

# CITATION REPORT

List of articles citing

**Obscurin, a giant sarcomeric Rho guanine nucleotide exchange factor protein involved in sarcomere assembly**

**DOI: 10.1083/jcb.200102110**  
**Journal of Cell Biology, 2001, 154, 123-36.**

**Source:** <https://exaly.com/paper-pdf/33424040/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
247	The complete gene sequence of titin, expression of an unusual approximately 700-kDa titin isoform, and its interaction with obscurin identify a novel Z-line to I-band linking system. <b>2001</b> , 89, 1065-72		493
246	Fishing out proteins that bind to titin. <i>Journal of Cell Biology</i> , <b>2001</b> , 154, 21-4	7.3	35
245	Guanine nucleotide exchange factors for Rho GTPases: turning on the switch. <b>2002</b> , 16, 1587-609		938
244	Transient association of titin and myosin with microtubules in nascent myofibrils directed by the MURF2 RING-finger protein. <b>2002</b> , 115, 4469-82		121
243	Changes in titin isoform expression in pacing-induced cardiac failure give rise to increased passive muscle stiffness. <b>2002</b> , 106, 1384-9		135
242	Subcellular targeting of metabolic enzymes to titin in heart muscle may be mediated by DRAL/FHL-2. <b>2002</b> , 115, 4925-36		204
241	Very large G protein-coupled receptor-1, the largest known cell surface protein, is highly expressed in the developing central nervous system. <b>2002</b> , 277, 785-92		93
240	A mammalian Rho-specific guanine-nucleotide exchange factor (p164-RhoGEF) without a pleckstrin homology domain. <b>2002</b> , 366, 721-8		26
239	Striated muscle cytoarchitecture: an intricate web of form and function. <b>2002</b> , 18, 637-706		479
238	Calmodulin signaling via the IQ motif. <b>2002</b> , 513, 107-13		342
237	Interaction of nebulin SH3 domain with titin PEVK and myopalladin: implications for the signaling and assembly role of titin and nebulin. <b>2002</b> , 532, 273-8		55
236	Nebulin mutations in autosomal recessive nemaline myopathy: an update. <b>2002</b> , 12, 680-6		47
235	Identification, tissue expression and chromosomal localization of human Obscurin-MLCK, a member of the titin and Dbl families of myosin light chain kinases. <b>2002</b> , 282, 237-46		75
234	Amorphin is phosphorylase; phosphorylase is an alpha-actinin-binding protein. <b>2002</b> , 53, 125-35		32
233	Cardiac titin: an adjustable multi-functional spring. <b>2002</b> , 541, 335-42		179
232	Titin as a modular spring: emerging mechanisms for elasticity control by titin in cardiac physiology and pathophysiology. <b>2002</b> , 23, 457-71		21
231	M-band: a safeguard for sarcomere stability?. <b>2003</b> , 24, 191-203		67

230	The parathyroid hormone-responsive B1 gene is interrupted by a t(1;7)(q42;p15) breakpoint associated with Wilms tumour. <b>2003</b> , 22, 1371-80	27
229	Titin: properties and family relationships. <b>2003</b> , 4, 679-89	271
228	The muscle ankyrin repeat proteins: CARP, ankrd2/Arpp and DARP as a family of titin filament-based stress response molecules. <b>2003</b> , 333, 951-64	270
227	Myotoxic phospholipases A2 and the regeneration of skeletal muscles. <b>2003</b> , 42, 933-45	120
226	Rapid response of cardiac obscurin gene cluster to aortic stenosis: differential activation of Rho-GEF and MLCK and involvement in hypertrophic growth. <b>2003</b> , 310, 910-8	51
225	Membrane segregation and downregulation of raft markers during sarcolemmal differentiation in skeletal muscle cells. <b>2003</b> , 262, 324-34	24
224	The hydrophilic domain of small ankyrin-1 interacts with the two N-terminal immunoglobulin domains of titin. <b>2003</b> , 278, 3985-91	53
223	Obscurin is a ligand for small ankyrin 1 in skeletal muscle. <b>2003</b> , 14, 1138-48	151
222	A targeted deletion of the C-terminal end of titin, including the titin kinase domain, impairs myofibrillogenesis. <b>2003</b> , 116, 4811-9	44
221	Binding of an ankyrin-1 isoform to obscurin suggests a molecular link between the sarcoplasmic reticulum and myofibrils in striated muscles. <i>Journal of Cell Biology</i> , <b>2003</b> , 160, 245-53	73 154
220	Obscurin regulates the organization of myosin into A bands. <b>2004</b> , 287, C209-17	60
219	Sequential myofibrillar breakdown accompanies mitotic division of mammalian cardiomyocytes. <b>2004</b> , 117, 3295-306	115
218	At the crossroads of myocardial signaling: the role of Z-discs in intracellular signaling and cardiac function. <b>2004</b> , 94, 296-305	215
217	Dynamics of obscurin localization during differentiation and remodeling of cardiac myocytes: obscurin as an integrator of myofibrillar structure. <b>2004</b> , 52, 1117-27	44
216	Muscle-specific RING finger-2 (MURF-2) is important for microtubule, intermediate filament and sarcomeric M-line maintenance in striated muscle development. <b>2004</b> , 117, 3175-88	85
215	The N-terminus of the long MLCK induces a disruption in normal spindle morphology and metaphase arrest. <b>2004</b> , 117, 1481-93	26
214	Expression profiling and identification of novel genes involved in myogenic differentiation. <b>2004</b> , 18, 403-5	145
213	Developmentally regulated switching of titin size alters myofibrillar stiffness in the perinatal heart. <b>2004</b> , 94, 967-75	147

