

Maria Rosa Ciriolo

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91
papers

9,492
citations

38
h-index

93
g-index

93
ext. papers

10,991
ext. citations

6.7
avg, IF

5.54
L-index

#	Paper	IF	Citations
91	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
90	Immune evasion in cancer: Mechanistic basis and therapeutic strategies. <i>Seminars in Cancer Biology</i> , 2015 , 35 Suppl, S185-S198	12.7	738
89	Broad targeting of resistance to apoptosis in cancer. <i>Seminars in Cancer Biology</i> , 2015 , 35 Suppl, S78-S103	12.7	368
88	Sustained proliferation in cancer: Mechanisms and novel therapeutic targets. <i>Seminars in Cancer Biology</i> , 2015 , 35 Suppl, S25-S54	12.7	321
87	Broad targeting of angiogenesis for cancer prevention and therapy. <i>Seminars in Cancer Biology</i> , 2015 , 35 Suppl, S224-S243	12.7	314
86	Peroxisome proliferator-activated receptor gamma co-activator 1alpha (PGC-1alpha) and sirtuin 1 (SIRT1) reside in mitochondria: possible direct function in mitochondrial biogenesis. <i>Journal of Biological Chemistry</i> , 2010 , 285, 21590-9	5.4	248
85	Cancer prevention and therapy through the modulation of the tumor microenvironment. <i>Seminars in Cancer Biology</i> , 2015 , 35 Suppl, S199-S223	12.7	201
84	Role of nitric oxide synthases in Parkinson's disease: a review on the antioxidant and anti-inflammatory activity of polyphenols. <i>Neurochemical Research</i> , 2008 , 33, 2416-26	4.6	191
83	Designing a broad-spectrum integrative approach for cancer prevention and treatment. <i>Seminars in Cancer Biology</i> , 2015 , 35 Suppl, S276-S304	12.7	179
82	Genomic instability in human cancer: Molecular insights and opportunities for therapeutic attack and prevention through diet and nutrition. <i>Seminars in Cancer Biology</i> , 2015 , 35 Suppl, S5-S24	12.7	175
81	Redox implications of AMPK-mediated signal transduction beyond energetic clues. <i>Journal of Cell Science</i> , 2012 , 125, 2115-25	5.3	154
80	Under the ROS shield network is the principal suspect for autophagy commitment. <i>Autophagy</i> , 2010 , 6, 999-1005	10.2	129
79	Glutathione limits Ero1-dependent oxidation in the endoplasmic reticulum. <i>Journal of Biological Chemistry</i> , 2004 , 279, 32667-73	5.4	124
78	Glutathione disulfide induces apoptosis in U937 cells by a redox-mediated p38 MAP kinase pathway. <i>FASEB Journal</i> , 2003 , 17, 64-6	0.9	115
77	TCA Cycle Defects and Cancer: When Metabolism Tunes Redox State. <i>International Journal of Cell Biology</i> , 2012 , 2012, 161837	2.6	112
76	Evidence for antiviral activity of glutathione: in vitro inhibition of herpes simplex virus type 1 replication. <i>Antiviral Research</i> , 1995 , 27, 237-53	10.8	112
75	Loss of GSH, oxidative stress, and decrease of intracellular pH as sequential steps in viral infection. <i>Journal of Biological Chemistry</i> , 1997 , 272, 2700-8	5.4	108

