Dieter O FÃ¼rst

List of Publications by Year
in descending order

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123 papers	7,716 citations	47 h-index	84 g-index
		47006	54911
126 all docs	126 docs citations	126 times ranked	9093 citing authors

#	Article	IF	Citations
1	Chaperone-Assisted Selective Autophagy Is Essential for Muscle Maintenance. Current Biology, 2010, 20, 143-148.	3.9	513
2	Structural basis for activation of the titin kinase domain during myofibrillogenesis. Nature, 1998, 395, 863-869.	27.8	333
3	Myogenesis in the mouse embryo: differential onset of expression of myogenic proteins and the involvement of titin in myofibril assembly.. Journal of Cell Biology, 1989, 109, 517-527.	5.2	281
4	A Mutation in the Dimerization Domain of Filamin C Causes a Novel Type of Autosomal Dominant Myofibrillar Myopathy. American Journal of Human Genetics, 2005, 77, 297-304.	6.2	268
5	Cellular Mechanotransduction Relies on Tension-Induced and Chaperone-Assisted Autophagy. Current Biology, 2013, 23, 430-435.	3.9	246
6	Mutations in the Human Muscle LIM Protein Gene in Families With Hypertrophic Cardiomyopathy. Circulation, 2003, 107, 1390-1395.	1.6	234
7	Molecular structure of the sarcomeric M band: mapping of titin and myosin binding domains in myomesin and the identification of a potential regulatory phosphorylation site in myomesin. EMBO Journal, 1997, 16, 211-220.	7.8	215
8	The structure of the sarcomeric M band: localization of defined domains of myomesin, M-protein, and the 250-kD carboxy-terminal region of titin by immunoelectron microscopy.. Journal of Cell Biology, 1996, 134, 1441-1453.	5.2	199
9	Indications for a Novel Muscular Dystrophy Pathway. Journal of Cell Biology, 2000, 151, 235-248.	5.2	172
10	Localization of filamin in smooth muscle.. Journal of Cell Biology, 1986, 102, 210-220.	5.2	167
11	Visualization of the polarity of isolated titin molecules: a single globular head on a long thin rod as the M band anchoring domain?. Journal of Cell Biology, 1989, 109, 2177-2187.	5.2	159
12	Two immunoglobulinâ€like domains of the Zâ€disc portion of titin interact in a conformationâ€dependent way with telethonin. FEBS Letters, 1998, 428, 111-114.	2.8	144
13	Myotilin, the limb-girdle muscular dystrophy 1A (LGMD1A) protein, cross-links actin filaments and controls sarcomere assembly. Human Molecular Genetics, 2003, 12, 189-203.	2.9	142
14	Beyond the sarcomere: CSRP3 mutations cause hypertrophic cardiomyopathy. Human Molecular Genetics, 2008, 17, 2753-2765.	2.9	142
15	Characterization of muscle filamin isoforms suggests a possible role of ?-filamin/ABP-L in sarcomeric Z-disc formation. Cytoskeleton, 2000, 45, 149-162.	4.4	141
16	The cytoskeletal lattice of muscle cells. FEBS Journal, 1992, 208, 559-572.	0.2	140
17	The spectrum of pathology in central core disease. Neuromuscular Disorders, 2002, 12, 930-938.	0.6	132
18	Clinical and morphological phenotype of the filamin myopathy: a study of 31 German patients. Brain, 2007, 130, 3250-3264.	7.6	132

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19	Transient association of titin and myosin with microtubules in nascent myofibrils directed by the MURF2 RING-finger protein. Journal of Cell Science, 2002, 115, 4469-4482.	2.0	131
20	Mutations in the N-terminal Actin-Binding Domain of Filamin C Cause a Distal Myopathy. American Journal of Human Genetics, 2011, 88, 729-740.	6.2	124
