

Aikaterini Kontrogianni-Konstantopoul

List of Publications by Year in descending order

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47
papers

1,832
citations

236912

25
h-index

276858

41
g-index

47
all docs

47
docs citations

47
times ranked

1602
citing authors

#	ARTICLE	IF	CITATIONS
1	Muscle Giants: Molecular Scaffolds in Sarcomerogenesis. <i>Physiological Reviews</i> , 2009, 89, 1217-1267.	28.8	213
2	Obscurin Is a Ligand for Small Ankyrin 1 in Skeletal Muscle. <i>Molecular Biology of the Cell</i> , 2003, 14, 1138-1148.	2.1	171
3	Obscurin modulates the assembly and organization of sarcomeres and the sarcoplasmic reticulum. <i>FASEB Journal</i> , 2006, 20, 2102-2111.	0.5	93
4	A microfluidic assay for the quantification of the metastatic propensity of breast cancer specimens. <i>Nature Biomedical Engineering</i> , 2019, 3, 452-465.	22.5	85
5	Obscurin regulates the organization of myosin into A bands. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C209-C217.	4.6	62
6	The Hydrophilic Domain of Small Ankyrin-1 Interacts with the Two N-terminal Immunoglobulin Domains of Titin. <i>Journal of Biological Chemistry</i> , 2003, 278, 3985-3991.	3.4	59
7	Rapid response of cardiac obscurin gene cluster to aortic stenosis: differential activation of Rho-GEF and MLCK and involvement in hypertrophic growth. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 910-918.	2.1	55
8	Obscurin Interacts with a Novel Isoform of MyBP-C Slow at the Periphery of the Sarcomeric M-Band and Regulates Thick Filament Assembly. <i>Molecular Biology of the Cell</i> , 2009, 20, 2963-2978.	2.1	53
9	Thick Filament Protein Network, Functions, and Disease Association. , 2018, 8, 631-709.		53
10	Obscurin is required for the lateral alignment of striated myofibrils in zebrafish. <i>Developmental Dynamics</i> , 2006, 235, 2018-2029.	1.8	50
11	The Rho-Guanine Nucleotide Exchange Factor Domain of Obscurin Regulates Assembly of Titin at the Z-Disk through Interactions with Ran Binding Protein 9. <i>Molecular Biology of the Cell</i> , 2008, 19, 3782-3792.	2.1	50
12	Obscurin: a multitasking muscle giant. <i>Journal of Muscle Research and Cell Motility</i> , 2006, 26, 419-426.	2.0	49
13	Essential role of obscurin in cardiac myofibrillogenesis and hypertrophic response: evidence from small interfering RNA-mediated gene silencing. <i>Histochemistry and Cell Biology</i> , 2006, 125, 227-238.	1.7	49
14	Myosin Binding Protein-C: A Regulator of Actomyosin Interaction in Striated Muscle. <i>Journal of Biomedicine and Biotechnology</i> , 2011, 2011, 1-9.	3.0	48
15	Dynamics of Obscurin Localization During Differentiation and Remodeling of Cardiac Myocytes: Obscurin as an Integrator of Myofibrillar Structure. <i>Journal of Histochemistry and Cytochemistry</i> , 2004, 52, 1117-1127.	2.5	47
16	Myosin Binding Protein-C Slow is a Novel Substrate for Protein Kinase A (PKA) and C (PKC) in Skeletal Muscle. <i>Journal of Proteome Research</i> , 2011, 10, 4547-4555.	3.7	41
17	De novo myofibrillogenesis in C2C12 cells: evidence for the independent assembly of M bands and Z disks. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C626-C637.	4.6	40
18	Obscurins: Goliaths and Davids Take over Non-Muscle Tissues. <i>PLoS ONE</i> , 2014, 9, e88162.	2.5	40

