

Siegfried Labeit

List of Publications by Year in descending order

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77
papers

8,724
citations

70961

41
h-index

76769

74
g-index

77
all docs

77
docs citations

77
times ranked

9310
citing authors

#	ARTICLE	IF	CITATIONS
1	Cloning of the T gene required in mesoderm formation in the mouse. <i>Nature</i> , 1990, 343, 617-622.	13.7	818
2	The Complete Gene Sequence of Titin, Expression of an Unusual ≈ 700 -kDa Titin Isoform, and Its Interaction With Obscurin Identify a Novel Z-Line to I-Band Linking System. <i>Circulation Research</i> , 2001, 89, 1065-1072.	2.0	593
3	Mutations of TTN, encoding the giant muscle filament titin, cause familial dilated cardiomyopathy. <i>Nature Genetics</i> , 2002, 30, 201-204.	9.4	526
4	The Giant Protein Titin. <i>Circulation Research</i> , 2004, 94, 284-295.	2.0	524
5	Cardiac myosin binding protein-C gene splice acceptor site mutation is associated with familial hypertrophic cardiomyopathy. <i>Nature Genetics</i> , 1995, 11, 438-440.	9.4	417
6	Calcium-dependent molecular spring elements in the giant protein titin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13716-13721.	3.3	352
7	Identification of muscle specific ring finger proteins as potential regulators of the titin kinase domain. <i>Journal of Molecular Biology</i> , 2001, 306, 717-726.	2.0	350
8	Series of Exon-Skipping Events in the Elastic Spring Region of Titin as the Structural Basis for Myofibrillar Elastic Diversity. <i>Circulation Research</i> , 2000, 86, 1114-1121.	2.0	327
9	The Muscle Ankyrin Repeat Proteins: CARP, ankrd2/Arpp and DARP as a Family of Titin Filament-based Stress Response Molecules. <i>Journal of Molecular Biology</i> , 2003, 333, 951-964.	2.0	296
10	MURF-1 and MURF-2 Target a Specific Subset of Myofibrillar Proteins Redundantly: Towards Understanding MURF-dependent Muscle Ubiquitination. <i>Journal of Molecular Biology</i> , 2005, 350, 713-722.	2.0	270
11	Genetic Variation in Titin in Arrhythmogenic Right Ventricular Cardiomyopathy-Overlap Syndromes. <i>Circulation</i> , 2011, 124, 876-885.	1.6	263
12	Myopalladin, a Novel 145-Kilodalton Sarcomeric Protein with Multiple Roles in Z-Disc and I-Band Protein Assemblies. <i>Journal of Cell Biology</i> , 2001, 153, 413-428.	2.3	250
13	Titin Extensibility In Situ: Entropic Elasticity of Permanently Folded and Permanently Unfolded Molecular Segments. <i>Journal of Cell Biology</i> , 1998, 140, 853-859.	2.3	238
14	PKC Phosphorylation of Titin's PEVK Element. <i>Circulation Research</i> , 2009, 105, 631-638.	2.0	238
15	I-Band Titin in Cardiac Muscle Is a Three-Element Molecular Spring and Is Critical for Maintaining Thin Filament Structure. <i>Journal of Cell Biology</i> , 1999, 146, 631-644.	2.3	228
16	Muscle-specific RING finger-1 interacts with titin to regulate sarcomeric M-line and thick filament structure and may have nuclear functions via its interaction with glucocorticoid modulatory element binding protein-1. <i>Journal of Cell Biology</i> , 2002, 157, 125-136.	2.3	222
17	Diaphragm Muscle Fiber Weakness and Ubiquitin-Proteasome Activation in Critically Ill Patients. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015, 191, 1126-1138.	2.5	158
18	Cooperative control of striated muscle mass and metabolism by MuRF1 and MuRF2. <i>EMBO Journal</i> , 2008, 27, 350-360.	3.5	148

