85	7.3	411
357	Auxiliary subunits: essential components of the voltage-gated calcium channel complex. *Current Opinion in Neurobiology*, **2003**, 13, 298-307	7.6	411
356	Direct binding of G-protein betagamma complex to voltage-dependent calcium channels. *Nature*, **1997**, 385, 446-50	50.4	387
355	Dystrophin-associated proteins are greatly reduced in skeletal muscle from mdx mice. *Journal of Cell Biology*, **1991**, 115, 1685-94	7.3	371
354	Muscular dystrophies involving the dystrophin-glycoprotein complex: an overview of current mouse models. *Current Opinion in Genetics and Development*, **2002**, 12, 349-61	4.9	361
353	A stoichiometric complex of neurexins and dystroglycan in brain. *Journal of Cell Biology*, **2001**, 154, 435-45	7.3	353
352	A role for dystrophin-associated glycoproteins and utrophin in agrin-induced AChR clustering. *Cell*, **1994**, 77, 663-74	56.2	348
351	The brain ryanodine receptor: a caffeine-sensitive calcium release channel. *Neuron*, **1991**, 7, 17-25	13.9	340
350	A role for dystroglycan in basement membrane assembly. *Cell*, **1998**, 95, 859-70	56.2	335
349	Dystrophin-related protein is localized to neuromuscular junctions of adult skeletal muscle. *Neuron*, **1991**, 7, 499-508	13.9	334
348	Dystrophin-glycoprotein complex: post-translational processing and dystroglycan function. *Journal of Biological Chemistry*, **2003**, 278, 15457-60	5.4	330
347	Disruption of the sarcoglycan-sarcospan complex in vascular smooth muscle: a novel mechanism for cardiomyopathy and muscular dystrophy. *Cell*, **1999**, 98, 465-74	56.2	321

346	The naming of voltage-gated calcium channels. *Neuron*, **1994**, 13, 505-6	13.9	314
345	Progressive muscular dystrophy in alpha-sarcoglycan-deficient mice. *Journal of Cell Biology*, **1998**, 142, 1461-71	7.3	303
344	Muscular dystrophies and the dystrophin-glycoprotein complex. *Current Opinion in Neurology*, **1997**, 10, 168-75	7.1	290
343	Abnormal coronary function in mice deficient in alpha1H T-type Ca2+ channels. *Science*, **2003**, 302, 1416-8	33.3	286
342	Subcellular fractionation of dystrophin to the triads of skeletal muscle. *Nature*, **1987**, 330, 754-8	50.4	286
341	Induction of calcium currents by the expression of the alpha 1-subunit of the dihydropyridine receptor from skeletal muscle. *Nature*, **1989**, 340, 233-6	50.4	282
340	The biochemistry and molecular biology of the dihydropyridine-sensitive calcium channel. *Trends in Neurosciences*, **1988**, 11, 425-30	13.3	281
339	O-mannosyl phosphorylation of alpha-dystroglycan is required for laminin binding. *Science*, **2010**, 327, 88-92	33.3	279
338	Dystrophin-glycoprotein complex: its role in the molecular pathogenesis of muscular dystrophies. *Muscle and Nerve*, **1994**, 17, 2-15	3.4	277
337	PGC-1alpha regulates the neuromuscular junction program and ameliorates Duchenne muscular dystrophy. *Genes and Development*, **2007**, 21, 770-83	12.6	262
336	Overexpression of dystrophin in transgenic mdx mice eliminates dystrophic symptoms without toxicity. *Nature*, **1993**, 364, 725-9	50.4	261
335	Dual function of the voltage-dependent Ca2+ channel alpha 2 delta subunit in current stimulation and subunit interaction. *Neuron*, **1996**, 16, 431-40	13.9	258
334	Dystrophin-glycoprotein complex is highly enriched in isolated skeletal muscle sarcolemma. *Journal of Cell Biology*, **1991**, 112, 135-48	7.3	258
333	Dystroglycan inside and out. *Current Opinion in Cell Biology*, **1999**, 11, 602-7	9	251
332	Identification and characterization of the dystrophin anchoring site on beta-dystroglycan. *Journal of Biological Chemistry*, **1995**, 270, 27305-10	5.4	250
331	Immunosuppression and resultant viral persistence by specific viral targeting of dendritic cells. *Journal of Experimental Medicine*, **2000**, 192, 1249-60	16.6	249
330	Primary structure of the gamma subunit of the DHP-sensitive calcium channel from skeletal muscle. *Science*, **1990**, 248, 490-2	33.3	242
329	Maturation and maintenance of the neuromuscular synapse: genetic evidence for roles of the dystrophin--glycoprotein complex. *Neuron*, **2000**, 25, 279-93	13.9	240

328	Ca2+ channel regulation by a conserved beta subunit domain. *Neuron*, **1994**, 13, 495-503	13.9	237
327	Dysferlin and the plasma membrane repair in muscular dystrophy. *Trends in Cell Biology*, **2004**, 14, 206-13	18.3	236
326	Deficiency of the 50K dystrophin-associated glycoprotein in severe childhood autosomal recessive muscular dystrophy. *Nature*, **1992**, 359, 320-2	50.4	234
325	Sarcolemma-localized nNOS is required to maintain activity after mild exercise. *Nature*, **2008**, 456, 511-5	50.4	232
324	Structural analysis of the voltage-dependent calcium channel beta subunit functional core and its complex with the alpha 1 interaction domain. *Neuron*, **2004**, 42, 387-99	13.9	231
323	Dystroglycan: an extracellular matrix receptor linked to the cytoskeleton. *Current Opinion in Cell Biology*, **1996**, 8, 625-31	9	224
322	Disruption of DAG1 in differentiated skeletal muscle reveals a role for dystroglycan in muscle regeneration. *Cell*, **2002**, 110, 639-48	56.2	218
321	Molecular recognition by LARGE is essential for expression of functional dystroglycan. *Cell*, **2004**, 117, 953-64	56.2	217
320	Subunit identification and reconstitution of the N-type Ca2+ channel complex purified from brain. *Science*, **1993**, 261, 486-9	33.3	217
319	Dystroglycan function requires xylosyl- and glucuronyltransferase activities of LARGE. *Science*, **2012**, 335, 93-6	33.3	215
318	LARGE can functionally bypass alpha-dystroglycan glycosylation defects in distinct congenital muscular dystrophies. *Nature Medicine*, **2004**, 10, 696-703	50.5	215
317	A dystroglycan mutation associated with limb-girdle muscular dystrophy. *New England Journal of Medicine*, **2011**, 364, 939-46	59.2	214
316	Human dystroglycan: skeletal muscle cDNA, genomic structure, origin of tissue specific isoforms and chromosomal localization. *Human Molecular Genetics*, **1993**, 2, 1651-7	5.6	213
315	Ryanodine receptor of skeletal muscle is a gap junction-type channel. *Science*, **1988**, 242, 99-102	33.3	213
314	The unfolded protein response mediates adaptation to exercise in skeletal muscle through a PGC-1ATF6complex. *Cell Metabolism*, **2011**, 13, 160-9	24.6	211
313	Unique role of dystroglycan in peripheral nerve myelination, nodal structure, and sodium channel stabilization. *Neuron*, **2003**, 38, 747-58	13.9	208
312	SH3 domain-mediated interaction of dystroglycan and Grb2. *Journal of Biological Chemistry*, **1995**, 270, 11711-4	5.4	204
311	A neuronal ryanodine receptor mediates light-induced phase delays of the circadian clock. *Nature*, **1998**, 394, 381-4	50.4	199

