

Sergio Giannattasio

List of Publications by Year in descending order

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67
papers

2,155
citations

236925

25
h-index

233421

45
g-index

67
all docs

67
docs citations

67
times ranked

2936
citing authors

#	ARTICLE	IF	CITATIONS
1	Glutamate neurotoxicity, oxidative stress and mitochondria. <i>FEBS Letters</i> , 2001, 497, 1-5.	2.8	306
2	Guidelines and recommendations on yeast cell death nomenclature. <i>Microbial Cell</i> , 2018, 5, 4-31.	3.2	158
3	Molecular mechanisms of <i>Saccharomyces cerevisiae</i> stress adaptation and programmed cell death in response to acetic acid. <i>Frontiers in Microbiology</i> , 2013, 4, 33.	3.5	133
4	Acid stress adaptation protects <i>Saccharomyces cerevisiae</i> from acetic acid-induced programmed cell death. <i>Gene</i> , 2005, 354, 93-98.	2.2	112
5	Mitochondrial Dysfunction: A Novel Potential Driver of Epithelial-to-Mesenchymal Transition in Cancer. <i>Frontiers in Oncology</i> , 2017, 7, 295.	2.8	96
6	Retrograde Response to Mitochondrial Dysfunction Is Separable from TOR1/2 Regulation of Retrograde Gene Expression. <i>Journal of Biological Chemistry</i> , 2005, 280, 42528-42535.	3.4	78
7	Mitochondrial dysfunction in cancer chemoresistance. <i>Biochemical Pharmacology</i> , 2014, 92, 62-72.	4.4	73
8	YCA1 participates in the acetic acid induced yeast programmed cell death also in a manner unrelated to its caspase-like activity. <i>FEBS Letters</i> , 2006, 580, 6880-6884.	2.8	71
9	Early release and subsequent caspase-mediated degradation of cytochrome c in apoptotic cerebellar granule cells. <i>FEBS Letters</i> , 1999, 457, 126-130.	2.8	65
10	An increase in the ATP levels occurs in cerebellar granule cells en route to apoptosis in which ATP derives from both oxidative phosphorylation and anaerobic glycolysis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1708, 50-62.	1.0	56
11	Cytochrome c is released from coupled mitochondria of yeast en route to acetic acid-induced programmed cell death and can work as an electron donor and a ROS scavenger. <i>FEBS Letters</i> , 2008, 582, 1519-1525.	2.8	55
12	The role of mitochondria in yeast programmed cell death. <i>Frontiers in Oncology</i> , 2012, 2, 70.	2.8	54
13	Mitochondria-cytosol-nucleus crosstalk: learning from <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2018, 18, .	2.3	53
14	Yeast acetic acid-induced programmed cell death can occur without cytochrome c release which requires metacaspase YCA1. <i>FEBS Letters</i> , 2010, 584, 224-228.	2.8	52
15	The expanding role of yeast in cancer research and diagnosis: insights into the function of the oncosuppressors p53 and BRCA1/2. <i>FEMS Yeast Research</i> , 2014, 14, 2-16.	2.3	51
16	Simultaneous determination of purine nucleotides, their metabolites and β -nicotinamide adenine dinucleotide in cerebellar granule cells by ion-pair high performance liquid chromatography. <i>Brain Research Protocols</i> , 2003, 10, 168-174.	1.6	48
17	Active-site Arg \rightarrow Lys Substitutions Alter Reaction and Substrate Specificity of Aspartate Aminotransferase. <i>Journal of Biological Chemistry</i> , 1997, 272, 21932-21937.	3.4	45
18	Achievements and perspectives in yeast acetic acid-induced programmed cell death pathways. <i>Biochemical Society Transactions</i> , 2011, 39, 1538-1543.	3.4	45