21	The mode of myofibril remodelling in human skeletal muscle affected by DOMS induced by eccentric contractions. Histochemistry and Cell Biology, 2003, 119, 383-393.	1.7	119
22	Angiotensin-II type 1 receptor-mediated Janus kinase 2 activation induces liver fibrosis. Hepatology, 2014, 60, 334-348.	7.3	107
23	Filamin C-related myopathies: pathology and mechanisms. Acta Neuropathologica, 2013, 125, 33-46.	7.7	106
24	Disorganization of the Desmin Cytoskeleton and Mitochondrial Dysfunction in Plectin-Related Epidermolysis Bullosa Simplex with Muscular Dystrophy. Journal of Neuropathology and Experimental Neurology, 2002, 61, 520-530.	1.7	96
25	Atorvastatin inhibits proliferation and apoptosis, but induces senescence in hepatic myofibroblasts and thereby attenuates hepatic fibrosis in rats. Laboratory Investigation, 2012, 92, 1440-1450.	3.7	94
26	On noxious desmin: functional effects of a novel heterozygous desmin insertion mutation on the extrasarcomeric desmin cytoskeleton and mitochondria. Human Molecular Genetics, 2003, 12, 657-669.	2.9	91
27	Muscle-type Creatine Kinase Interacts with Central Domains of the M-band Proteins Myomesin and M-protein. Journal of Molecular Biology, 2003, 332, 877-887.	4.2	88
28	Unusual splicing events result in distinct Xin isoforms that associate differentially with filamin c and Mena/VASP. Experimental Cell Research, 2006, 312, 2154-2167.	2.6	85
29	Xin repeats define a novel actin-binding motif. Journal of Cell Science, 2004, 117, 5257-5268.	2.0	83
30	Modulation of sarcomere organization during embryonic stem cell-derived cardiomyocyte differentiation. European Journal of Cell Biology, 1999, 78, 813-823.	3.6	80
31	Mapping of a Myosin-binding Domain and a Regulatory Phosphorylation Site in M-Protein, a Structural Protein of the Sarcomeric M Band. Molecular Biology of the Cell, 1998, 9, 829-840.	2.1	74
32	A Combined Laser Microdissection and Mass Spectrometry Approach Reveals New Disease Relevant Proteins Accumulating in Aggregates of Filaminopathy Patients. Molecular and Cellular Proteomics, 2013, 12, 215-227.	3.8	74
33	Pathophysiology of protein aggregation and extended phenotyping in filaminopathy. Brain, 2012, 135, 2642-2660.	7.6	70
34	Dimerisation of Myomesin: Implications for the Structure of the Sarcomeric M-band. Journal of Molecular Biology, 2005, 345, 289-298.	4.2	69
35	Interaction of Î±-actinin and nebulin in vitro. FEBS Letters, 1990, 269, 163-166.	2.8	67
36	Differential involvement of sarcomeric proteins in myofibrillar myopathies: a morphological and immunohistochemical study. Acta Neuropathologica, 2009, 117, 293-307.	7.7	67

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37	The Limits of Promiscuity:Â Isoform-Specific Dimerization of Filaminsâ€. Biochemistry, 2003, 42, 430-439.	2.5	64
38	Differential proteomic analysis of abnormal intramyoplasmic aggregates in desminopathy. Journal of Proteomics, 2013, 90, 14-27.	2.4	63
39	Immunogold EM reveals a close association of plectin and the desmin cytoskeleton in human skeletal muscle. European Journal of Cell Biology, 1999, 78, 288-295.	3.6	62
40	The sarcomeric Z-disc component myopodin is a multiadapter protein that interacts with filamin and Î±-actinin. European Journal of Cell Biology, 2010, 89, 681-692.	3.6	62
41	The anatomy of a molecular giant: How the sarcomere cytoskeleton is assembled from immunoglobulin superfamily molecules. Journal of Molecular and Cellular Cardiology, 1995, 27, 951-959.	1.9	60