310	Rapsyn may function as a link between the acetylcholine receptor and the agrin-binding dystrophin-associated glycoprotein complex. *Neuron*, **1995**, 15, 115-26	13.9	191
309	Assembly of the dystrophin-associated protein complex does not require the dystrophin COOH-terminal domain. *Journal of Cell Biology*, **2000**, 150, 1399-410	7.3	188
308	RIM1 confers sustained activity and neurotransmitter vesicle anchoring to presynaptic Ca2+ channels. *Nature Neuroscience*, **2007**, 10, 691-701	25.5	186
307	Dysferlin and muscle membrane repair. *Current Opinion in Cell Biology*, **2007**, 19, 409-16	9	185
306	ISPD loss-of-function mutations disrupt dystroglycan O-mannosylation and cause Walker-Warburg syndrome. *Nature Genetics*, **2012**, 44, 575-80	36.3	183
305	Association of triadin with the ryanodine receptor and calsequestrin in the lumen of the sarcoplasmic reticulum. *Journal of Biological Chemistry*, **1995**, 270, 9027-30	5.4	179
304	Attenuated pain responses in mice lacking Ca(V)3.2 T-type channels. *Genes, Brain and Behavior*, **2007**, 6, 425-31	3.6	177
303	Non-muscle alpha-dystroglycan is involved in epithelial development. *Journal of Cell Biology*, **1995**, 130, 79-91	7.3	176
302	C-terminal titin deletions cause a novel early-onset myopathy with fatal cardiomyopathy. *Annals of Neurology*, **2007**, 61, 340-51	9.4	170
301	Role of alpha-dystroglycan as a Schwann cell receptor for Mycobacterium leprae. *Science*, **1998**, 282, 2076-9	33.3	170
300	Primary adhalinopathy: a common cause of autosomal recessive muscular dystrophy of variable severity. *Nature Genetics*, **1995**, 10, 243-5	36.3	170
299	Disruption of the beta-sarcoglycan gene reveals pathogenetic complexity of limb-girdle muscular dystrophy type 2E. *Molecular Cell*, **2000**, 5, 141-51	17.6	167
298	Cloning and tissue-specific expression of the brain calcium channel beta-subunit. *FEBS Letters*, **1991** , 291, 253-8	3.8	167
297	Mutations in GDP-mannose pyrophosphorylase B cause congenital and limb-girdle muscular dystrophies associated with hypoglycosylation of □dystroglycan. *American Journal of Human Genetics*, **2013**, 93, 29-41	11	162
296	SGK196 is a glycosylation-specific O-mannose kinase required for dystroglycan function. *Science*, **2013**, 341, 896-9	33.3	162
295	Further characterization of light and heavy sarcoplasmic reticulum vesicles. Identification of the 'sarcoplasmic reticulum feet' associated with heavy sarcoplasmic reticulum vesicles. *Biochimica Et Biophysica Acta - Biomembranes*, **1980**, 602, 97-116	3.8	161
294	Transcriptional upregulation of Cav3.2 mediates epileptogenesis in the pilocarpine model of epilepsy. *Journal of Neuroscience*, **2008**, 28, 13341-53	6.6	160
293	Minimum requirements for efficient transduction of dividing and nondividing cells by feline immunodeficiency virus vectors. *Journal of Virology*, **1999**, 73, 4991-5000	6.6	156

292	Forced expression of dystrophin deletion constructs reveals structure-function correlations. *Journal of Cell Biology*, **1996**, 134, 93-102	7.3	155
291	Distribution of dystroglycan in normal adult mouse tissues. *Journal of Histochemistry and Cytochemistry*, **1998**, 46, 449-57	3.4	153
290	Identification of a novel mutant transcript of laminin alpha 2 chain gene responsible for muscular dystrophy and dysmyelination in dy2J mice. *Human Molecular Genetics*, **1995**, 4, 1055-61	5.6	152
289	New World arenavirus clade C, but not clade A and B viruses, utilizes alpha-dystroglycan as its major receptor. *Journal of Virology*, **2002**, 76, 5140-6	6.6	151
288	Dp71 can restore the dystrophin-associated glycoprotein complex in muscle but fails to prevent dystrophy. *Nature Genetics*, **1994**, 8, 333-9	36.3	150
287	Dissection of functional domains of the voltage-dependent Ca2+ channel alpha2delta subunit. *Journal of Neuroscience*, **1997**, 17, 6884-91	6.6	149
286	Sarcospan, the 25-kDa transmembrane component of the dystrophin-glycoprotein complex. *Journal of Biological Chemistry*, **1997**, 272, 31221-4	5.4	142
285	Dystroglycan is selectively associated with inhibitory GABAergic synapses but is dispensable for their differentiation. *Journal of Neuroscience*, **2002**, 22, 4274-85	6.6	140
284	Mutations in B3GALNT2 cause congenital muscular dystrophy and hypoglycosylation of □dystroglycan. *American Journal of Human Genetics*, **2013**, 92, 354-65	11	139
283	Compositional differences between infant and adult human corneal basement membranes. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 4989-99		139
282	A beta 4 isoform-specific interaction site in the carboxyl-terminal region of the voltage-dependent Ca2+ channel alpha 1A subunit. *Journal of Biological Chemistry*, **1998**, 273, 2361-7	5.4	136
281	Molecular analysis of the interaction of LCMV with its cellular receptor [alpha]-dystroglycan. *Journal of Cell Biology*, **2001**, 155, 301-10	7.3	135
280	Expression of human full-length and minidystrophin in transgenic mdx mice: implications for gene therapy of Duchenne muscular dystrophy. *Human Molecular Genetics*, **1995**, 4, 1245-50	5.6	135
279	Dystrophin and the membrane skeleton. *Current Opinion in Cell Biology*, **1993**, 5, 82-7	9	135
278	Differences in affinity of binding of lymphocytic choriomeningitis virus strains to the cellular receptor alpha-dystroglycan correlate with viral tropism and disease kinetics. *Journal of Virology*, **2001**, 75, 448-57	6.6	133
277	Biosynthesis of dystroglycan: processing of a precursor propeptide. *FEBS Letters*, **2000**, 468, 79-83	3.8	133
276	Dystroglycan in development and disease. *Current Opinion in Cell Biology*, **1998**, 10, 594-601	9	132
275	Dysferlin-mediated membrane repair protects the heart from stress-induced left ventricular injury. *Journal of Clinical Investigation*, **2007**, 117, 1805-13	15.9	132

274	The Ca(v)3.2 T-type Ca(2+) channel is required for pressure overload-induced cardiac hypertrophy in mice. *Circulation Research*, **2009**, 104, 522-30	15.7	130
273	A beta-subunit normalizes the electrophysiological properties of a cloned N-type Ca2+ channel alpha 1-subunit. *Neuropharmacology*, **1993**, 32, 1103-16	5.5	127
272	Fukutin gene mutations cause dilated cardiomyopathy with minimal muscle weakness. *Annals of Neurology*, **2006**, 60, 597-602	9.4	124
271	Dystroglycan in the cerebellum is a laminin alpha 2-chain binding protein at the glial-vascular interface and is expressed in Purkinje cells. *European Journal of Neuroscience*, **1996**, 8, 2739-47	3.5	124
270	Properties of the alpha 1-beta anchoring site in voltage-dependent Ca2+ channels. *Journal of Biological Chemistry*, **1995**, 270, 12056-64	5.4	122
269	Matriglycan: a novel polysaccharide that links dystroglycan to the basement membrane. *Glycobiology*, **2015**, 25, 702-13	5.8	120
268	Beta subunit heterogeneity in N-type Ca2+ channels. *Journal of Biological Chemistry*, **1996**, 271, 3207-12	5.4	120
267	Membrane targeting and stabilization of sarcospan is mediated by the sarcoglycan subcomplex. *Journal of Cell Biology*, **1999**, 145, 153-65	7.3	120
266	Mild congenital muscular dystrophy in two patients with an internally deleted laminin alpha2-chain. *Human Molecular Genetics*, **1997**, 6, 747-52	5.6	119
265	The Ca2+-release channel/ryanodine receptor is localized in junctional and corbular sarcoplasmic reticulum in cardiac muscle. *Journal of Cell Biology*, **1993**, 120, 969-80	7.3	119
264	Dystroglycan is a binding protein of laminin and merosin in peripheral nerve. *FEBS Letters*, **1994**, 352, 49-53	3.8	119
263	Limb-girdle muscular dystrophy in the United States. *Journal of Neuropathology and Experimental Neurology*, **2006**, 65, 995-1003	3.1	118
262	Posttranslational modification of alpha-dystroglycan, the cellular receptor for arenaviruses, by the glycosyltransferase LARGE is critical for virus binding. *Journal of Virology*, **2005**, 79, 14282-96	6.6	117
261	Exogenous Dp71 restores the levels of dystrophin associated proteins but does not alleviate muscle damage in mdx mice. *Nature Genetics*, **1994**, 8, 340-4	36.3	115
260	beta subunit reshuffling modifies N- and P/Q-type Ca2+ channel subunit compositions in lethargic mouse brain. *Molecular and Cellular Neurosciences*, **1999**, 13, 293-311	4.8	114
259	Identification of Three Subunits of the High Affinity ω-Conotoxin MVIIC-sensitive Ca2+ Channel. *Journal of Biological Chemistry*, **1996**, 271, 13804-13810	5.4	114
258	Functional rescue of the sarcoglycan complex in the BIO 14.6 hamster using delta-sarcoglycan gene transfer. *Molecular Cell*, **1998**, 1, 841-8	17.6	111
257	Subcellular distribution of the 1,4-dihydropyridine receptor in rabbit skeletal muscle in situ: an immunofluorescence and immunocolloidal gold-labeling study. *Journal of Cell Biology*, **1989**, 109, 135-47	7.3	111