74	Proapoptotic activity of new glutathione S-transferase inhibitors. <i>Cancer Research</i> , 2005 , 65, 3751-61	10.1	97
73	Influenza virus replication in lung epithelial cells depends on redox-sensitive pathways activated by NOX4-derived ROS. <i>Cellular Microbiology</i> , 2015 , 17, 131-45	3.9	90
72	Targeting aerobic glycolysis: 3-bromopyruvate as a promising anticancer drug. <i>Journal of Bioenergetics and Biomembranes</i> , 2012 , 44, 17-29	3.7	87
71	Glutathione participates in the modulation of starvation-induced autophagy in carcinoma cells. <i>Autophagy</i> , 2012 , 8, 1769-81	10.2	86
70	Cu,Zn-superoxide dismutase-dependent apoptosis induced by nitric oxide in neuronal cells. <i>Journal of Biological Chemistry</i> , 2000 , 275, 5065-72	5.4	78
69	A multi-targeted approach to suppress tumor-promoting inflammation. <i>Seminars in Cancer Biology</i> , 2015 , 35 Suppl, S151-S184	12.7	76
68	Evidence for co-regulation of Cu,Zn superoxide dismutase and metallothionein gene expression in yeast through transcriptional control by copper via the ACE 1 factor. <i>FEBS Letters</i> , 1991 , 278, 263-6	3.8	75
67	Mitochondrial dysfunctions in cancer: genetic defects and oncogenic signaling impinging on TCA cycle activity. <i>Cancer Letters</i> , 2015 , 356, 217-23	9.9	73
66	Punctum on two different transcription factors regulated by PGC-1 β nuclear factor erythroid-derived 2-like 2 and nuclear respiratory factor 2. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 4137-46	4	69
65	Modulation of intracellular glutathione affects adipogenesis in 3T3-L1 cells. <i>Journal of Cellular Physiology</i> , 2011 , 226, 2016-24	7	59
64	Carcinoma cells activate AMP-activated protein kinase-dependent autophagy as survival response to kaempferol-mediated energetic impairment. <i>Autophagy</i> , 2010 , 6, 202-16	10.2	55
63	Targeting Glutathione Metabolism: Partner in Crime in Anticancer Therapy. <i>Nutrients</i> , 2019 , 11,	6.7	49
62	Nitric oxide is the primary mediator of cytotoxicity induced by GSH depletion in neuronal cells. <i>Journal of Cell Science</i> , 2011 , 124, 1043-54	5.3	49
61	Pharmacological activation of SIRT6 triggers lethal autophagy in human cancer cells. <i>Cell Death and Disease</i> , 2018 , 9, 996	9.8	49
60	Mitochondrial damage due to SOD1 deficiency in SH-SY5Y neuroblastoma cells: a rationale for the redundancy of SOD1. <i>FASEB Journal</i> , 2006 , 20, 1683-5	0.9	48
59	MAPK14/p38 β dependent modulation of glucose metabolism affects ROS levels and autophagy during starvation. <i>Autophagy</i> , 2014 , 10, 1652-65	10.2	46
58	Proteasome activation and nNOS down-regulation in neuroblastoma cells expressing a Cu,Zn superoxide dismutase mutant involved in familial ALS. <i>Journal of Neurochemistry</i> , 2003 , 85, 1324-35	6	42
57	Activation of c-Jun-N-terminal kinase is required for apoptosis triggered by glutathione disulfide in neuroblastoma cells. <i>Free Radical Biology and Medicine</i> , 2005 , 39, 345-54	7.8	41