42	Thick filament assembly occurs after the formation of a cytoskeletal scaffold. Journal of Muscle Research and Cell Motility, 1999, 20, 569-579.	2.0	59
43	Filamin C is a highly dynamic protein associated with fast repair of myofibrillar microdamage. Human Molecular Genetics, 2016, 25, ddw135.	2.9	58
44	Decreased interactions of mutant muscle LIM protein (MLP) with N-RAP and Î±-actinin and their implication for hypertrophic cardiomyopathy. Cell and Tissue Research, 2004, 317, 129-136.	2.9	56
45	Filamin C accumulation is a strong but nonspecific immunohistochemical marker of core formation in muscle. Journal of the Neurological Sciences, 2003, 206, 71-78.	0.6	54
46	Severe protein aggregate myopathy in a knockout mouse model points to an essential role of cofilin2 in sarcomeric actin exchange and muscle maintenance. European Journal of Cell Biology, 2014, 93, 252-266.	3.6	52
47	HspB1 phosphorylation regulates its intramolecular dynamics and mechanosensitive molecular chaperone interaction with filamin C. Science Advances, 2019, 5, eaav8421.	10.3	52
48	Aciculin interacts with filamin C and Xin and is essential for myofibril assembly, remodeling and maintenance. Journal of Cell Science, 2014, 127, 3578-92.	2.0	51
49	New cardiac and skeletal protein aggregate myopathy associated with combined MuRF1 and MuRF3 mutations. Human Molecular Genetics, 2015, 24, 3638-3650.	2.9	51
50	Distal myopathy with upper limb predominance caused by filamin C haploinsufficiency. Neurology, 2011, 77, 2105-2114.	1.1	50
51	Myofibrillar instability exacerbated by acute exercise in filaminopathy. Human Molecular Genetics, 2015, 24, 7207-7220.	2.9	50
52	New insights into the protein aggregation pathology in myotilinopathy by combined proteomic and immunolocalization analyses. Acta Neuropathologica Communications, 2016, 4, 8.	5.2	50
53	The pathomechanism of filaminopathy: altered biochemical properties explain the cellular phenotype of a protein aggregation myopathy. Human Molecular Genetics, 2007, 16, 1351-1358.	2.9	49
54	The cochaperone BAG3 coordinates protein synthesis and autophagy under mechanical strain through spatial regulation of mTORC1. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 62-75.	4.1	49

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55	Purification and Biochemical Characterization of Myomesin, a Myosin-Binding and Titin-Binding Protein, from Bovine Skeletal Muscle. FEBS Journal, 1995, 233, 110-115.	0.2	47
56	Assembly of Titin, Myomesin and M-protein into the Sarcomeric M band in Differentiating Human Skeletal Muscle Cells in vitro.. Cell Structure and Function, 1997, 22, 163-171.	1.1	46
57	Metavinculin and vinculin from mammalian smooth muscle: Bulk isolation and characterization. Journal of Muscle Research and Cell Motility, 1987, 8, 329-341.	2.0	45
58	Statins activate the canonical hedgehog-signaling and aggravate non-cirrhotic portal hypertension, but inhibit the non-canonical hedgehog signaling and cirrhotic portal hypertension. Scientific Reports, 2015, 5, 14573.	3.3	45
59	M Band Proteins Myomesin and Skelemin Are Encoded by the Same Gene: Analysis of Its Organization and Expression. Genomics, 1999, 56, 78-89.	2.9	42
60	Association of Plectin with Z-Discs Is a Prerequisite for the Formation of the Intermyofibrillar Desmin Cytoskeleton. Laboratory Investigation, 2000, 80, 455-464.	3.7	42