256	An HMGA2-IGF2BP2 axis regulates myoblast proliferation and myogenesis. *Developmental Cell*, **2012**, 23, 1176-88	10.2	110
255	Intracellular accumulation and reduced sarcolemmal expression of dysferlin in limb-girdle muscular dystrophies. *Annals of Neurology*, **2000**, 48, 902-912	9.4	107
254	Basal lamina strengthens cell membrane integrity via the laminin G domain-binding motif of alpha-dystroglycan. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 12573-9	11.5	106
253	The sarcoglycan complex in limb-girdle muscular dystrophy. *Current Opinion in Neurology*, **1998**, 11, 443-52	7.1	106
252	Cortical localization of a calcium release channel in sea urchin eggs. *Journal of Cell Biology*, **1992**, 116, 1111-21	7.3	103
251	Molecular pathogenesis of muscle degeneration in the delta-sarcoglycan-deficient hamster. *American Journal of Pathology*, **1998**, 153, 1623-30	5.8	102
250	Expression and subunit interaction of voltage-dependent Ca2+ channels in PC12 cells. *Journal of Neuroscience*, **1996**, 16, 7557-65	6.6	102
249	Identification of alpha-syntrophin binding to syntrophin triplet, dystrophin, and utrophin. *Journal of Biological Chemistry*, **1995**, 270, 4975-8	5.4	101
248	Clustering and immobilization of acetylcholine receptors by the 43-kD protein: a possible role for dystrophin-related protein. *Journal of Cell Biology*, **1993**, 123, 729-40	7.3	101
247	Ultrastructural localization of calsequestrin in rat skeletal muscle by immunoferritin labeling of ultrathin frozen sections. *Journal of Cell Biology*, **1983**, 97, 1573-81	7.3	101
246	epsilon-sarcoglycan replaces alpha-sarcoglycan in smooth muscle to form a unique dystrophin-glycoprotein complex. *Journal of Biological Chemistry*, **1999**, 274, 27989-96	5.4	100
245	Biochemical and biophysical evidence for gamma 2 subunit association with neuronal voltage-activated Ca2+ channels. *Journal of Biological Chemistry*, **2001**, 276, 32917-24	5.4	99
244	A comparative study of alpha-dystroglycan glycosylation in dystroglycanopathies suggests that the hypoglycosylation of alpha-dystroglycan does not consistently correlate with clinical severity. *Brain Pathology*, **2009**, 19, 596-611	6	98
243	Structural and functional diversity of voltage-activated calcium channels. *Ion Channels*, **1996**, 4, 41-87		95
242	mdx muscle pathology is independent of nNOS perturbation. *Human Molecular Genetics*, **1998**, 7, 823-9	5.6	94
241	Extracellular interaction of the voltage-dependent Ca2+ channel alpha2delta and alpha1 subunits. *Journal of Biological Chemistry*, **1997**, 272, 18508-12	5.4	93
240	Ultrastructural localization of calsequestrin in adult rat atrial and ventricular muscle cells. *Journal of Cell Biology*, **1985**, 101, 257-68	7.3	92
239	Both laminin and Schwann cell dystroglycan are necessary for proper clustering of sodium channels at nodes of Ranvier. *Journal of Neuroscience*, **2005**, 25, 9418-27	6.6	91

238	Distinct functions of glial and neuronal dystroglycan in the developing and adult mouse brain. *Journal of Neuroscience*, **2010**, 30, 14560-72	6.6	90
237	Subunit stoichiometry of human muscle chloride channels. *Journal of General Physiology*, **1997**, 109, 93-104	3.4	89
236	Characterization of dp6troglycan-laminin interaction in peripheral nerve. *Journal of Neurochemistry*, **1996**, 66, 1518-24	6	88
235	Congenital muscular dystrophy with rigid spine syndrome: A clinical, pathological, radiological, and genetic study. *Annals of Neurology*, **2000**, 47, 152-161	9.4	88
234	Prevention of cardiomyopathy in mouse models lacking the smooth muscle sarcoglycan-sarcospan complex. *Journal of Clinical Investigation*, **2001**, 107, R1-7	15.9	88
233	Biochemical characterization of the epithelial dystroglycan complex. *Journal of Biological Chemistry* , **1999**, 274, 26609-16	5.4	87
232	Proteolytic enzymes and altered glycosylation modulate dystroglycan function in carcinoma cells. *Cancer Research*, **2004**, 64, 6152-9	10.1	86
231	Assembly of the sarcoglycan complex. Insights for muscular dystrophy. *Journal of Biological Chemistry*, **1998**, 273, 34667-70	5.4	86
230	Association of native Ca2+ channel beta subunits with the alpha 1 subunit interaction domain. *Journal of Biological Chemistry*, **1995**, 270, 18088-93	5.4	85
229	A monoclonal antibody to the Ca2+-ATPase of cardiac sarcoplasmic reticulum cross-reacts with slow type I but not with fast type II canine skeletal muscle fibers: an immunocytochemical and immunochemical study. *Cytoskeleton*, **1988**, 9, 164-74		85
228	Loss of alpha-dystroglycan laminin binding in epithelium-derived cancers is caused by silencing of LARGE. *Journal of Biological Chemistry*, **2009**, 284, 11279-84	5.4	84
227	Reduced expression of dystroglycan in breast and prostate cancer. *Human Pathology*, **2001**, 32, 791-5	3.7	84
226	Biochemical characterization and molecular cloning of cardiac triadin. *Journal of Biological Chemistry*, **1996**, 271, 458-65	5.4	83
225	Dystroglycan expression in the wild type and mdx mouse neural retina: synaptic colocalization with dystrophin, dystrophin-related protein but not laminin. *Journal of Neuroscience Research*, **1995**, 42, 528-38	4.4	83
224	Linkage of the gene for cystinosis to markers on the short arm of chromosome 17. The Cystinosis Collaborative Research Group. *Nature Genetics*, **1995**, 10, 246-8	36.3	82
223	Like-acetylglucosaminyltransferase (LARGE)-dependent modification of dystroglycan at Thr-317/319 is required for laminin binding and arenavirus infection. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 17426-31	11.5	81
222	Point mutation in the glycoprotein of lymphocytic choriomeningitis virus is necessary for receptor binding, dendritic cell infection, and long-term persistence. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 2969-74	11.5	81
221	Dystroglycan loss disrupts polarity and beta-casein induction in mammary epithelial cells by perturbing laminin anchoring. *Journal of Cell Science*, **2006**, 119, 4047-58	5.3	81