212	Passive stiffness changes caused by upregulation of compliant titin isoforms in human dilated cardiomyopathy hearts. <b>2004</b> , 95, 708-16	252
211	Molecular determinants of the structural and functional organization of the sarcoplasmic reticulum. <b>2004</b> , 1742, 113-8	14
210	Orthologous relationship of obscurin and Unc-89: phylogeny of a novel family of tandem myosin light chain kinases. <b>2004</b> , 214, 352-9	32
209	The giant protein titin: a major player in myocardial mechanics, signaling, and disease. <b>2004</b> , 94, 284-95	451
208	Three new isoforms of <i>Caenorhabditis elegans</i> UNC-89 containing MLCK-like protein kinase domains. <b>2004</b> , 342, 91-108	61
207	Myopathies resulting from mutations in sarcomeric proteins. <b>2004</b> , 17, 529-37	42
206	Passive stretch inhibits central corelike lesion formation in the soleus muscles of hindlimb-suspended unloaded rats. <b>2004</b> , 97, 930-4	22
205	When contractile proteins go bad: the sarcomere and skeletal muscle disease. <b>2005</b> , 27, 809-22	71
204	Titin: physiological function and role in cardiomyopathy and failure. <b>2005</b> , 10, 211-23	62
203	The unique stacked rings in the nucleocapsid of the white spot syndrome virus virion are formed by the major structural protein VP664, the largest viral structural protein ever found. <b>2005</b> , 79, 140-9	62
202	Isoform diversity of giant proteins in relation to passive and active contractile properties of rabbit skeletal muscles. <b>2005</b> , 126, 461-80	228
201	Assembly and signaling of adhesion complexes. <b>2005</b> , 68, 183-225	37
200	Titin and its associated proteins: the third myofilament system of the sarcomere. <b>2005</b> , 71, 89-119	64
199	Understanding muscle architectural adaptation: macro- and micro-level research. <b>2005</b> , 181, 1-10	51
198	Cardiac Hypertrophy: Molecular and Cellular Events. <b>2006</b> , 59, 473-486	10
197	Hipertrofia cardiaca: eventos moleculares y celulares. <b>2006</b> , 59, 473-486	58
196	Expression of distinct classes of titin isoforms in striated and smooth muscles by alternative splicing, and their conserved interaction with filamins. <b>2006</b> , 362, 664-81	70
195	The sarcomeric M-band during development and in disease. <b>2005</b> , 26, 375-9	26