61	Lysophosphatidylcholine Pretreatment Reduces VLA-4 and P-Selectinâ€“Mediated B16.F10 Melanoma Cell Adhesion In vitro and Inhibits Metastasis-Like Lung Invasion In vivo. Molecular Cancer Therapeutics, 2011, 10, 186-197.	4.1	41
62	Breaking sarcomeres by in vitro exercise. Scientific Reports, 2016, 6, 19614.	3.3	40
63	Translocation of molecular chaperones to the titin springs is common in skeletal myopathy patients and affects sarcomere function. Acta Neuropathologica Communications, 2017, 5, 72.	5.2	39
64	Complete loss of murine Xin results in a mild cardiac phenotype with altered distribution of intercalated discs. Cardiovascular Research, 2010, 85, 739-750.	3.8	37
65	Inhibition of leukotriene C4 action reduces oxidative stress and apoptosis in cardiomyocytes and impedes remodeling after myocardial injury. Journal of Molecular and Cellular Cardiology, 2011, 50, 570-577.	1.9	36
66	Xirp Proteins Mark Injured Skeletal Muscle in Zebrafish. PLoS ONE, 2012, 7, e31041.	2.5	36
67	Myofibrillar Z-discs Are a Protein Phosphorylation Hot Spot with Protein Kinase C (PKCÎ±) Modulating Protein Dynamics. Molecular and Cellular Proteomics, 2017, 16, 346-367.	3.8	36
68	Paxillin and Ponsin Interact in Nascent Costameres of Muscle Cells. Journal of Molecular Biology, 2007, 369, 665-682.	4.2	35
69	Xin Is a Marker of Skeletal Muscle Damage Severity in Myopathies. American Journal of Pathology, 2013, 183, 1703-1709.	3.8	35
70	Identification of Xin-repeat proteins as novel ligands of the SH3 domains of nebulin and nebulette and analysis of their interaction during myofibril formation and remodeling. Molecular Biology of the Cell, 2013, 24, 3215-3226.	2.1	35
71	Interplay of Matrix Stiffness and c-SRC in Hepatic Fibrosis. Frontiers in Physiology, 2015, 6, 359.	2.8	35
72	Genomic structure and fine mapping of the two human filamin gene paralogues FLNB and FLNC and comparative analysis of the filamin gene family. Human Genetics, 2000, 107, 597-611.	3.8	32

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73	Impairment of protein degradation in myofibrillar myopathy caused by FLNC/filamin C mutations. Autophagy, 2013, 9, 422-423.	9.1	30
74	Calpain 1-Î³ filamin interaction in muscle cells: A possible in situ regulation by PKC-Î±. International Journal of Biochemistry and Cell Biology, 2006, 38, 404-413.	2.8	29
75	Different early pathogenesis in myotilinopathy compared to primary desminopathy. Neuromuscular Disorders, 2006, 16, 361-367.	0.6	29
76	Maintaining proteostasis under mechanical stress. EMBO Reports, 2021, 22, e52507.	4.5	28
77	InÂvivo characterization of human myofibrillar myopathy genes in zebrafish. Biochemical and Biophysical Research Communications, 2015, 461, 217-223.	2.1	27
78	Rho-kinase inhibitor coupled to peptide-modified albumin carrier reduces portal pressure and increases renal perfusion in cirrhotic rats. Scientific Reports, 2019, 9, 2256.	3.3	26
79	Phosphoproteomics identifies dual-site phosphorylation in an extended basophilic motif regulating FILIP1-mediated degradation of filamin-C. Communications Biology, 2020, 3, 253.	4.4	25
80	Xin-repeats and Nebulin-like Repeats Bind to F-actin in a Similar Manner. Journal of Molecular Biology, 2006, 356, 714-723.	4.2	23
81	Back to square one: what do we know about the functions of Muscle LIM Protein in the heart?. Journal of Muscle Research and Cell Motility, 2008, 29, 155-158.	2.0	23