220	LARGE glycans on dystroglycan function as a tunable matrix scaffold to prevent dystrophy. *Nature*, **2013**, 503, 136-40	50.4	79
219	Prevention of dystrophic pathology in mdx mice by a truncated dystrophin isoform. *Human Molecular Genetics*, **1994**, 3, 1725-33	5.6	78
218	Centronuclear myopathy in mice lacking a novel muscle-specific protein kinase transcriptionally regulated by MEF2. *Genes and Development*, **2005**, 19, 2066-77	12.6	77
217	Identification of critical amino acids involved in alpha1-beta interaction in voltage-dependent Ca2+ channels. *FEBS Letters*, **1996**, 380, 272-6	3.8	77
216	Abnormal expression of dystrophin-associated proteins in Fukuyama-type congenital muscular dystrophy. *Lancet, The*, **1993**, 341, 521-2	40	76
215	Evidence for a role of dystroglycan regulating the membrane architecture of astroglial endfeet. *European Journal of Neuroscience*, **2011**, 33, 2179-86	3.5	75
214	Loss of sarcolemma nNOS in sarcoglycan-deficient muscle. *FASEB Journal*, **2002**, 16, 1786-91	0.9	75
213	Characterization of delta-sarcoglycan, a novel component of the oligomeric sarcoglycan complex involved in limb-girdle muscular dystrophy. *Journal of Biological Chemistry*, **1996**, 271, 32321-9	5.4	75
212	A role of dystroglycan in schwannoma cell adhesion to laminin. *Journal of Biological Chemistry*, **1997** , 272, 13904-10	5.4	74
211	The functional O-mannose glycan on □dystroglycan contains a phospho-ribitol primed for matriglycan addition. *ELife*, **2016**, 5,	8.9	73
210	Brief report: deficiency of a dystrophin-associated glycoprotein (adhalin) in a patient with muscular dystrophy and cardiomyopathy. *New England Journal of Medicine*, **1996**, 334, 362-6	59.2	72
209	CaV3.2 is the major molecular substrate for redox regulation of T-type Ca2+ channels in the rat and mouse thalamus. *Journal of Physiology*, **2006**, 574, 415-30	3.9	72
208	Differential expression of aquaporin 8 in human colonic epithelial cells and colorectal tumors. *BMC Physiology*, **2001**, 1, 1	0	71
207	A biochemical, genetic, and clinical survey of autosomal recessive limb girdle muscular dystrophies in Turkey. *Annals of Neurology*, **1997**, 42, 222-9	9.4	70
206	Interactions of intermediate filament protein synemin with dystrophin and utrophin. *Biochemical and Biophysical Research Communications*, **2006**, 346, 768-77	3.4	70
205	Specific association of calmodulin-dependent protein kinase and related substrates with the junctional sarcoplasmic reticulum of skeletal muscle. *Biochemistry*, **1990**, 29, 5899-905	3.2	70
204	Dystroglycan binding to laminin alpha1LG4 module influences epithelial morphogenesis of salivary gland and lung in vitro. *Differentiation*, **2001**, 69, 121-34	3.5	69
203	The voltage-dependent calcium channel beta subunit contains two stable interacting domains. *Journal of Biological Chemistry*, **2003**, 278, 52323-32	5.4	68

202	Presence of inositol 1,4,5-trisphosphate receptor, calreticulin, and calsequestrin in eggs of sea urchins and Xenopus laevis. *Developmental Biology*, **1994**, 161, 466-76	3.1	68
201	The glucuronyltransferase B4GAT1 is required for initiation of LARGE-mediated □dystroglycan functional glycosylation. *ELife*, **2014**, 3,	8.9	67
200	Caveolin-3 is not an integral component of the dystrophin glycoprotein complex. *FEBS Letters*, **1998**, 427, 279-82	3.8	66
199	Brain and eye malformations resembling Walker-Warburg syndrome are recapitulated in mice by dystroglycan deletion in the epiblast. *Journal of Neuroscience*, **2008**, 28, 10567-75	6.6	66
198	ISPD gene mutations are a common cause of congenital and limb-girdle muscular dystrophies. *Brain*, **2013**, 136, 269-81	11.2	65
197	Decoding arenavirus pathogenesis: essential roles for alpha-dystroglycan-virus interactions and the immune response. *Virology*, **2011**, 411, 170-9	3.6	65
196	The calcium signal and neutrophil activation. *Clinical Biochemistry*, **1990**, 23, 159-66	3.5	65
195	Genetic ablation of complement C3 attenuates muscle pathology in dysferlin-deficient mice. *Journal of Clinical Investigation*, **2010**, 120, 4366-74	15.9	65
194	Residual laminin-binding activity and enhanced dystroglycan glycosylation by LARGE in novel model mice to dystroglycanopathy. *Human Molecular Genetics*, **2009**, 18, 621-31	5.6	64
193	Evidence for the presence of calsequestrin in two structurally different regions of myocardial sarcoplasmic reticulum. *Journal of Cell Biology*, **1984**, 98, 1597-602	7.3	64
192	Quercetin inhibits Ca2+ uptake but not Ca2+ release by sarcoplasmic reticulum in skinned muscle fibers. *Proceedings of the National Academy of Sciences of the United States of America*, **1980**, 77, 4435-8	11.5	64
191	Glycomic analyses of mouse models of congenital muscular dystrophy. *Journal of Biological Chemistry*, **2011**, 286, 21180-90	5.4	63
190	Distribution of alpha-dystroglycan during embryonic nerve-muscle synaptogenesis. *Journal of Cell Biology*, **1995**, 129, 1093-101	7.3	63
189	A common missense mutation in the adhalin gene in three unrelated Brazilian families with a relatively mild form of autosomal recessive limb-girdle muscular dystrophy. *Human Molecular Genetics*, **1995**, 4, 1163-7	5.6	63
188	Alpha6beta4 integrin and dystroglycan cooperate to stabilize the myelin sheath. *Journal of Neuroscience*, **2008**, 28, 6714-9	6.6	62
187	Common pathological mechanisms in mouse models for muscular dystrophies. *FASEB Journal*, **2006**, 20, 127-9	0.9	62
186	Are voltage-dependent ion channels involved in the endothelial cell control of vasomotor tone?. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H1371-83	5.2	62
185	Structural basis of laminin binding to the LARGE glycans on dystroglycan. *Nature Chemical Biology*, **2016**, 12, 810-4	11.7	61