194	Functional properties of the titin/connectin-associated proteins, the muscle-specific RING finger proteins (MURFs), in striated muscle. <b>2005</b> , 26, 389-400	40
193	Obscurin: a multitasking muscle giant. <b>2005</b> , 26, 419-26	42
192	Complete human gene structure of obscurin: implications for isoform generation by differential splicing. <b>2005</b> , 26, 427-34	57
191	Titin/connectin-related proteins in <i>C. elegans</i> : a review and new findings. <b>2005</b> , 26, 435-47	23
190	Plasticity of cardiac titin/connectin in heart development. <b>2005</b> , 26, 333-42	23
189	Essential role of obscurin in cardiac myofibrillogenesis and hypertrophic response: evidence from small interfering RNA-mediated gene silencing. <b>2006</b> , 125, 227-38	46
188	The parvins. <b>2006</b> , 63, 25-35	68
187	The sarcomeric Z-disc: a nodal point in signalling and disease. <b>2006</b> , 84, 446-68	180
186	Identification of Rho GTPases implicated in terminal differentiation of muscle cells in ascidia. <b>2006</b> , 98, 577-88	8
185	From A to Z and back? Multicompartment proteins in the sarcomere. <b>2006</b> , 16, 11-8	143
184	Obscurin is required for the lateral alignment of striated myofibrils in zebrafish. <b>2006</b> , 235, 2018-29	46
183	Targeted homozygous deletion of M-band titin in cardiomyocytes prevents sarcomere formation. <b>2006</b> , 119, 4322-31	66
182	De novo myofibrillogenesis in C2C12 cells: evidence for the independent assembly of M bands and Z disks. <b>2006</b> , 290, C626-37	38
181	Cardiac ankyrins: Essential components for development and maintenance of excitable membrane domains in heart. <b>2006</b> , 71, 22-9	46
180	Molecular evolution of ankyrin: gain of function in vertebrates by acquisition of an obscurin/titin-binding-related domain. <b>2006</b> , 23, 46-55	19
179	Focal adhesions: paradigm for a signaling nexus. <b>2006</b> , 98, 606-16	211
178	Obscurin modulates the assembly and organization of sarcomeres and the sarcoplasmic reticulum. <b>2006</b> , 20, 2102-11	82
177	Effects of BTS (N-benzyl-p-toluene sulphonamide), an inhibitor for myosin-actin interaction, on myofibrillogenesis in skeletal muscle cells in culture. <b>2006</b> , 23, 969-75	21

176	Titin as a giant scaffold for integrating stress and Src homology domain 3-mediated signaling pathways: the clustering of novel overlap ligand motifs in the elastic PEVK segment. <b>2006</b> , 281, 27539-56	27
175	The A-kinase anchoring protein (AKAP)-Lbc-signaling complex mediates alpha1 adrenergic receptor-induced cardiomyocyte hypertrophy. <b>2007</b> , 104, 10140-5	85
174	Sense and stretchability: the role of titin and titin-associated proteins in myocardial stress-sensing and mechanical dysfunction. <b>2008</b> , 77, 637-48	219
173	Assembly and maintenance of the sarcomere night and day. <b>2008</b> , 77, 667-75	52
172	Genomic landscapes of cancers: prospects for targeted therapies. <b>2007</b> , 8, 1629-33	10
171	Sel1 repeat protein LpnE is a Legionella pneumophila virulence determinant that influences vacuolar trafficking. <b>2007</b> , 75, 5575-85	71
170	Novel somatic and germline mutations in cancer candidate genes in glioblastoma, melanoma, and pancreatic carcinoma. <b>2007</b> , 67, 3545-50	136
169	Mapping the binding site on small ankyrin 1 for obscurin. <b>2007</b> , 282, 32384-96	38
168	Obscurin-like 1, OBSL1, is a novel cytoskeletal protein related to obscurin. <b>2007</b> , 89, 521-31	57
167	Structural analysis of obscurin gene in hypertrophic cardiomyopathy. <b>2007</b> , 362, 281-7	63
166	Cardiac titin: structure, functions and role in disease. <b>2007</b> , 375, 1-9	90
165	Modular proteins from the Drosophila sallimus (sls) gene and their expression in muscles with different extensibility. <b>2007</b> , 367, 953-69	71
164	Different obscurin isoforms localize to distinct sites at sarcomeres. <b>2007</b> , 581, 1549-54	45
163	Molecular identification and localization of cellular titin, a novel titin isoform in the fibroblast stress fiber. <b>2007</b> , 64, 418-33	15
162	Broad spectrum identification of SUMO substrates in melanoma cells. <b>2007</b> , 7, 2216-21	32
161	Structure and functions of titin, a giant protein of skeletal and cardiac muscle: Evidence and suppositions. <b>2007</b> , 52, 557-566	
160	Raver1 is an integral component of muscle contractile elements. <b>2007</b> , 327, 583-94	16
159	Nuclear localization of Myomesin-1: possible functions. <b>2008</b> , 29, 1-8	9