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19	The kinase domains of obscurin interact with intercellular adhesion proteins. <i>FASEB Journal</i> , 2013, 27, 2001-2012.	0.5	38
20	Obscurins: Unassuming giants enter the spotlight. <i>IUBMB Life</i> , 2013, 65, 479-486.	3.4	33
21	Deregulated Ca ²⁺ cycling underlies the development of arrhythmia and heart disease due to mutant obscurin. <i>Science Advances</i> , 2017, 3, e1603081.	10.3	33
22	Loss of actomyosin regulation in distal arthrogryposis myopathy due to mutant myosin binding protein-C slow. <i>FASEB Journal</i> , 2013, 27, 3217-3228.	0.5	32
23	Regulation of myofilament force and loaded shortening by skeletal myosin binding protein C. <i>Journal of General Physiology</i> , 2019, 151, 645-659.	1.9	32
24	Loss of giant obscurins promotes breast epithelial cell survival through apoptotic resistance. <i>FASEB Journal</i> , 2012, 26, 2764-2775.	0.5	30
25	Myosin binding protein-C slow: a multifaceted family of proteins with a complex expression profile in fast and slow twitch skeletal muscles. <i>Frontiers in Physiology</i> , 2013, 4, 391.	2.8	30
26	The Sarcomeric M-Region: A Molecular Command Center for Diverse Cellular Processes. <i>BioMed Research International</i> , 2015, 2015, 1-25.	1.9	29
27	Novel mutations in <i>MYBPC1</i> are associated with myogenic tremor and mild myopathy. <i>Annals of Neurology</i> , 2019, 86, 129-142.	5.3	27
28	Novel obscurins mediate cardiomyocyte adhesion and size via the PI3K/AKT/mTOR signaling pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 111, 27-39.	1.9	26
29	Loss of the obscurin-RhoGEF downregulates RhoA signaling and increases microtentacle formation and attachment of breast epithelial cells. <i>Oncotarget</i> , 2014, 5, 8558-8568.	1.8	25
30	Unraveling obscurins in heart disease. <i>Pflugers Archiv European Journal of Physiology</i> , 2019, 471, 735-743.	2.8	23
31	Myosin Binding Protein-C Slow Phosphorylation is Altered in Duchenne Dystrophy and Arthrogryposis Myopathy in Fast-Twitch Skeletal Muscles. <i>Scientific Reports</i> , 2015, 5, 13235.	3.3	21
32	MYBPC1, an Emerging Myopathic Gene: What We Know and What We Need to Learn. <i>Frontiers in Physiology</i> , 2016, 7, 410.	2.8	21
33	Loss of giant obscurins alters breast epithelial cell mechanosensing of matrix stiffness. <i>Oncotarget</i> , 2017, 8, 54004-54020.	1.8	21
34	Heterozygous variants in <i>MYBPC1</i> are associated with an expanded neuromuscular phenotype beyond arthrogryposis. <i>Human Mutation</i> , 2019, 40, 1115-1126.	2.5	19
35	Deletion of obscurin immunoglobulin domains Ig58/59 leads to age-dependent cardiac remodeling and arrhythmia. <i>Basic Research in Cardiology</i> , 2020, 115, 60.	5.9	17
36	The Phosphorylation Profile of Myosin Binding Protein-C Slow is Dynamically Regulated in Slow-Twitch Muscles in Health and Disease. <i>Scientific Reports</i> , 2015, 5, 12637.	3.3	15

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37	Structure before function: myosin binding protein-1 is a structural protein with regulatory properties. <i>FASEB Journal</i> , 2018, 32, 6385-6394.	0.5	15
38	Giant obscurins regulate the PI3K cascade in breast epithelial cells via direct binding to the PI3K/p85 regulatory subunit. <i>Oncotarget</i> , 2016, 7, 45414-45428.	1.8	14
39	Characterization and Comparison of Two Binding Sites on Obscurin for Small Ankyrin 1. <i>Biochemistry</i> , 2010, 49, 9948-9956.	2.5	13
40	Giant obscurin regulates migration and metastasis via RhoA-dependent cytoskeletal remodeling in pancreatic cancer. <i>Cancer Letters</i> , 2022, 526, 155-167.	7.2	13
41	Proteomic Analysis of Myocardia Containing the Obscurin R4344Q Mutation Linked to Hypertrophic Cardiomyopathy. <i>Frontiers in Physiology</i> , 2020, 11, 478.	2.8	11
42	Obscurin: A multitasking giant in the fight against cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021, 1876, 188567.	7.4	11
43	Double the trouble: giant proteins with dual kinase activity in the heart. <i>Biophysical Reviews</i> , 2020, 12, 1019-1029.	3.2	10
44	Sarcomeric deficits underlie MYBPC1-associated myopathy with myogenic tremor. <i>JCI Insight</i> , 2021, 6, .	5.0	8
45	Sarcomeric myopathies associated with tremor: new insights and perspectives. <i>Journal of Muscle Research and Cell Motility</i> , 2020, 41, 285-295.	2.0	7
46	A new tale of an old story: obscurin bridges sarcomeres and intercalated discs in cardiomyocytes. <i>FASEB Journal</i> , 2012, 26, 864.13.	0.5	0
47	Obscurins: Giant proteins with tumor suppressing activities in breast cancer. <i>FASEB Journal</i> , 2012, 26, .	0.5	0