184	Transmembrane auxiliary subunits of voltage-dependent ion channels. *Journal of Biological Chemistry*, **1996**, 271, 27975-8	5.4	61
183	Gamma subunit of voltage-activated calcium channels. *Journal of Biological Chemistry*, **2003**, 278, 21315-8	5.4	61
182	Opposing roles of integrin alpha6Abeta1 and dystroglycan in laminin-mediated extracellular signal-regulated kinase activation. *Molecular Biology of the Cell*, **2003**, 14, 2088-103	3.5	61
181	Congenital disorder of glycosylation due to DPM1 mutations presenting with dystroglycanopathy-type congenital muscular dystrophy. *Molecular Genetics and Metabolism*, **2013**, 110, 345-351	3.7	60
180	Sarcospan-deficient mice maintain normal muscle function. *Molecular and Cellular Biology*, **2000**, 20, 1669-77	4.7	59
179	Contrast agent-enhanced magnetic resonance imaging of skeletal muscle damage in animal models of muscular dystrophy. *Magnetic Resonance in Medicine*, **2000**, 44, 655-9	4.4	58
178	Dystrophin-glycoprotein complex. *Current Opinion in Neurology*, **1995**, 8, 379-384	7.1	58
177	Old World and clade C New World arenaviruses mimic the molecular mechanism of receptor recognition used by alpha-dystroglycan's host-derived ligands. *Journal of Virology*, **2007**, 81, 5685-95	6.6	57
176	Differential expression of dystrophin, utrophin and dystrophin-associated proteins in peripheral nerve. *FEBS Letters*, **1993**, 334, 281-5	3.8	57
175	Dystroglycan on radial glia end feet is required for pial basement membrane integrity and columnar organization of the developing cerebral cortex. *Journal of Neuropathology and Experimental Neurology*, **2012**, 71, 1047-63	3.1	56
174	Absence of the skeletal muscle sarcolemma chloride channel ClC-1 in myotonic mice. *Journal of Biological Chemistry*, **1995**, 270, 9035-8	5.4	56
173	Proteomic analysis of plasma membrane and secretory vesicles from human neutrophils. *Proteome Science*, **2007**, 5, 12	2.6	55
172	Ca-ATPase isozyme expression in sarcoplasmic reticulum is altered by chronic stimulation of skeletal muscle. *FEBS Letters*, **1990**, 259, 269-72	3.8	55
171	Laminin-6 assembles into multimolecular fibrillar complexes with perlecan and participates in mechanical-signal transduction via a dystroglycan-dependent, integrin-independent mechanism. *Journal of Cell Science*, **2005**, 118, 2557-66	5.3	53
170	Skeletal muscle basement membrane-sarcolemma-cytoskeleton interaction minireview series. *Journal of Biological Chemistry*, **2003**, 278, 12599-600	5.4	52
169	Deficiency of dystrophin-associated proteins: a common mechanism leading to muscle cell necrosis in severe childhood muscular dystrophies. *Neuromuscular Disorders*, **1993**, 3, 109-18	2.9	50
168	Xylosyl- and glucuronyltransferase functions of LARGE in α-dystroglycan modification are conserved in LARGE2. *Glycobiology*, **2013**, 23, 295-302	5.8	47
167	Mouse fukutin deletion impairs dystroglycan processing and recapitulates muscular dystrophy. *Journal of Clinical Investigation*, **2012**, 122, 3330-42	15.9	46

166	Visual impairment in the absence of dystroglycan. *Journal of Neuroscience*, **2009**, 29, 13136-46	6.6	45
165	Loss of basement membrane, receptor and cytoskeletal lattices in a laminin-deficient muscular dystrophy. *Journal of Cell Science*, **2004**, 117, 735-42	5.3	45
164	Neural regulation of alpha-dystroglycan biosynthesis and glycosylation in skeletal muscle. *Journal of Neurochemistry*, **2000**, 74, 70-80	6	45
163	Characterization of the purified N-type Ca2+ channel and the cation sensitivity of omega-conotoxin GVIA binding. *Neuropharmacology*, **1993**, 32, 1127-39	5.5	45
162	Identification of novel proteins unique to either transverse tubules (TS28) or the sarcolemma (SL50) in rabbit skeletal muscle. *Journal of Cell Biology*, **1990**, 110, 1173-85	7.3	45
161	The role of the dystrophin-glycoprotein complex in the molecular pathogenesis of muscular dystrophies. *Neuromuscular Disorders*, **1993**, 3, 533-5	2.9	44
160	Genetic heterogeneity for Duchenne-like muscular dystrophy (DLMD) based on linkage and 50 DAG analysis. *Human Molecular Genetics*, **1993**, 2, 1945-7	5.6	44
159	Characterization of aquaporin-4 in muscle and muscular dystrophy. *FASEB Journal*, **2002**, 16, 943-9	0.9	43
158	Neuronal Dystroglycan Is Necessary for Formation and Maintenance of Functional CCK-Positive Basket Cell Terminals on Pyramidal Cells. *Journal of Neuroscience*, **2016**, 36, 10296-10313	6.6	43
157	Cav3.2 T-type calcium channel is required for the NFAT-dependent Sox9 expression in tracheal cartilage. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E1990-8	11.5	42
156	A 5' dystrophin duplication mutation causes membrane deficiency of alpha-dystroglycan in a family with X-linked cardiomyopathy. *Journal of Molecular and Cellular Cardiology*, **1997**, 29, 3175-88	5.8	42
155	Expression, localization and functions in acrosome reaction and sperm motility of Ca(V)3.1 and Ca(V)3.2 channels in sperm cells: an evaluation from Ca(V)3.1 and Ca(V)3.2 deficient mice. *Journal of Cellular Physiology*, **2007**, 212, 753-63	7	42
154	Long-term skeletal muscle protection after gene transfer in a mouse model of LGMD-2D. *Molecular Therapy*, **2007**, 15, 1775-81	11.7	42
153	Disruption of perlecan binding and matrix assembly by post-translational or genetic disruption of dystroglycan function. *FEBS Letters*, **2005**, 579, 4792-6	3.8	42
152	Intramembrane charge movements and excitation- contraction coupling expressed by two-domain fragments of the Ca2+ channel. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 6935-40	11.5	42
151	Early adenovirus-mediated gene transfer effectively prevents muscular dystrophy in alpha-sarcoglycan-deficient mice. *Gene Therapy*, **2000**, 7, 1385-91	4	41
150	Evidence for a 95 kDa short form of the alpha1A subunit associated with the omega-conotoxin MVIIC receptor of the P/Q-type Ca2+ channels. *Journal of Neuroscience*, **1998**, 18, 641-7	6.6	41
149	Analysis of excitation-contraction-coupling components in chronically stimulated canine skeletal muscle. *FEBS Journal*, **1991**, 202, 739-47		41

148	Dystrophin deficiency exacerbates skeletal muscle pathology in dysferlin-null mice. *Skeletal Muscle*, **2011**, 1, 35	5.1	40
147	Rab3-interacting molecule gamma isoforms lacking the Rab3-binding domain induce long lasting currents but block neurotransmitter vesicle anchoring in voltage-dependent P/Q-type Ca2+ channels. *Journal of Biological Chemistry*, **2010**, 285, 21750-67	5.4	40
146	Insulin resistance in striated muscle-specific integrin receptor beta1-deficient mice. *Journal of Biological Chemistry*, **2009**, 284, 4679-88	5.4	40
145	Old World arenavirus infection interferes with the expression of functional alpha-dystroglycan in the host cell. *Molecular Biology of the Cell*, **2007**, 18, 4493-507	3.5	40
144	Modified cardiovascular L-type channels in mice lacking the voltage-dependent Ca2+ channel beta3 subunit. *Journal of Biological Chemistry*, **2003**, 278, 43261-7	5.4	40
143	Ion pathways in proteins of the sarcoplasmic reticulum. *Annals of the New York Academy of Sciences*, **1980**, 358, 138-48	6.5	40
142	Dystrophin-associated glycoproteins: their possible roles in the pathogenesis of Duchenne muscular dystrophy. *Molecular and Cell Biology of Human Diseases Series*, **1993**, 3, 139-66		40
141	Chloride-induced release of actively loaded calcium from light and heavy sarcoplasmic reticulum vesicles. *Journal of Membrane Biology*, **1980**, 54, 73-80	2.3	39
140	Congenital muscular dystrophy type 1D (MDC1D) due to a large intragenic insertion/deletion, involving intron 10 of the LARGE gene. *European Journal of Human Genetics*, **2011**, 19, 452-7	5.3	38
139	Beta-sarcoglycan: genomic analysis and identification of a novel missense mutation in the LGMD2E Amish isolate. *Neuromuscular Disorders*, **1998**, 8, 30-8	2.9	38
138	Laminin isoforms differentially regulate adhesion, spreading, proliferation, and ERK activation of beta1 integrin-null cells. *Experimental Cell Research*, **2004**, 300, 94-108	4.2	37
137	Expression of gamma -sarcoglycan in smooth muscle and its interaction with the smooth muscle sarcoglycan-sarcospan complex. *Journal of Biological Chemistry*, **2000**, 275, 38554-60	5.4	37
136	Absence of gamma-sarcoglycan (35 DAG) in autosomal recessive muscular dystrophy linked to chromosome 13q12. *FEBS Letters*, **1996**, 381, 15-20	3.8	37
135	Sarcolemmal-restricted localization of functional ClC-1 channels in mouse skeletal muscle. *Journal of General Physiology*, **2010**, 136, 597-613	3.4	35
134	Dystroglycan matrix receptor function in cardiac myocytes is important for limiting activity-induced myocardial damage. *Circulation Research*, **2009**, 105, 984-93	15.7	35
133	Fukutin-related protein associates with the sarcolemmal dystrophin-glycoprotein complex. *Journal of Biological Chemistry*, **2007**, 282, 16713-7	5.4	35
132	Gamma 1 subunit interactions within the skeletal muscle L-type voltage-gated calcium channels. *Journal of Biological Chemistry*, **2003**, 278, 1212-9	5.4	35
131	Cell stiffness and receptors: evidence for cytoskeletal subnetworks. *American Journal of Physiology - Cell Physiology*, **2005**, 288, C72-80	5.4	34