158	Early incorporation of obscurin into nascent sarcomeres: implication for myofibril assembly during cardiac myogenesis. <b>2008</b> , 129, 463-78	22
157	New aspects of obscurin in human striated muscles. <b>2008</b> , 130, 91-103	33
156	Developmental expression and differential cellular localization of obscurin and obscurin-associated kinase in cardiac muscle cells. <b>2008</b> , 103, 1621-35	24
155	Krp1 (Sarcosin) promotes lateral fusion of myofibril assembly intermediates in cultured mouse cardiomyocytes. <b>2008</b> , 314, 1177-91	29
154	The DH-PH region of the giant protein UNC-89 activates RHO-1 GTPase in <i>Caenorhabditis elegans</i> body wall muscle. <b>2008</b> , 383, 747-52	33
153	Small GTP-binding proteins and their regulators in cardiac hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2008</b> , 44, 623-32	5.8 68
152	Interactions with titin and myomesin target obscurin and obscurin-like 1 to the M-band: implications for hereditary myopathies. <b>2008</b> , 121, 1841-51	139
151	A novel protein phosphatase is a binding partner for the protein kinase domains of UNC-89 (Obscurin) in <i>Caenorhabditis elegans</i> . <b>2008</b> , 19, 2424-32	43
150	The rho-guanine nucleotide exchange factor domain of obscurin regulates assembly of titin at the Z-disk through interactions with Ran binding protein 9. <b>2008</b> , 19, 3782-92	45
149	Obscurin targets ankyrin-B and protein phosphatase 2A to the cardiac M-line. <b>2008</b> , 283, 31968-80	61
148	Molecular etiology and pathogenesis of hereditary cardiomyopathy. <b>2008</b> , 72 Suppl A, A38-48	51
147	Hypertrophic cardiomyopathy: etiology, diagnosis, and treatment. <b>2008</b> , 16, 172-80	26
146	Muscle giants: molecular scaffolds in sarcomerogenesis. <b>2009</b> , 89, 1217-67	177
145	Assembly and dynamics of proteins of the longitudinal and junctional sarcoplasmic reticulum in skeletal muscle cells. <b>2009</b> , 106, 4695-700	26
144	Defining elastic fiber interactions by molecular fishing: an affinity purification and mass spectrometry approach. <b>2009</b> , 8, 2715-32	24
143	Gene expression and muscle fiber function in a porcine ICU model. <b>2009</b> , 39, 141-59	40
142	Bin1 SRC homology 3 domain acts as a scaffold for myofiber sarcomere assembly. <b>2009</b> , 284, 27674-86	24
141	Obscurin determines the architecture of the longitudinal sarcoplasmic reticulum. <b>2009</b> , 122, 2640-50	91

140	TC10 controls human myofibril organization and is activated by the sarcomeric RhoGEF obscurin. <b>2009</b> , 122, 947-56		17
139	The rho-guanine nucleotide exchange factor domain of obscurin activates rhoA signaling in skeletal muscle. <b>2009</b> , 20, 3905-17		40
138	Obscurin interacts with a novel isoform of MyBP-C slow at the periphery of the sarcomeric M-band and regulates thick filament assembly. <b>2009</b> , 20, 2963-78		47
137	Ankyrin protein networks in membrane formation and stabilization. <b>2009</b> , 13, 4364-76		68
136	Interactions with LC3 and polyubiquitin chains link nbr1 to autophagic protein turnover. <b>2009</b> , 583, 1846-52		71
135	Cytoplasmic Ig-domain proteins: cytoskeletal regulators with a role in human disease. <b>2009</b> , 66, 618-34		36
134	Localization of ank1.5 in the sarcoplasmic reticulum precedes that of SERCA and RyR: relationship with the organization of obscurin in developing sarcomeres. <b>2009</b> , 131, 371-82		16
133	RhoA leads to up-regulation and relocalization of utrophin in muscle fibers. <b>2009</b> , 384, 322-8		8
132	Titin-based mechanical signalling in normal and failing myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2009</b> , 46, 490-8	5.8	132
131	A LIM-9 (FHL)/SCPL-1 (SCP) complex interacts with the C-terminal protein kinase regions of UNC-89 (obscurin) in <i>Caenorhabditis elegans</i> muscle. <b>2009</b> , 386, 976-88		30
130	Molecular basis of the head-to-tail assembly of giant muscle proteins obscurin-like 1 and titin. <b>2010</b> , 11, 534-40		22
129	Ubiquitin fragments: their known biological activities and putative roles. <b>2010</b> , 1, 67-83		4
128	Cardiac titin: a multifunctional giant. <b>2010</b> , 121, 2137-45		165
127	Structural insight into M-band assembly and mechanics from the titin-obscurin-like-1 complex. <b>2010</b> , 107, 2908-13		56
126	Molecular structure of sarcomere-to-membrane attachment at M-Lines in <i>C. elegans</i> muscle. <b>2010</b> , 2010, 864749		25
125	Molecular basis of hereditary cardiomyopathy: abnormalities in calcium sensitivity, stretch response, stress response and beyond. <b>2010</b> , 55, 81-90		60
124	Characterization and comparison of two binding sites on obscurin for small ankyrin 1. <b>2010</b> , 49, 9948-56		11
123	Targeted deletion of the zebrafish obscurin A RhoGEF domain affects heart, skeletal muscle and brain development. <b>2010</b> , 337, 432-43		22