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19	Catalase T and Cu, Zn-superoxide dismutase in the acetic acid-induced programmed cell death in <i>Saccharomyces cerevisiae</i> . FEBS Letters, 2008, 582, 210-214.	2.8	44
20	Yeast growth in raffinose results in resistance to acetic-acid induced programmed cell death mostly due to the activation of the mitochondrial retrograde pathway. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 2765-2774.	4.1	39
21	Hydrogen peroxide and superoxide anion production during acetic acid-induced yeast programmed cell death. Folia Microbiologica, 2007, 52, 237-40.	2.3	37
22	SLC25A10 biallelic mutations in intractable epileptic encephalopathy with complex I deficiency. Human Molecular Genetics, 2018, 27, 499-504.	2.9	37
23	Yeast as a Tool to Study Signaling Pathways in Mitochondrial Stress Response and Cytoprotection. Scientific World Journal, The, 2012, 2012, 1-10.	2.1	35
24	Knock-out of metacaspase and/or cytochrome <i>c</i> results in the activation of a ROS-independent acetic acid-induced programmed cell death pathway in yeast. FEBS Letters, 2010, 584, 3655-3660.	2.8	32
25	Epigenetic silencing of the ubiquitin ligase subunit FBXL7 impairs c-SRC degradation and promotes epithelial-to-mesenchymal transition and metastasis. Nature Cell Biology, 2020, 22, 1130-1142.	10.3	28
26	Proteome and metabolome profiling of wild-type and YCA1 -knock-out yeast cells during acetic acid-induced programmed cell death. Journal of Proteomics, 2015, 128, 173-188.	2.4	27
27	Acid Stress Triggers Resistance to Acetic Acid-Induced Regulated Cell Death through <i>Hog1</i> Activation Which Requires <i>RTG2</i> in Yeast. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-9.	4.0	25
28	Mechanisms of peroxidic oxygen transfer to organic substrates. Tetrahedron, 1984, 40, 2763-2771.	1.9	24
29	Genetic Heterogeneity in Five Italian Regions: Analysis of PAH Mutations and Minihaplotypes. Human Heredity, 2001, 52, 154-159.	0.8	20
30	Fumarate permeation in rat liver mitochondria: Fumarate/malate and fumarate/phosphate translocators. Biochemical and Biophysical Research Communications, 1985, 132, 8-18.	2.1	18
31	The transcription factors ADR1 or CAT8 are required for RTG pathway activation and evasion from yeast acetic acid-induced programmed cell death in raffinose. Microbial Cell, 2016, 3, 621-631.	3.2	18
32	The STR252 - IVS10nt546 - VNTR7 phenylalanine hydroxylase minihaplotype in five Mediterranean samples. Human Genetics, 1997, 100, 350-355.	3.8	17
33	Pleiotropic effects of the yeast Sal1 and Aac2 carriers on mitochondrial function via an activity distinct from adenine nucleotide transport. Molecular Genetics and Genomics, 2008, 280, 25-39.	2.1	17
34	Stress-Related Mitochondrial Components and Mitochondrial Genome as Targets of Anticancer Therapy. Chemical Biology and Drug Design, 2013, 81, 102-112.	3.2	17
35	Molecular evolution of B6 enzymes: Binding of pyridoxal-5'-phosphate and Lys41Arg substitution turn ribonuclease A into a model B6 protoenzyme. BMC Biochemistry, 2008, 9, 17.	4.4	16
36	A transient proteasome activation is needed for acetic acid-induced programmed cell death to occur in <i>Saccharomyces cerevisiae</i> . FEMS Yeast Research, 2008, 8, 400-404.	2.3	16