130	Long-term regulation of voltage-gated Ca(2+) channels by gabapentin. *FEBS Letters*, **2002**, 528, 177-82	3.8	34
129	Phosphorylation of heavy sarcoplasmic reticulum vesicles: identification and characterization of three phosphorylated proteins. *Journal of Membrane Biology*, **1980**, 56, 241-8	2.3	34
128	Congenital muscular dystrophy with glycosylation defects of alpha-dystroglycan in Japan. *Neuromuscular Disorders*, **2005**, 15, 342-8	2.9	33
127	Expression of dystrophin-associated glycoproteins during human fetal muscle development: a preliminary immunocytochemical study. *Neuromuscular Disorders*, **1994**, 4, 343-8	2.9	33
126	GMPPB-Associated Dystroglycanopathy: Emerging Common Variants with Phenotype Correlation. *Human Mutation*, **2015**, 36, 1159-63	4.7	31
125	Combined deficiency of alpha and epsilon sarcoglycan disrupts the cardiac dystrophin complex. *Human Molecular Genetics*, **2011**, 20, 4644-54	5.6	31
124	Gene transfer establishes primacy of striated vs. smooth muscle sarcoglycan complex in limb-girdle muscular dystrophy. *Proceedings of the National Academy of Sciences of the United States of America* , **2003**, 100, 8910-5	11.5	31
123	An investigation of functional similarities between the sarcoplasmic reticulum and platelet calcium-dependent adenosinetriphosphatases with the inhibitors quercetin and calmidazolium. *Biochemistry*, **1987**, 26, 8024-30	3.2	31
122	Sarcoglycan complex: implications for metabolic defects in muscular dystrophies. *Journal of Biological Chemistry*, **2009**, 284, 19178-82	5.4	30
121	Endpoint measures in the mdx mouse relevant for muscular dystrophy pre-clinical studies. *Neuromuscular Disorders*, **2012**, 22, 34-42	2.9	29
120	Training the next generation of biomedical investigators in glycosciences. *Journal of Clinical Investigation*, **2016**, 126, 405-8	15.9	29
119	Binding of Lassa virus perturbs extracellular matrix-induced signal transduction via dystroglycan. *Cellular Microbiology*, **2012**, 14, 1122-34	3.9	28
118	Aberrant glycosylation of alpha-dystroglycan causes defective binding of laminin in the muscle of chicken muscular dystrophy. *FEBS Letters*, **2005**, 579, 2359-63	3.8	28
117	Restoration of dystrophin-associated proteins in skeletal muscle of mdx mice transgenic for dystrophin gene. *FEBS Letters*, **1993**, 320, 276-80	3.8	28
116	Transient expression of Dp140, a product of the Duchenne muscular dystrophy locus, during kidney tubulogenesis. *Developmental Biology*, **1997**, 181, 156-67	3.1	27
115	Modulation of L-type Ca2+ current but not activation of Ca2+ release by the gamma1 subunit of the dihydropyridine receptor of skeletal muscle. *BMC Physiology*, **2001**, 1, 8	0	27
114	Purification of dystrophin-related protein (utrophin) from lung and its identification in pulmonary artery endothelial cells. *FEBS Letters*, **1993**, 326, 289-93	3.8	27
113	Loss of LARGE2 disrupts functional glycosylation of ⊞dystroglycan in prostate cancer. *Journal of Biological Chemistry*, **2013**, 288, 2132-42	5.4	26

112	The alpha(2)delta subunit augments functional expression and modifies the pharmacology of Ca(V)1.3 L-type channels. *Cell Calcium*, **2009**, 46, 282-92	4	26
111	Expression of dystrophin-associated proteins in dystrophin-positive muscle fibers (revertants) in Duchenne muscular dystrophy. *Neuromuscular Disorders*, **1994**, 4, 115-20	2.9	26
110	Involvement of Ca2+ channel synprint site in synaptic vesicle endocytosis. *Journal of Neuroscience*, **2010**, 30, 655-60	6.6	25
109	A common disease-associated missense mutation in alpha-sarcoglycan fails to cause muscular dystrophy in mice. *Human Molecular Genetics*, **2008**, 17, 1201-13	5.6	25
108	Phenotypic heterogeneity in the stargazin allelic series. *Mammalian Genome*, **2003**, 14, 506-13	3.2	25
107	Mutation associated with an autosomal dominant cone-rod dystrophy CORD7 modifies RIM1-mediated modulation of voltage-dependent Ca2+ channels. *Channels*, **2007**, 1, 144-7	3	24
106	Structure, function and biosynthesis of sarcoplasmic reticulum proteins. *Trends in Biochemical Sciences*, **1979**, 4, 148-151	10.3	24
105	Role of dystroglycan in limiting contraction-induced injury to the sarcomeric cytoskeleton of mature skeletal muscle. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 10992-7	11.5	23
104	Anti-epileptic drugs delay age-related loss of spiral ganglion neurons via T-type calcium channel. *Hearing Research*, **2011**, 278, 106-12	3.9	23
103	Dystroglycan controls signaling of multiple hormones through modulation of STAT5 activity. *Journal of Cell Science*, **2010**, 123, 3683-92	5.3	23
102	Basolateral entry and release of New and Old World arenaviruses from human airway epithelia. *Journal of Virology*, **2008**, 82, 6034-8	6.6	23
101	Inhibition of recombinant N-type Ca(V) channels by the gamma 2 subunit involves unfolded protein response (UPR)-dependent and UPR-independent mechanisms. *Journal of Neuroscience*, **2007**, 27, 3317-27	6.6	23
100	A functional AMPA receptor-calcium channel complex in the postsynaptic membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 5561-6	11.5	23
99	DIDS inhibition of sarcoplasmic reticulum anion efflux and calcium transport. *Annals of the New York Academy of Sciences*, **1980**, 358, 328-31	6.5	23
98	Structure of protein O-mannose kinase reveals a unique active site architecture. *ELife*, **2016**, 5,	8.9	23
97	Glial scaffold required for cerebellar granule cell migration is dependent on dystroglycan function as a receptor for basement membrane proteins. *Acta Neuropathologica Communications*, **2013**, 1, 58	7.3	22
96	Cell entry of Lassa virus induces tyrosine phosphorylation of dystroglycan. *Cellular Microbiology*, **2013**, 15, 689-700	3.9	22
95	Targeting Schwann cells by nonlytic arenaviral infection selectively inhibits myelination. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 16071-6	11.5	22