122	Muscle Biophysics. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> ,	3.6	7
121	Mechanosensitivity of the Heart. <b>2010</b> ,		3
120	Sarcoplasmic reticulum: structural determinants and protein dynamics. <b>2011</b> , 43, 1075-8		19
119	Electrostatic interactions mediate binding of obscurin to small ankyrin 1: biochemical and molecular modeling studies. <b>2011</b> , 408, 321-34		14
118	The sarcomeric cytoskeleton: who picks up the strain?. <b>2011</b> , 23, 39-46		137
117	Fiber types in mammalian skeletal muscles. <b>2011</b> , 91, 1447-531		1490
116	Cytoskeletal protein kinases: titin and its relations in mechanosensing. <b>2011</b> , 462, 119-34		98
115	<i>Caenorhabditis elegans</i> muscle: a genetic and molecular model for protein interactions in the heart. <b>2011</b> , 109, 1082-95		25
114	Obscurin depletion impairs organization of skeletal muscle in developing zebrafish embryos. <b>2011</b> , 2011, 479135		29
113	Hydrophobic residues in small ankyrin 1 participate in binding to obscurin. <b>2012</b> , 29, 36-51		6
112	Obscurin and KCTD6 regulate cullin-dependent small ankyrin-1 (sAnk1.5) protein turnover. <b>2012</b> , 23, 2490-504		52
111	A promoter DNA demethylation landscape of human hematopoietic differentiation. <b>2012</b> , 40, 116-31		86
110	UNC-89 (obscurin) binds to MEL-26, a BTB-domain protein, and affects the function of MEI-1 (katanin) in striated muscle of <i>Caenorhabditis elegans</i> . <b>2012</b> , 23, 2623-34		31
109	Loss of giant obscurins promotes breast epithelial cell survival through apoptotic resistance. <b>2012</b> , 26, 2764-75		25
108	The function of the M-line protein obscurin in controlling the symmetry of the sarcomere in the flight muscle of <i>Drosophila</i> . <b>2012</b> , 125, 3367-79		46
107	Genomic- and protein-based approaches for connectin (titin) identification in the ascidian <i>Ciona intestinalis</i> . <b>2012</b> , 56, 18-24		7
106	Whole transcriptome analyses of six thoroughbred horses before and after exercise using RNA-Seq. <b>2012</b> , 13, 473		56
105	The sarcomeric cytoskeleton as a target for pharmacological intervention. <b>2012</b> , 12, 347-54		23

104	Paradigm shifts in cardiovascular research from <i>Caenorhabditis elegans</i> muscle. <b>2012</b> , 22, 201-9		8
103	Titin-based tension in the cardiac sarcomere: molecular origin and physiological adaptations. <b>2012</b> , 110, 204-17		57
102	Obscurins: unassuming giants enter the spotlight. <b>2013</b> , 65, 479-86		27
101	Obscurin is required for ankyrinB-dependent dystrophin localization and sarcolemma integrity. <i>Journal of Cell Biology</i> , <b>2013</b> , 200, 523-36	7-3	40
100	Structural and functional diversity in the activity and regulation of DAPK-related protein kinases. <b>2013</b> , 280, 5533-50		26
99	Structure of giant muscle proteins. <b>2013</b> , 4, 368		34
98	Early de novo DNA methylation and prolonged demethylation in the muscle lineage. <b>2013</b> , 8, 317-32		63
97	CPNA-1, a copine domain protein, is located at integrin adhesion sites and is required for myofilament stability in <i>Caenorhabditis elegans</i> . <b>2013</b> , 24, 601-16		27
96	Obscurins: Goliaths and Davids take over non-muscle tissues. <i>PLoS ONE</i> , <b>2014</b> , 9, e88162	3-7	30
95	Cardiac phosphoproteomics during remote ischemic preconditioning: a role for the sarcomeric Z-disk proteins. <b>2014</b> , 2014, 767812		20
94	A rising titan: TTN review and mutation update. <b>2014</b> , 35, 1046-59		135
93	Esynemin localizes to the M-band of the sarcomere through interaction with the M10 region of titin. <b>2014</b> , 588, 4625-30		10
92	Gigantic business: titin properties and function through thick and thin. <b>2014</b> , 114, 1052-68		218
91	RNA-Seq in <i>Mytilus galloprovincialis</i> : comparative transcriptomics and expression profiles among different tissues. <b>2015</b> , 16, 728		70
90	Exome sequencing in seven families and gene-based association studies indicate genetic heterogeneity and suggest possible candidates for fibromuscular dysplasia. <b>2015</b> , 33, 1802-10; discussion 1810		24
89	Titin and obscurin: giants holding hands and discovery of a new Ig domain subset. <b>2015</b> , 427, 707-714		13
88	Cardiac Cytoarchitecture. <b>2015</b> ,		3
87	In-depth characterisation of the lamb meat proteome from <i>longissimus lumborum</i> . <b>2015</b> , 6, 28-41		14