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37	Characterization of mitochondrial DNA in primary cardiomyopathies. <i>Clinica Chimica Acta</i> , 1995, 243, 181-189.	1.1	13
38	Shift in pH-Rate Profile and Enhanced Discrimination between Dicarboxylic and Aromatic Substrates in Mitochondrial Aspartate Aminotransferase Y70H. <i>Biochemistry</i> , 1994, 33, 2757-2760.	2.5	10
39	Cytochrome c Trp65Ser substitution results in inhibition of acetic acid-induced programmed cell death in <i>Saccharomyces cerevisiae</i> . <i>Mitochondrion</i> , 2011, 11, 987-991.	3.4	9
40	Differential proteomeâ€“metabolome profiling of YCA1-knock-out and wild type cells reveals novel metabolic pathways and cellular processes dependent on the yeast metacaspase. <i>Molecular BioSystems</i> , 2015, 11, 1573-1583.	2.9	9
41	The in vitro-synthesized precursor and mature mitochondrial aspartate aminotransferase share the same import pathway in isolated mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1991, 290, 528-534.	3.0	8
42	Import of mutant forms of mitochondrial aspartate aminotransferase into isolated mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1992, 298, 532-537.	3.0	8
43	Kinetic properties and thermal stabilities of mutant forms of mitochondrial aspartate aminotransferase. <i>BBA - Proteins and Proteomics</i> , 1998, 1386, 29-38.	2.1	8
44	Silencing of BRCA2 decreases anoikis and its heterologous expression sensitizes yeast cells to acetic acid-induced programmed cell death. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2014, 19, 1330-1341.	4.9	7
45	Yeast as a Tool to Study Mitochondrial Retrograde Pathway En Route to Cell Stress Response. <i>Methods in Molecular Biology</i> , 2015, 1265, 321-331.	0.9	7
46	Yeast Stress, Aging, and Death. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-3.	4.0	6
47	Detection of microsatellites by ethidium bromide staining. The analysis of an STR system in the human phenylalanine hydroxylase gene. <i>Molecular and Cellular Probes</i> , 1997, 11, 81-83.	2.1	5
48	Editorial: Cell Stress, Metabolic Reprogramming, and Cancer. <i>Frontiers in Oncology</i> , 2018, 8, 236.	2.8	5
49	6-Thioguanine and Its Analogs Promote Apoptosis of Castration-Resistant Prostate Cancer Cells in a BRCA2-Dependent Manner. <i>Cancers</i> , 2019, 11, 945.	3.7	5
50	The N-Terminal Region of Mature Mitochondrial Aspartate Aminotransferase Can Direct Cytosolic Dihydrofolate Reductase into Mitochondria in Vitro. <i>Biochemical and Biophysical Research Communications</i> , 1994, 201, 1059-1065.	2.1	4
51	Novel missense mutation in the phenylalanine hydroxylase gene leading to complete loss of enzymatic activity. <i>Human Mutation</i> , 1995, 6, 247-249.	2.5	4
52	Non-radioactive detection of five common microsatellite markers for ATP7B gene in Wilson disease patients. <i>Molecular and Cellular Probes</i> , 2003, 17, 271-274.	2.1	4
53	Molecular Basis of Cystic Fibrosis in Lithuania: Incomplete CFTR Mutation Detection by PCR-Based Screening Protocols. <i>Genetic Testing and Molecular Biomarkers</i> , 2006, 10, 169-173.	1.7	4
54	The N-Acetylcysteine-Insensitive Acetic Acid-Induced Yeast Programmed Cell Death Occurs Without Macroautophagy. <i>Current Pharmaceutical Biotechnology</i> , 2012, 13, 2705-2711.	1.6	4

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55	RTG Signaling Sustains Mitochondrial Respiratory Capacity in HOG1-Dependent Osmoadaptation. <i>Microorganisms</i> , 2021, 9, 1894.	3.6	4
56	Certain N-terminal peptides inhibit uptake of mature aspartate aminotransferase by isolated mitochondria. <i>Biochemical and Biophysical Research Communications</i> , 1990, 170, 609-615.	2.1	3
57	Molecular screening of genetic defects with RNAâ€“SSCP analysis: the PKU and cystinuria model. <i>Molecular and Cellular Probes</i> , 1995, 9, 201-205.	2.1	3
58	Analysis of Mitochondrial Retrograde Signaling in Yeast Model Systems. <i>Methods in Molecular Biology</i> , 2021, 2276, 87-102.	0.9	3
59	Heterologous expression of carnation Italian ringspot virus p36 protein enhances necrotic cell death in response to acetic acid in <i>Saccharomyces cerevisiae</i> . <i>Mechanisms of Ageing and Development</i> , 2017, 161, 255-261.	4.6	2
60	Cumulative Effects of Mutations in Newly Synthesized Mitochondrial Aspartate Aminotransferase on Uptake into Mitochondria. <i>Biochemical and Biophysical Research Communications</i> , 1995, 214, 511-517.	2.1	1
61	Molecular Mechanisms of Programmed Cell Death Induced by Acetic Acid in <i>Saccharomyces cerevisiae</i> . <i>Microbiology Monographs</i> , 2012, , 57-75.	0.6	1
62	Use of Protease Sensitivity to Probe the Conformations of Newly Synthesized Mutant Forms of Mitochondrial Aspartate Aminotransferase. <i>Biochemical and Biophysical Research Communications</i> , 1995, 215, 800-807.	2.1	0
63	Yeast between life and death: a summary of the Ninth International Meeting on Yeast Apoptosis in Rome, Italy, 17â€“20 September 2012. <i>Cell Death and Differentiation</i> , 2013, 20, 1281-1283.	11.2	0
64	Silencing of <i>BRCA2</i> to Identify Novel BRCA2-regulated Biological Functions in Cultured Human Cells. <i>Journal of Visualized Experiments</i> , 2015, , e52849.	0.3	0
65	New perspectives from South-Y-East, not all about death A report of the 12th International Meeting on Yeast Apoptosis in Bari, Italy, May 14th-18th, 2017. <i>Microbial Cell</i> , 2018, 5, 112-115.	3.2	0
66	Yeast as a Model to Unravel New BRCA2 Functions in Cell Metabolism. <i>Frontiers in Oncology</i> , 0, 12, .	2.8	0
67	Mitochondrial Research: Yeast and Human Cells as Models. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6654.	4.1	0