CÃ©cile Polge

List of Publications by Year
in descending order

37 papers	2,089 citations	279798 23 h-index	330143 37 g-index
38 all docs	38 docs citations	38 times ranked	3306 citing authors

#	Article	IF	Citations
1	Yeast Two-Hybrid, a Powerful Tool for Systems Biology. International Journal of Molecular Sciences, 2009, 10, 2763-2788.	4.1	436
2	SNF1/AMPK/SnRK1 kinases, global regulators at the heart of energy control?. Trends in Plant Science, 2007, 12, 20-28.	8.8	321
3	Muscle actin is polyubiquitinylated in vitro and in vivo and targeted for breakdown by the E3 ligase MuRF1. FASEB Journal, 2011, 25, 3790-3802.	0.5	121
4	Evidence for the Existence in Arabidopsis thaliana of the Proteasome Proteolytic Pathway. Journal of Biological Chemistry, 2009, 284, 35412-35424.	3.4	101
5	Skeletal Muscle Lipid Content and Oxidative Activity in Relation to Muscle Fiber Type in Aging and Metabolic Syndrome. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 566-576.	3.6	93
6	Mitochondrial kinases and their molecular interaction with cardiolipin. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 2032-2047.	2.6	82
7	Apoptosis in capillary endothelial cells in ageing skeletal muscle. Aging Cell, 2014, 13, 254-262.	6.7	77
8	AKINÎ²Î³ Contributes to SnRK1 Heterotrimeric Complexes and Interacts with Two Proteins Implicated in Plant Pathogen Resistance through Its KIS/GBD Sequence. Plant Physiology, 2006, 142, 931-944.	4.8	75
9	MuRF1/TRIM63, Master Regulator of Muscle Mass. International Journal of Molecular Sciences, 2020, 21, 6663.	4.1	65
10	Proteomics of muscle chronological ageing in post-menopausal women. BMC Genomics, 2014, 15, 1165.	2.8	64
11	Î²-Subunits of the SnRK1 Complexes Share a Common Ancestral Function Together with Expression and Function Specificities; Physical Interaction with Nitrate Reductase Specifically Occurs via AKINÎ²1-Subunit. Plant Physiology, 2008, 148, 1570-1582.	4.8	58
12	Glutathione S-Transferases Interact with AMP-Activated Protein Kinase: Evidence for S-Glutathionylation and Activation In Vitro. PLoS ONE, 2013, 8, e62497.	2.5	56
13	Modifications in endopeptidase and 20S proteasome expression and activities in cadmium treated tomato (Solanum lycopersicum L.) plants. Planta, 2008, 227, 625-639.	3.2	49
14	Skeletal muscle atrogenes: From rodent models to human pathologies. Biochimie, 2019, 166, 251-269.	2.6	43
15	Role of E2-Ub-conjugating enzymes during skeletal muscle atrophy. Frontiers in Physiology, 2015, 6, 59.	2.8	38
16	A muscleâ€specific <scp>MuRF1â€E2</scp> network requires stabilization of <scp>MuRF1â€E2</scp> complexes by telethonin, a newly identified substrate. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 129-145.	7.3	36
17	The worsening of tibialis anterior muscle atrophy during recovery post-immobilization correlates with enhanced connective tissue area, proteolysis, and apoptosis. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1335-E1347.	3.5	35
18	AKIN?3, a plant specific SnRK1 protein, is lacking domains present in yeast and mammals non-catalytic ?-subunits. Plant Molecular Biology, 2004, 56, 747-759.	3.9	34

#	Article	IF	Citations
19	Ubiquitin Ligases at the Heart of Skeletal Muscle Atrophy Control. Molecules, 2021, 26, 407.	3.8	31
20	Muscle wasting in patients with endâ€stage renal disease or earlyâ€stage lung cancer: common mechanisms at work. Journal of Cachexia, Sarcopenia and Muscle, 2019, 10, 323-337.	7.3	30
21	Lower skeletal muscle capillarization in hypertensive elderly men. Experimental Gerontology, 2016, 76, 80-88.	2.8	29
22	Docosahexaenoic acidâ€supplementation prior to fasting prevents muscle atrophy in mice. Journal of Cachexia, Sarcopenia and Muscle, 2016, 7, 587-603.	7.3	26
23	Homo-oligomerization and Activation of AMP-activated Protein Kinase Are Mediated by the Kinase Domain Î±G-Helix. Journal of Biological Chemistry, 2009, 284, 27425-27437.	3.4	25
24	UBE2B is implicated in myofibrillar protein loss in catabolic C2C12 myotubes. Journal of Cachexia, Sarcopenia and Muscle, 2016, 7, 377-387.	7.3	22
25	UBE2D2 is not involved in MuRF1-dependent muscle wasting during hindlimb suspension. International Journal of Biochemistry and Cell Biology, 2016, 79, 488-493.	2.8	20
26	A two-dimensional screen for AMPK substrates identifies tumor suppressor fumarate hydratase as a preferential AMPKÎ±2 substrate. Journal of Proteomics, 2012, 75, 3304-3313.	2.4	18
27	Deciphering the ubiquitin proteome: Limits and advantages of high throughput global affinity purification-mass spectrometry approaches. International Journal of Biochemistry and Cell Biology, 2013, 45, 2136-2146.	2.8	18
28	Muscle Proteomic and Transcriptomic Profiling of Healthy Aging and Metabolic Syndrome in Men. International Journal of Molecular Sciences, 2021, 22, 4205.	4.1	15
29	The delayed recovery of the remobilized rat tibialis anterior muscle reflects a defect in proliferative and terminal differentiation that impairs early regenerative processes. Journal of Cachexia, Sarcopenia and Muscle, 2015, 6, 73-83.	7.3	13
30	Mitophagy and Mitochondria Biogenesis Are Differentially Induced in Rat Skeletal Muscles during Immobilization and/or Remobilization. International Journal of Molecular Sciences, 2020, 21, 3691.	4.1	13
31	Upregulation of MuRF1 and MAFbx participates to muscle wasting upon gentamicin-induced acute kidney injury. International Journal of Biochemistry and Cell Biology, 2016, 79, 505-516.	2.8	12
32	UBE2L3, a Partner of MuRF1/TRIM63, Is Involved in the Degradation of Myofibrillar Actin and Myosin. Cells, 2021, 10, 1974.	4.1	9
33	UBE2E1 Is Preferentially Expressed in the Cytoplasm of Slow-Twitch Fibers and Protects Skeletal Muscles from Exacerbated Atrophy upon Dexamethasone Treatment. Cells, 2018, 7, 214.	4.1	7
34	Concurrent BMP Signaling Maintenance and TGF-Î² Signaling Inhibition Is a Hallmark of Natural Resistance to Muscle Atrophy in the Hibernating Bear. Cells, 2021, 10, 1873.	4.1	7
35	Magnesium transport and homeostasis-related gene expression in skeletal muscle of young and old adults: analysis of the transcriptomic data from the PROOF cohort Study. Magnesium Research, 2019, 32, 72-82.	0.5	4
36	A Single Bout of Ultra-Endurance Exercise Reveals Early Signs of Muscle Aging in Master Athletes. International Journal of Molecular Sciences, 2022, 23, 3713.	4.1	2

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37	A Surface Plasmon Resonance-Based Two-Dimensional Screen for Protein Kinase Substrates Identifies Fumarase as AMPK Target. Biophysical Journal, 2012, 102, 573a.	0.5	0