86	Biophysical characterization of naturally occurring titin M10 mutations. <b>2015</b> , 24, 946-55	16
85	Binding partners of the kinase domains in <i>Drosophila</i> obscurin and their effect on the structure of the flight muscle. <b>2015</b> , 128, 3386-97	17
84	Organization of junctional sarcoplasmic reticulum proteins in skeletal muscle fibers. <b>2015</b> , 36, 501-15	29
83	The crystal structure of the human titin:obscurin complex reveals a conserved yet specific muscle M-band zipper module. <b>2015</b> , 427, 718-736	16
82	Deletion of small ankyrin 1 (sAnk1) isoforms results in structural and functional alterations in aging skeletal muscle fibers. <b>2015</b> , 308, C123-38	17
81	Regulation of NADPH oxidases in skeletal muscle. <b>2016</b> , 98, 18-28	69
80	Identification of novel antigens contributing to autoimmunity in cardiovascular diseases. <b>2016</b> , 173, 64-75	9
79	An eccentric calpain, CAPN3/p94/calpain-3. <b>2016</b> , 122, 169-87	58
78	The sarcomeric cytoskeleton: from molecules to motion. <b>2016</b> , 219, 135-45	124
77	Chemical shift assignments for the Ig2 domain of human obscurin A. <b>2016</b> , 10, 63-5	3
76	Whole-genome sequence analyses of Western Central African Pygmy hunter-gatherers reveal a complex demographic history and identify candidate genes under positive natural selection. <b>2016</b> , 26, 279-90	44
75	Molecular genetics and pathogenesis of cardiomyopathy. <b>2016</b> , 61, 41-50	69
74	Exercise-induced alterations and loss of sarcomeric M-line organization in the diaphragm muscle of obscurin knockout mice. <b>2017</b> , 312, C16-C28	16
73	Novex-3, the tiny titin of muscle. <i>Biophysical Reviews</i> , <b>2017</b> , 9, 201-206	3-7 7
72	Overview of the Muscle Cytoskeleton. <b>2017</b> , 7, 891-944	97
71	Obscure functions: the location-function relationship of obscurins. <i>Biophysical Reviews</i> , <b>2017</b> , 9, 245-258 <sub>3,7</sub>	10
70	Muscle structure, sarcomere length and influences on meat quality: A review. <b>2017</b> , 132, 139-152	114
69	Binding of Myomesin to Obscurin-Like-1 at the Muscle M-Band Provides a Strategy for Isoform-Specific Mechanical Protection. <b>2017</b> , 25, 107-120	17

68	Clinical genetics and outcome of left ventricular non-compaction cardiomyopathy. <b>2017</b> , 38, 3449-3460	102
67	Myofilaments: Movers and Rulers of the Sarcomere. <b>2017</b> , 7, 675-692	19
66	Evidence for genetic association between chromosome 1q loci and predisposition to colorectal neoplasia. <b>2017</b> , 117, 1215-1223	8
65	The potential of obscurin as a therapeutic target in muscle disorders. <b>2017</b> , 21, 897-910	9
64	When signalling goes wrong: pathogenic variants in structural and signalling proteins causing cardiomyopathies. <b>2017</b> , 38, 303-316	9
63	An historical perspective of the discovery of titin filaments. <i>Biophysical Reviews</i> , <b>2017</b> , 9, 179-188	3-7 11
62	Alternative polyadenylation drives genome-to-phenome information detours in the AMPK $\alpha$ and AMPK $\beta$ knockout mice. <b>2018</b> , 8, 6462	7
61	Ordering of myosin II filaments driven by mechanical forces: experiments and theory. <b>2018</b> , 373,	35
60	Deep sequencing of a QTL-rich region spanning 128-136Mbp of pig chromosome 15. <b>2018</b> , 647, 268-275	3
59	Thick Filament Protein Network, Functions, and Disease Association. <b>2018</b> , 8, 631-709	32
58	What makes skeletal muscle striated? Discoveries in the endosarcomeric and exosarcomeric cytoskeleton. <b>2018</b> , 42, 672-684	7
57	Structures of insect Imp-L2 suggest an alternative strategy for regulating the bioavailability of insulin-like hormones. <b>2018</b> , 9, 3860	7
56	Variation at the TRIM11 locus modifies progressive supranuclear palsy phenotype. <b>2018</b> , 84, 485-496	28
55	FineMAV: prioritizing candidate genetic variants driving local adaptations in human populations. <b>2018</b> , 19, 5	14
54	Unraveling obscurins in heart disease. <b>2019</b> , 471, 735-743	12
53	Murine obscurin and Obsl1 have functionally redundant roles in sarcolemmal integrity, sarcoplasmic reticulum organization, and muscle metabolism. <b>2019</b> , 2, 178	6
52	Two pools of IRE1 $\beta$ in cardiac and skeletal muscle cells. <b>2019</b> , 33, 8892-8904	15
51	Obscurin is a semi-flexible molecule in solution. <b>2019</b> , 28, 717-726	3