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19	Molecular Mechanics of Cardiac Titin's PEVK and N2B Spring Elements. <i>Journal of Biological Chemistry</i> , 2002, 277, 11549-11558.	1.6	141
20	Muscle RING-Finger Protein-1 (MuRF1) as a Connector of Muscle Energy Metabolism and Protein Synthesis. <i>Journal of Molecular Biology</i> , 2008, 376, 1224-1236.	2.0	138
21	Specific interaction of the potassium channel β -subunit minK with the sarcomeric protein T-cap suggests a T-tubule-myofibril linking system. <i>Journal of Molecular Biology</i> , 2001, 313, 775-784.	2.0	135
22	Conditional Expression of Mutant M-line Titins Results in Cardiomyopathy with Altered Sarcomere Structure. <i>Journal of Biological Chemistry</i> , 2003, 278, 6059-6065.	1.6	118
23	ANKRD1, the Gene Encoding Cardiac Ankyrin Repeat Protein, Is a Novel Dilated Cardiomyopathy Gene. <i>Journal of the American College of Cardiology</i> , 2009, 54, 325-333.	1.2	115
24	Molecular determinants for the recruitment of the ubiquitin ligase MuRF1 onto M-line titin. <i>FASEB Journal</i> , 2007, 21, 1383-1392.	0.2	91
25	Modulation of Muscle Atrophy, Fatigue and MLC Phosphorylation by MuRF1 as Indicated by Hindlimb Suspension Studies on MuRF1-KO Mice. <i>Journal of Biomedicine and Biotechnology</i> , 2010, 2010, 1-9.	3.0	90
26	Stress-induced dilated cardiomyopathy in a knock-in mouse model mimicking human titin-based disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 47, 352-358.	0.9	87
27	Role of autophagy, SQSTM1, SH3GLB1, and TRIM63 in the turnover of nicotinic acetylcholine receptors. <i>Autophagy</i> , 2014, 10, 123-136.	4.3	86
28	Dynamic distribution of muscle-specific calpain in mice has a key role in physical-stress adaptation and is impaired in muscular dystrophy. <i>Journal of Clinical Investigation</i> , 2010, 120, 2672-2683.	3.9	85
29	Induction of MuRF1 Is Essential for TNF- α -Induced Loss of Muscle Function in Mice. <i>Journal of Molecular Biology</i> , 2008, 384, 48-59.	2.0	84
30	Induction and Myofibrillar Targeting of CARP, and Suppression of the Nkx2.5 Pathway in the MDM Mouse with Impaired Titin-based Signaling. <i>Journal of Molecular Biology</i> , 2004, 336, 145-154.	2.0	83
31	A regular pattern of Ig super-motifs defines segmental flexibility as the elastic mechanism of the titin chain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1186-1191.	3.3	80
32	Titin and Its associated proteins: the third myofilament system of the sarcomere. <i>Advances in Protein Chemistry</i> , 2005, 71, 89-119.	4.4	77
33	MuRF1-dependent Regulation of Systemic Carbohydrate Metabolism as Revealed from Transgenic Mouse Studies. <i>Journal of Molecular Biology</i> , 2008, 379, 666-677.	2.0	76
34	Titin and Diaphragm Dysfunction in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006, 173, 527-534.	2.5	74
35	Small molecule inhibition of MuRF1 attenuates skeletal muscle atrophy and dysfunction in cardiac cachexia. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2017, 8, 939-953.	2.9	74
36	Tuning Passive Mechanics through Differential Splicing of Titin during Skeletal Muscle Development. <i>Biophysical Journal</i> , 2009, 97, 2277-2286.	0.2	58