94	Expression of dystrophin-associated glycoproteins and utrophin in carriers of Duchenne muscular dystrophy. *Neuromuscular Disorders*, **1994**, 4, 401-9	2.9	22
93	Biallelic Mutations in TMTC3, Encoding a Transmembrane and TPR-Containing Protein, Lead to Cobblestone Lissencephaly. *American Journal of Human Genetics*, **2016**, 99, 1181-1189	11	21
92	Reactive oxygen species deglycosilate glomerular alpha-dystroglycan. *Kidney International*, **2006**, 69, 1526-34	9.9	21
91	Identification and characterization of proteins in sarcoplasmic reticulum from normal and failing human left ventricles. *Journal of Molecular and Cellular Cardiology*, **1990**, 22, 1477-85	5.8	21
90	Further evidence of Fukutin mutations as a cause of childhood onset limb-girdle muscular dystrophy without mental retardation. *Neuromuscular Disorders*, **2009**, 19, 352-6	2.9	20
89	Contact-dependent regulation of N-type calcium channel subunits during synaptogenesis. *Journal of Neurobiology*, **1998**, 35, 198-208		20
88	Structural and functional correlates of a mutation in the malignant hyperthermia-susceptible pig ryanodine receptor. *FEBS Letters*, **1992**, 301, 49-52	3.8	20
87	Abnormal expression of laminin suggests disturbance of sarcolemma-extracellular matrix interaction in Japanese patients with autosomal recessive muscular dystrophy deficient in adhalin. *Journal of Clinical Investigation*, **1994**, 94, 601-6	15.9	20
86	The expression of dystrophin-associated glycoproteins during skeletal muscle degeneration and regeneration. An immunofluorescence study. *Journal of Neuropathology and Experimental Neurology*, **1995**, 54, 557-69	3.1	19
85	Calcium transport by sarcoplasmic reticulum of skeletal muscle is inhibited by antibodies against the 53-kilodalton glycoprotein of the sarcoplasmic reticulum membrane. *Biochemistry*, **1989**, 28, 4830-9	3.2	19
84	Alpha-dystroglycan can mediate arenavirus infection in the absence of beta-dystroglycan. *Virology*, **2003**, 316, 213-20	3.6	18
83	Deficiency of the 50 kDa dystrophin-associated glycoprotein and abnormal expression of utrophin in two south Asian cousins with variable expression of severe childhood autosomal recessive muscular dystrophy. *Neuromuscular Disorders*, **1994**, 4, 121-9	2.9	18
82	Dystroglycan Maintains Inner Limiting Membrane Integrity to Coordinate Retinal Development. *Journal of Neuroscience*, **2017**, 37, 8559-8574	6.6	17
81	Assessment of the 50-kDa dystrophin-associated glycoprotein in Brazilian patients with severe childhood autosomal recessive muscular dystrophy. *Journal of the Neurological Sciences*, **1994**, 123, 122-8	3.2	17
80	Muscular dystrophy associated with beta-Dystroglycan deficiency. *Annals of Neurology*, **1996**, 40, 925-8	9.4	16
79	Caveolin 3 is associated with the calcium release complex and is modified via in vivo triadin modification. *Biochemistry*, **2010**, 49, 6130-5	3.2	15
78	Molecular characterization of a two-domain form of the neuronal voltage-gated P/Q-type calcium channel alpha(1)2.1 subunit. *FEBS Letters*, **2002**, 532, 300-8	3.8	15
77	Dystroglycan overexpression in vivo alters acetylcholine receptor aggregation at the neuromuscular junction. *Developmental Biology*, **2000**, 227, 595-605	3.1	15

76	Role of the ryanodine receptor of skeletal muscle in excitation-contraction coupling. *Annals of the New York Academy of Sciences*, **1989**, 560, 155-62	6.5	15
75	Molecular Signatures of Membrane Protein Complexes Underlying Muscular Dystrophy. *Molecular and Cellular Proteomics*, **2016**, 15, 2169-85	7.6	15
74	Dystroglycan is involved in laminin-1-stimulated motility of Müller glial cells: combined velocity and directionality analysis. *Glia*, **2005**, 49, 492-500	9	14
73	Muscles of mice deficient in alpha-sarcoglycan maintain large masses and near control force values throughout the life span. *Physiological Genomics*, **2005**, 22, 244-56	3.6	14
72	Localization of alpha-dystroglycan on the podocyte: from top to toe. *Journal of Histochemistry and Cytochemistry*, **2005**, 53, 1345-53	3.4	14
71	Clinical heterogeneity of adhalin deficiency. *Annals of Neurology*, **1996**, 39, 196-202	9.4	14
70	Expression of sialidase and dystroglycan in human glomerular diseases. *Nephrology Dialysis Transplantation*, **2010**, 25, 478-84	4.3	13
69	Analysis of the role of dystroglycan in early postimplantation mouse development. *Annals of the New York Academy of Sciences*, **1998**, 857, 256-9	6.5	13
68	Purification and reconstitution of N-type calcium channel complex from rabbit brain. *Methods in Enzymology*, **1994**, 238, 335-48	1.7	13
67	The dystroglycan receptor maintains glioma stem cells in the vascular niche. *Acta Neuropathologica*, **2019**, 138, 1033-1052	14.3	12
66	Exome sequencing reveals independent SGCD deletions causing limb girdle muscular dystrophy in Boston terriers. *Skeletal Muscle*, **2017**, 7, 15	5.1	12
65	A novel missense mutation in POMT1 modulates the severe congenital muscular dystrophy phenotype associated with POMT1 nonsense mutations. *Neuromuscular Disorders*, **2014**, 24, 312-20	2.9	12
64	Neurosensory hearing loss in secondary adhalinopathy. *Neuropediatrics*, **1996**, 27, 32-6	1.6	12
63	gamma1-dependent down-regulation of recombinant voltage-gated Ca2+ channels. *Cellular and Molecular Neurobiology*, **2007**, 27, 901-8	4.6	12
62	From adhalinopathies to alpha-sarcoglycanopathies: an overview. *Neuromuscular Disorders*, **1996**, 6, 463-5	2.9	12
61	Alpha-dystroglycan deficiency correlates with elevated serum creatine kinase and decreased muscle contraction tension in golden retriever muscular dystrophy. *FEBS Letters*, **1994**, 350, 173-6	3.8	12
60	Biochemical and pathological changes result from mutated Caveolin-3 in muscle. *Skeletal Muscle*, **2018**, 8, 28	5.1	12
59	Expression of deletion-containing dystrophins in mdx muscle: implications for gene therapy and dystrophin function. *Pediatric Research*, **1995**, 37, 693-700	3.2	11