50	The M-band: The underestimated part of the sarcomere. <b>2020</b> , 1867, 118440		32
49	A Region of UNC-89 (Obscurin) Lying between Two Protein Kinase Domains Is a Highly Elastic Spring Required for Proper Sarcomere Organization. <b>2020</b> , 432, 4799-4814		5
48	Cofilin Loss in Drosophila Muscles Contributes to Muscle Weakness through Defective Sarcomerogenesis during Muscle Growth. <b>2020</b> , 32, 107893		9
47	Deletion of obscurin immunoglobulin domains Ig58/59 leads to age-dependent cardiac remodeling and arrhythmia. <i>Basic Research in Cardiology</i> , <b>2020</b> , 115, 60	11.8	9
46	High-throughput proteomics fiber typing (ProFIT) for comprehensive characterization of single skeletal muscle fibers. <i>Skeletal Muscle</i> , <b>2020</b> , 10, 7	5.1	9
45	Double the trouble: giant proteins with dual kinase activity in the heart. <i>Biophysical Reviews</i> , <b>2020</b> , 12, 1019-1029	3.7	3
44	Identification and characterization of self-association domains on small ankyrin 1 isoforms. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2020</b> , 139, 225-237	5.8	0
43	When is an obscurin variant pathogenic? The impact of Arg4344Gln and Arg4444Trp variants on protein-protein interactions and protein stability. <i>Human Molecular Genetics</i> , <b>2021</b> , 30, 1131-1141	5.6	2
42	Exploring Obscurin and SPEG Kinase Biology. <i>Journal of Clinical Medicine</i> , <b>2021</b> , 10,	5.1	2
41	Obscurin: A multitasking giant in the fight against cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , <b>2021</b> , 1876, 188567	11.2	2
40	Making sense of missense variants in TTN-related congenital myopathies. <i>Acta Neuropathologica</i> , <b>2021</b> , 141, 431-453	14.3	6
39	The sarcomere and sarcomerogenesis. <i>Advances in Experimental Medicine and Biology</i> , <b>2008</b> , 642, 1-14	3.6	71
38	Role of titin in skeletal muscle function and disease. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> , 682, 105-22	3.6	26
37	The M-Band: Not Just Inert Glue but Playing an Active Role in the Middle of the Sarcomere. <b>2015</b> , 125-140		1
36	Literature Review. <b>2018</b> , 5-129		1
35	Titin and Titin-Associated Proteins in Myocardial Stress-Sensing and Mechanical Dysfunction. <b>2009</b> , 3-34		1
34	Titin as a modular spring: emerging mechanisms for elasticity control by titin in cardiac physiology and pathophysiology. <b>2003</b> , 457-471		2
33	Nanoscopy reveals the layered organization of the sarcomeric H-zone and I-band complexes. <i>Journal of Cell Biology</i> , <b>2020</b> , 219,	7.3	17