82	The novel cardiac z-disc protein CEFIP regulates cardiomyocyte hypertrophy by modulating calcineurin signaling. Journal of Biological Chemistry, 2017, 292, 15180-15191.	3.4	20
83	Structure and Expression of the Gene Encoding Murine M-Protein, a Sarcomere-Specific Member of the Immunoglobulin Superfamily. Genomics, 1998, 49, 83-95.	2.9	19
84	Skeletal muscle regeneration is delayed by reduction in Xin expression: consequence of impaired satellite cell activation?. American Journal of Physiology - Cell Physiology, 2012, 302, C220-C227.	4.6	19
85	Cardiac arrhythmia and late-onset muscle weakness caused by a myofibrillar myopathy with unusual histopathological features due to a novel missense mutation in FLNC. Revue Neurologique, 2016, 172, 594-606.	1.5	19
86	Expression and Cellular Distribution of Î±vIntegrins inÎ²1 Integrin-deficient Embryonic Stem Cell-derived Cardiac Cells. Journal of Molecular and Cellular Cardiology, 2001, 33, 521-532.	1.9	18
87	Uncoordinated Expression of Myosin Heavy Chains and Myosin-Binding Protein C Isoforms in Human Extraocular Muscles. , 2006, 47, 4188.		18
88	Myomesin, M-protein and the structure of the sarcomeric M-band. Advances in Biophysics, 1996, 33, 91-99.	0.5	17
89	Primary longitudinal adhesion structures: plectin-containing precursors of costameres in differentiating human skeletal muscle cells. Histochemistry and Cell Biology, 2002, 118, 301-310.	1.7	17
90	Overexpression of human BAG3P209L in mice causes restrictive cardiomyopathy. Nature Communications, 2021, 12, 3575.	12.8	17

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91	Homozygous expression of the myofibrillar myopathy-associated p.W2710X filamin C variant reveals major pathomechanisms of sarcomeric lesion formation. Acta Neuropathologica Communications, 2020, 8, 154.	5.2	16
92	Myopodin is an F-actin bundling protein with multiple independent actin-binding regions. Journal of Muscle Research and Cell Motility, 2013, 34, 61-69.	2.0	15
93	FLNC-Associated Myofibrillar Myopathy. Neurology: Genetics, 2021, 7, e590.	1.9	15
94	Assignment of the Human Gene for Endosarcomeric Cytoskeletal M-Protein (MYOM2) to 8p23.3. Genomics, 1999, 55, 253-255.	2.9	13
95	Constitutive upregulations of titin-based signalling proteins in KY deficient muscles. Neuromuscular Disorders, 2006, 16, 437-445.	0.6	13
96	DNA sequencing errors in molecular diagnostics of filamin myopathy. Clinical Chemistry and Laboratory Medicine, 2010, 48, 1409-1414.	2.3	13
97	Sarcomeric lesions and remodeling proximal to intercalated disks in overload-induced cardiac hypertrophy. Experimental Cell Research, 2016, 348, 95-105.	2.6	12
98	Expression of sarcomeric proteins and assembly of myofibrils in the putative myofibroblast cell line BHK-21/C13. , 1998, 19, 767-775.		11
99	First clinical and myopathological description of a myofibrillar myopathy with congenital onset and homozygous mutation in FLNC. Human Mutation, 2020, 41, 1600-1614.	2.5	11
100	Proteomic and morphological insights and clinical presentation of two young patients with novel mutations of BVES (POPDC1). Molecular Genetics and Metabolism, 2022, 136, 226-237.	1.1	11
101	Assignment of the Human Gene for the Sarcomeric M-Band Protein Myomesin (MYOM1) to 18p11.31â€“p11.32. Genomics, 1998, 54, 184-186.	2.9	10
102	Molecular basis of F-actin regulation and sarcomere assembly via myotilin. PLoS Biology, 2021, 19, e3001148.	5.6	9