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37	Titin-based mechanosensing modulates muscle hypertrophy. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2018, 9, 947-961.	2.9	58
38	Cardiac Hypertrophy and Reduced Contractility in Hearts Deficient in the Titin Kinase Region. <i>Circulation</i> , 2007, 115, 743-751.	1.6	57
39	Regulation of nicotinic acetylcholine receptor turnover by MuRF1 connects muscle activity to endo/lysosomal and atrophy pathways. <i>Age</i> , 2013, 35, 1663-1674.	3.0	55
40	Titin kinase is an inactive pseudokinase scaffold that supports MuRF1 recruitment to the sarcomeric M-line. <i>Open Biology</i> , 2014, 4, 140041.	1.5	52
41	Single Molecule Force Spectroscopy of the Cardiac Titin N2B Element. <i>Journal of Biological Chemistry</i> , 2009, 284, 13914-13923.	1.6	50
42	Single Molecule Force Spectroscopy on Titin Implicates Immunoglobulin Domain Stability as a Cardiac Disease Mechanism*. <i>Journal of Biological Chemistry</i> , 2013, 288, 5303-5315.	1.6	38
43	Structural Analysis of B-Box 2 from MuRF1: Identification of a Novel Self-Association Pattern in a RING-like Fold. <i>Biochemistry</i> , 2008, 47, 10722-10730.	1.2	36
44	Anti-titin and Antiryandine Receptor Antibodies in Myasthenia Gravis Patients with Thymoma. <i>Annals of the New York Academy of Sciences</i> , 1998, 841, 538-541.	1.8	35
45	Small-molecule-mediated chemical knock-down of MuRF1/MuRF2 and attenuation of diaphragm dysfunction in chronic heart failure. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019, 10, 1102-1115.	2.9	35
46	ZSF1 rat as animal model for HFpEF: Development of reduced diastolic function and skeletal muscle dysfunction. <i>ESC Heart Failure</i> , 2020, 7, 2123-2134.	1.4	31
47	Phosphorylating Titin's Cardiac N2B Element by ERK2 or CaMKII β Lowers the Single Molecule and Cardiac Muscle Force. <i>Biophysical Journal</i> , 2015, 109, 2592-2601.	0.2	30
48	Identification of an N-terminal inhibitory extension as the primary mechanosensory regulator of twitchin kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13608-13613.	3.3	25
49	CARP interacts with titin at a unique helical N2A sequence and at the domain Ig81 to form a structured complex. <i>FEBS Letters</i> , 2016, 590, 3098-3110.	1.3	22
50	Titin kinase ubiquitination aligns autophagy receptors with mechanical signals in the sarcomere. <i>EMBO Reports</i> , 2021, 22, e48018.	2.0	22
51	Expression of MuRF1 or MuRF2 is essential for the induction of skeletal muscle atrophy and dysfunction in a murine pulmonary hypertension model. <i>Skeletal Muscle</i> , 2020, 10, 12.	1.9	20
52	Targeting MuRF1 by small molecules in a HFpEF rat model improves myocardial diastolic function and skeletal muscle contractility. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022, 13, 1565-1581.	2.9	20
53	Molecular mechanisms behind progressing chronic inflammatory dilated cardiomyopathy. <i>BMC Cardiovascular Disorders</i> , 2015, 15, 26.	0.7	18
54	MuRFs Specialized Members of the TRIM/RBCC Family with Roles in the Regulation of the Trophic State of Muscle and Its Metabolism. <i>Advances in Experimental Medicine and Biology</i> , 2012, 770, 119-129.	0.8	18