32	A Region of UNC-89 (obscurin) Lying Between Two Protein Kinase Domains is a Highly Elastic Spring Required for Proper Sarcomere Assembly.		1
31	Large isoforms of UNC-89 (obscurin) are required for muscle cell architecture and optimal calcium release in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , <b>2012</b> , 7, e40182	3.7	28
30	A novel FLNC frameshift and an OBSCN variant in a family with distal muscular dystrophy. <i>PLoS ONE</i> , <b>2017</b> , 12, e0186642	3.7	20
29	Loss of giant obscurins alters breast epithelial cell mechanosensing of matrix stiffness. <i>Oncotarget</i> , <b>2017</b> , 8, 54004-54020	3.3	14
28	A comprehensive genomic meta-analysis identifies confirmatory role of gene in breast tumorigenesis. <i>Oncotarget</i> , <b>2017</b> , 8, 102263-102276	3.3	13
27	Loss of the obscurin-RhoGEF downregulates RhoA signaling and increases microtentacle formation and attachment of breast epithelial cells. <i>Oncotarget</i> , <b>2014</b> , 5, 8558-68	3.3	21
26	Truncating Variants in Gene Associated With Disease-Onset and Outcomes of Hypertrophic Cardiomyopathy. <i>Circulation Genomic and Precision Medicine</i> , <b>2021</b> , 14, e003401	5.2	0
25	Scaffolding proteins in cardiac myocytes. <i>Handbook of Experimental Pharmacology</i> , <b>2008</b> , 301-25	3.2	1
24	In silico structural and functional analysis of human calcium binding protein-5 (CaBP5). <i>International Journal of Pharma and Bio Sciences</i> , <b>2017</b> , 8,	1.2	
23	Variation at the TRIM11 locus modifies Progressive Supranuclear Palsy phenotype.		
22	Rho GTPases in Skeletal Muscle Development and Homeostasis. <i>Cells</i> , <b>2021</b> , 10,	7.9	1
21	Molecular etiology of idiopathic cardiomyopathy. <i>Acta Myologica</i> , <b>2007</b> , 26, 153-8	1.6	8
20	Giant obscurin regulates migration and metastasis via RhoA-dependent cytoskeletal remodeling in pancreatic cancer. <i>Cancer Letters</i> , <b>2021</b> , 526, 155-167	9.9	1
19	Understanding the Molecular Basis of Cardiomyopathy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2021</b> ,	5.2	1
18	Impaired Intracellular Ca Dynamics, M-Band and Sarcomere Fragility in Skeletal Muscles of Obscurin KO Mice.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	0
17	The role of the M-band myomesin proteins in muscle integrity and cardiac disease.. <i>Journal of Biomedical Science</i> , <b>2022</b> , 29, 18	13.3	1
16	Obscurin regulates ankyrin macromolecular complex formation.. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2022</b> ,	5.8	0
15	Pairwise sequence similarity mapping with PaSiMap: reclassification of immunoglobulin domains from titin as case study.		

14	Multi-omics analysis of sarcospan overexpression in mdx skeletal muscle reveals compensatory remodeling of cytoskeleton-matrix interactions that promote mechanotransduction pathways.	
13	Combined loss of obscurin and obscurin-like 1 in murine hearts results in impaired diastolic dysfunction, altered metabolism and deregulated mitophagy.	
12	Pairwise sequence similarity mapping with PaSiMap: Reclassification of immunoglobulin domains from titin as case study. <b>2022</b> , 20, 5409-5419	1
11	Target formation in muscle fibres indicates reinnervation in a proteomic study in muscle samples from peripheral neuropathies.	1
10	Differential Expression of Titin and Obscurin mRNA in Striated Muscles of the Long-Tailed Ground Squirrel <i>Urocyonotus undulatus</i> . <b>2022</b> , 58, 1332-1340	0
9	Obscurin Rho GEF domains are phosphorylated by MST-family kinases but do not exhibit nucleotide exchange factor activity towards Rho GTPases in vitro.	0
8	Identification of an ergosterol derivative with anti-melanoma effect from the sponge-derived fungus <i>Pestalotiopsis</i> sp. XWS03F09. 13,	0
7	The N-terminus of obscurin is flexible in solution.	0
6	Comprehensive Genetic Exploration of Fused Teeth by Whole Exome Sequencing. <b>2022</b> , 12, 11899	0
5	Multi-omics analysis of sarcospan overexpression in mdx skeletal muscle reveals compensatory remodeling of cytoskeleton-matrix interactions that promote mechanotransduction pathways. <b>2023</b> , 13,	1
4	Myofilament-associated proteins with intrinsic disorder (MAPIDs) and their resolution by computational modeling. 1-79	0
3	Structural and signaling proteins in the Z-disk and their role in cardiomyopathies. 14,	0
2	Alterations in cytoskeletal and Ca <sup>2+</sup> cycling regulators in atria lacking the obscurin Ig58/59 module. 10,	0
1	Obscurin Rho GEF domains are phosphorylated by MST-family kinases but do not exhibit nucleotide exchange factor activity towards Rho GTPases in vitro. <b>2023</b> , 18, e0284453	0