103	Enrichment and terminal differentiation of striated muscle progenitors in vitro. Experimental Cell Research, 2009, 315, 2741-2751.	2.6	8
104	Nuclear localization of the zebrafish tight junction protein nagie oko. Developmental Dynamics, 2008, 237, 83-90.	1.8	7
105	Multipurpose modular lentiviral vectors for RNA interference and transgene expression. Molecular Biology Reports, 2010, 37, 2863-2870.	2.3	7
106	Recessive Mutations in SYNPO2 as a Candidate of Monogenic Nephrotic Syndrome. Kidney International Reports, 2021, 6, 472-483.	0.8	7
107	Tissue specific loss of proliferative capacity of parthenogenetic cells in fetal mouse chimeras. Roux's Archives of Developmental Biology, 1995, 204-204, 436-443.	1.2	6
108	p0071, a member of the armadillo multigene family, is a constituent of sarcomeric I-bands in human skeletal muscle. Journal of Muscle Research and Cell Motility, 2000, 21, 577-586.	2.0	6

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109	â€œMLP: A Stress Sensor Goes Nuclearâ€•By Sylvia Gunkel, JÃ¶rg Heineke, Denise Hilfiker-Kleiner, Ralph KnÃ¶ll, J Mol Cell Cardiol. 2009;47(4):423â€“5.. Journal of Molecular and Cellular Cardiology, 2010, 48, 424-425.	1.9	6
110	Ponsin interacts with Nck adapter proteins: implications for a role in cytoskeletal remodelling during differentiation of skeletal muscle cells. European Journal of Cell Biology, 2010, 89, 351-364.	3.6	5
111	246th ENMC International Workshop: Protein aggregate myopathies 24â€“26 May 2019, Hoofddorp, The Netherlands. Neuromuscular Disorders, 2021, 31, 158-166.	0.6	5
112	Isoform-specific functions of synaptopodin-2 variants in cytoskeleton stabilization and autophagy regulation in muscle under mechanical stress. Experimental Cell Research, 2021, 408, 112865.	2.6	5
113	The p.Ala2430Val mutation in filamin C causes a "hypertrophic myofibrillar cardiomyopathy". Journal of Muscle Research and Cell Motility, 2021, 42, 381-397.	2.0	4
114	Dominant-negative effects of a novel mutation in the filamin myopathy. Neurology, 2010, 75, 2137-2138.	1.1	3
115	Characterization of muscle filamin isoforms suggests a possible role of Î³-filamin/ABP-L in sarcomeric Z-disc formation. , 0, .		2
116	The cytoskeletal lattice of muscle cells. , 1993, , 193-206.		1
117	D.P.3.01 Immunohistochemical and ultrastructural findings in myofibrillar myopathies. Neuromuscular Disorders, 2008, 18, 765.	0.6	0
118	P5.56 Myofibrillar myopathy associated with filamin C mutations: Refining the phenotype and new insights in pathogenesis. Neuromuscular Disorders, 2011, 21, 741.	0.6	0
119	376 STATINS INDUCE SENESCENCE OF ACTIVATED HSC BY INHIBITION OF THE HEDGEHOG PATHWAY. Journal of Hepatology, 2012, 56, S152.	3.7	0
120	G.O.7 Distal myopathy with upper limb predominance caused by filamin C haploinsufficiency. Neuromuscular Disorders, 2012, 22, 874-875.	0.6	0
121	P.82First clinical and neuropathological description of a myofibrillar myopathy with congenital onset based on a homozygous recessive FLNC mutation. Neuromuscular Disorders, 2019, 29, S64-S65.	0.6	0
122	P.78Sarcomeric pathology induced by homozygous expression of the myofibrillar myopathy - associated p.W2711X filamin C mutant. Neuromuscular Disorders, 2019, 29, S63.	0.6	0
123	P.81Mutation in Z-disk associated protein filamin C (p.Ala2430Val) causes myofibrillar hypertrophic cardiomyopathy. Neuromuscular Disorders, 2019, 29, S64.	0.6	0