58	Frog cardiac calsequestrin. Identification, characterization, and subcellular distribution in two structurally distinct regions of peripheral sarcoplasmic reticulum in frog ventricular myocardium. *Circulation Research*, **1991**, 69, 344-59	15.7	11
57	LARGE2-dependent glycosylation confers laminin-binding ability on proteoglycans. *Glycobiology*, **2016**, 26, 1284-1296	5.8	11
56	Protective role for the N-terminal domain of □dystroglycan in Influenza A virus proliferation. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 11396-11401	11.5	10
55	Collagen VI deficiency reduces muscle pathology, but does not improve muscle function, in the □sarcoglycan-null mouse. *Human Molecular Genetics*, **2016**, 25, 1357-69	5.6	10
54	Endogenous glucuronyltransferase activity of LARGE or LARGE2 required for functional modification of □dystroglycan in cells and tissues. *Journal of Biological Chemistry*, **2014**, 289, 28138-48	5.4	10
53	Two separate Ni(2+) -sensitive voltage-gated Ca(2+) channels modulate transretinal signalling in the isolated murine retina. *Acta Ophthalmologica*, **2011**, 89, e579-90	3.7	10
52	Evidence for the presence of calsequestrin in both peripheral and interior regions of sheep Purkinje fibers. *Circulation Research*, **1984**, 55, 267-70	15.7	10
51	Uniparental disomy unveils a novel recessive mutation in POMT2. *Neuromuscular Disorders*, **2018**, 28, 592-596	2.9	9
50	Adenosine A(3) receptor stimulation induces protection of skeletal muscle from eccentric exercise-mediated injury. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2010**, 299, R259-67	3.2	9
49	Exercise-induced left ventricular systolic dysfunction in women heterozygous for dystrophinopathy. *Journal of the American Society of Echocardiography*, **2010**, 23, 848-53	5.8	9
48	A novel POMT2 mutation causes mild congenital muscular dystrophy with normal brain MRI. *Brain and Development*, **2009**, 31, 465-8	2.2	9
47	Identification of muscle-specific calpain and beta-sarcoglycan genes in progressive autosomal recessive muscular dystrophies. *Neuromuscular Disorders*, **1996**, 6, 455-62	2.9	9
46	Variable disease severity in Saudi Arabian and Sudanese families with c.3924 + 2 T > C mutation of LAMA2. *BMC Research Notes*, **2011**, 4, 534	2.3	7
45	Antibodies against the Calcium-Binding Protein: Calsequestrin from Streptanthus tortuosus (Brassicaceae). *Plant Physiology*, **1989**, 91, 1259-61	6.6	7
44	High-affinity antibodies to the 1,4-dihydropyridine Ca2+-channel blockers. *Proceedings of the National Academy of Sciences of the United States of America*, **1986**, 83, 2792-6	11.5	7
43	Partial deficiency of dystrophin-associated proteins in a young girl with sporadic myopathy and normal karyotype. *Neurology*, **1993**, 43, 1267-8	6.5	7
42	220th ENMC workshop: Dystroglycan and the dystroglycanopathies Naarden, The Netherlands, 27-29 May 2016. *Neuromuscular Disorders*, **2017**, 27, 387-395	2.9	6
41	Exogenous expression of the glycosyltransferase LARGE1 restores □dystroglycan matriglycan and laminin binding in rhabdomyosarcoma. *Skeletal Muscle*, **2019**, 9, 11	5.1	6

40	Dynamic Dystroglycan Complexes Mediate Cell Entry of Lassa Virus. *MBio*, **2019**, 10,	7.8	6
39	Adhalin mRNA and cDNA sequence are normal in the cardiomyopathic hamster. *FEBS Letters*, **1995**, 364, 245-9	3.8	6
38	Functional glycosylation of dystroglycan is crucial for thymocyte development in the mouse. *PLoS ONE*, **2010**, 5, e9915	3.7	6
37	Clinical utility of RNA sequencing to resolve unusual GNE myopathy with a novel promoter deletion. *Muscle and Nerve*, **2019**, 60, 98-103	3.4	5
36	Adhalin gene polymorphism. *Human Molecular Genetics*, **1994**, 3, 2269	5.6	5
35	Radioimmunoassay for the calcium release channel agonist ryanodine. *Analytical Biochemistry*, **1994** , 218, 55-62	3.1	5
34	POMK regulates dystroglycan function via LARGE1-mediated elongation of matriglycan. *ELife*, **2020** , 9,	8.9	5
33	Molecular basis of muscular dystrophies **2000**, 23, 1456		5
32	Limb-girdle muscular dystrophies. *Advances in Neurology*, **2002**, 88, 273-91		5
31	HNK-1 sulfotransferase modulates □dystroglycan glycosylation by 3-O-sulfation of glucuronic acid on matriglycan. *Glycobiology*, **2020**, 30, 817-829	5.8	4
30	Skeletal Muscle - one year on. *Skeletal Muscle*, **2012**, 2, 1	5.1	4
29	32,000-Dalton subunit of the 1,4-dihydropyridine receptor. *Annals of the New York Academy of Sciences*, **1989**, 560, 251-7	6.5	4
28	Genetic characterization and improved genotyping of the dysferlin-deficient mouse strain Dysf (tm1Kcam). *Skeletal Muscle*, **2015**, 5, 32	5.1	3
27	227 ENMC International Workshop:: Finalizing a plan to guarantee quality in translational research for neuromuscular diseases Heemskerk, Netherlands, 10-11 February 2017. *Neuromuscular Disorders*, **2018**, 28, 185-192	2.9	3
26	Third International Workshop for Glycosylation Defects in Muscular Dystrophies, 18-19 April 2013, Charlotte, USA. *Brain Pathology*, **2014**, 24, 280-4	6	2
25	Skeletal Muscle Dystrophin-Glycoprotein Complex and Muscular Dystrophy **2012**, 935-942		2
24	Response to the letter: □On the localization of ClC-1 in skeletal muscle fibers□*Journal of General Physiology*, **2011**, 137, 331-333	3.4	2
23	Characterisation of antibody models of the ryanodine receptor for use in high-throughput screening□*Pest Management Science*, **1998**, 54, 345-352		2

22	A syntrophin gene maps to mouse chromosome 8 and is not the myodystrophy gene. *Mammalian Genome*, **1995**, 6, 664-5	3.2	2
21	A unique variant of lymphocytic choriomeningitis virus that induces pheromone binding protein MUP: Critical role for CTL. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18001-18008	11.5	2
20	Lassa Fever Virus Binds Matriglycan-A Polymer of Alternating Xylose and Glucuronate-On □Dystroglycan. *Viruses*, **2021**, 13,	6.2	2
19	Investigations of an inducible intact dystrophin gene excision system in cardiac and skeletal muscle in vivo. *Scientific Reports*, **2020**, 10, 10967	4.9	1
18	Molecular Pathways for Dilated Cardiomyopathy **2004**, 306-310		1
17	Muscular dystrophy-dystroglycanopathy in a family of Labrador retrievers with a LARGE1 mutation. *Neuromuscular Disorders*, **2021**,	2.9	1
16	Molecular basis of muscular dystrophies **2000**, 23, 1456		1
15	Intracellular accumulation and reduced sarcolemmal expression of dysferlin in limb□girdle muscular dystrophies **2000**, 48, 902		1
14	Skeletal muscle's 3rd year anniversary. *Skeletal Muscle*, **2014**, 4, 3	5.1	
13	□Dystroglycan can mediate arenavirus infection in the absence of □dystroglycan. *Virology*, **2003**, 316, 213-213	3.6	
12	Overlay and bead assay. Determination of calcium channel subunit interaction domains. *Methods in Molecular Biology*, **1998**, 88, 71-85	1.4	
11	Immunogold localization of adhalin, alpha-dystroglycan and laminin in normal and dystrophic skeletal muscle. *Biochemical Society Transactions*, **1996**, 24, 274S	5.1	
10	Monoclonal Antibody Characterization of the 1,4-Dihydropyridine Receptor of Rabbit Skeletal Muscle. *Annals of the New York Academy of Sciences*, **1988**, 522, 43-46	6.5	
9	Cav3.2 T-type Ca++ channels trigger the endothelium-dependent vasodilator signals activated by electrical stimulation.. *FASEB Journal*, **2006**, 20, A277	0.9	
8	Alpha-Dystroglycan Supports Platelet Aggregation and Thrombus Formation. *Blood*, **2019**, 134, 11-11	2.2	
7	Sarcolemmal-restricted localization of functional ClC-1 channels in mouse skeletal muscle. *Journal of Cell Biology*, **2010**, 191, i16-i16	7.3	
6	Rate of force recovery immediately following lengthening contractions for various mouse models of muscular dystrophy. *FASEB Journal*, **2012**, 26, 1141.6	0.9	
5	Contractile properties of mice deficient in dystrophin and the NADPH subunit p47phox. *FASEB Journal*, **2012**, 26, 1141.7	0.9	

4	Molecular Basis for Dystroglycan Binding to Laminin-G Domain-Containing Ligands. *FASEB Journal*, **2013**, 27, 85.1	0.9
3	Illuminating regeneration: noninvasive imaging of disease progression in muscular dystrophy. *Journal of Clinical Investigation*, **2013**, 123, 1931-4	15.9
2	Like-Glycosyltransferase; Glycosyltransferase-Like 1B (LARGE, GYLTL1B) **2014**, 1167-1179	
1	Dystroglycan: An Extracellular Matrix Receptor That Links to the Cytoskeleton **2014**, 1-7	