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55	Molecular basis for the fold organization and sarcomeric targeting of the muscle atrogin MuRF1. <i>Open Biology</i> , 2014, 4, 130172.	1.5	17
56	Exploration of pathomechanisms triggered by a single-nucleotide polymorphism in titin's I-band: the cardiomyopathy-linked mutation T2580I. <i>Open Biology</i> , 2016, 6, 160114.	1.5	17
57	Muscle ankyrin repeat protein 1 (MARP1) locks titin to the sarcomeric thin filament and is a passive force regulator. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	17
58	Small-Molecule Chemical Knockdown of MuRF1 in Melanoma Bearing Mice Attenuates Tumor Cachexia Associated Myopathy. <i>Cells</i> , 2020, 9, 2272.	1.8	15
59	FoxO3a suppression and VPS34 activity are essential to anti-atrophic effects of leucine in skeletal muscle. <i>Cell and Tissue Research</i> , 2017, 369, 381-394.	1.5	14
60	In silico Prediction of miRNA Interactions With Candidate Atherosclerosis Gene mRNAs. <i>Frontiers in Genetics</i> , 2020, 11, 605054.	1.1	13
61	Cardiac specific titin N2B exon is a novel sensitive serological marker for cardiac injury. <i>International Journal of Cardiology</i> , 2016, 212, 232-234.	0.8	11
62	Dysregulated IER3 Expression is Associated with Enhanced Apoptosis in Titin-Based Dilated Cardiomyopathy. <i>International Journal of Molecular Sciences</i> , 2017, 18, 723.	1.8	11
63	Regulation of Glucose Metabolism by MuRF1 and Treatment of Myopathy in Diabetic Mice with Small Molecules Targeting MuRF1. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2225.	1.8	10
64	Emerging Strategies Targeting Catabolic Muscle Stress Relief. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4681.	1.8	9
65	Titin Transcripts in Thymomas. <i>Annals of the New York Academy of Sciences</i> , 1998, 841, 422-426.	1.8	8
66	Screening for anti-titin antibodies in patients with various paraneoplastic neurological syndromes. <i>Journal of Neuroimmunology</i> , 2016, 295-296, 18-20.	1.1	7
67	Cardiomyogenic Differentiation Potential of Human Dilated Myocardium-Derived Mesenchymal Stem/Stromal Cells: The Impact of HDAC Inhibitor SAHA and Biomimetic Matrices. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12702.	1.8	7
68	MuRF1 and MuRF2 are key players in skeletal muscle regeneration involving myogenic deficit and deregulation of the chromatin remodeling complex. <i>JCSM Rapid Communications</i> , 2019, 2, 1-25.	0.6	6
69	The E3 ligase MuRF2 plays a key role in the functional capacity of skeletal muscle fibroblasts. <i>Brazilian Journal of Medical and Biological Research</i> , 2019, 52, e8551.	0.7	6
70	Identification of Bovine miRNAs with the Potential to Affect Human Gene Expression. <i>Frontiers in Genetics</i> , 2021, 12, 705350.	1.1	6
71	Histone Deacetylase Inhibitor Suberoylanilide Hydroxamic Acid Improves Energetic Status and Cardiomyogenic Differentiation of Human Dilated Myocardium-Derived Primary Mesenchymal Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4845.	1.8	5
72	MuRF1 deficiency prevents age-related fat weight gain, possibly through accumulation of PDK4 in skeletal muscle mitochondria in older mice. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1026-1038.	1.2	5

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73	Leucine Supplementation Decreases HDAC4 Expression and Nuclear Localization in Skeletal Muscle Fiber of Rats Submitted to Hindlimb Immobilization. <i>Cells</i> , 2020, 9, 2582.	1.8	4
74	miR-29c Increases Protein Synthesis in Skeletal Muscle Independently of AKT/mTOR. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7198.	1.8	4
75	CHARACTERISTICS OF miRNA INTERACTION WITH mRNA OF ISCHEMIC HEART DISEASE CANDIDATE GENES. <i>Reports</i> , 2021, 335, 74-82.	0.0	0
76	FEATURES OF miRNA ASSOCIATIONS WITH mRNA OF MYOCARDIAL INFARCTION CANDIDATE GENES. <i>Reports</i> , 2021, 2, 46-53.	0.0	0
77	ASSOCIATIONS OF miRNA WITH mRNA OF ATHEROSCLEROSIS CANDIDATE GENES. <i>News of the National Academy of Sciences of the Republic of Kazakhstan Series of Biological and Medical</i> , 2020, 3, 5-13.	0.0	0