56	Hints on ATGL implications in cancer: beyond bioenergetic clues. <i>Cell Death and Disease</i> , 2018 , 9, 316	9.8	40
55	Glutamine deprivation enhances antitumor activity of 3-bromopyruvate through the stabilization of monocarboxylate transporter-1. <i>Cancer Research</i> , 2012 , 72, 4526-36	10.1	40
54	6-(7-Nitro-2,1,3-benzoxadiazol-4-ylthio)hexanol, a specific glutathione S-transferase inhibitor, overcomes the multidrug resistance (MDR)-associated protein 1-mediated MDR in small cell lung cancer. <i>Molecular Cancer Therapeutics</i> , 2008 , 7, 371-9	6.1	40
53	Dehydroepiandrosterone triggers autophagic cell death in human hepatoma cell line HepG2 via JNK-mediated p62/SQSTM1 expression. <i>Carcinogenesis</i> , 2016 , 37, 233-44	4.6	36
52	The role of nNOS and PGC-1 β in skeletal muscle cells. <i>Journal of Cell Science</i> , 2014 , 127, 4813-20	5.3	35
51	The TCA cycle as a bridge between oncometabolism and DNA transactions in cancer. <i>Seminars in Cancer Biology</i> , 2017 , 47, 50-56	12.7	34
50	Metformin protects skeletal muscle from cardiotoxin induced degeneration. <i>PLoS ONE</i> , 2014 , 9, e114018	9.7	33
49	The cystine/cysteine cycle and GSH are independent and crucial antioxidant systems in malignant melanoma cells and represent druggable targets. <i>Antioxidants and Redox Signaling</i> , 2011 , 15, 2439-53	8.4	33
48	Differential role of superoxide and glutathione in S-nitrosoglutathione-mediated apoptosis: a rationale for mild forms of familial amyotrophic lateral sclerosis associated with less active Cu,Zn superoxide dismutase mutants. <i>Journal of Neurochemistry</i> , 2001 , 77, 1433-43	6	32
47	Metabolic oxidative stress elicited by the copper(II) complex [Cu(isaepy) ₂] triggers apoptosis in SH-SY5Y cells through the induction of the AMP-activated protein kinase/p38MAPK/p53 signalling axis: evidence for a combined use with 3-bromopyruvate in neuroblastoma treatment. <i>Biochemical Journal</i> , 2011 , 437, 443-53	3.8	31
46	FoxO1 at the nexus between fat catabolism and longevity pathways. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014 , 1841, 1555-1560	5	27
45	trans-Resveratrol inhibits H ₂ O ₂ -induced adenocarcinoma gastric cells proliferation via inactivation of MEK1/2-ERK1/2-c-Jun signalling axis. <i>Biochemical Pharmacology</i> , 2009 , 77, 337-47	6	26
44	Role of the electrostatic loop of Cu,Zn superoxide dismutase in the copper uptake process. <i>FEBS Journal</i> , 2001 , 268, 737-42		26
43	Oxidative Stress-Driven Autophagy acROSS Onset and Therapeutic Outcome in Hepatocellular Carcinoma. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 6050123	6.7	23
42	Altered S-nitrosylation of p53 is responsible for impaired antioxidant response in skeletal muscle during aging. <i>Aging</i> , 2016 , 8, 3450-3467	5.6	23
41	Neuronal nitric oxide synthase protects neuroblastoma cells from oxidative stress mediated by garlic derivatives. <i>Journal of Neurochemistry</i> , 2007 , 101, 1327-37	6	22
40	Adipose triglyceride lipase decrement affects skeletal muscle homeostasis during aging through FAs-PPAR β -PGC-1 β antioxidant response. <i>Oncotarget</i> , 2016 , 7, 23019-32	3.3	21
39	Forcing ATGL expression in hepatocarcinoma cells imposes glycolytic rewiring through PPAR β -p300-mediated acetylation of p53. <i>Oncogene</i> , 2019 , 38, 1860-1875	9.2	21

38	Managing lipid metabolism in proliferating cells: new perspective for metformin usage in cancer therapy. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2014 , 1845, 317-24	11.2	20
37	Aconitase 2 inhibits the proliferation of MCF-7 cells promoting mitochondrial oxidative metabolism and ROS/FoxO1-mediated autophagic response. <i>British Journal of Cancer</i> , 2020 , 122, 182-193	8.7	20
36	Glutathione and Nitric Oxide: Key Team Players in Use and Disuse of Skeletal Muscle. <i>Nutrients</i> , 2019 , 11,	6.7	18
35	Glutathione is a crucial guardian of protein integrity in the brain upon nitric oxide imbalance. <i>Communicative and Integrative Biology</i> , 2011 , 4, 477-479	1.7	18
34	Caloric Restriction and the Nutrient-Sensing PGC-1 β in Mitochondrial Homeostasis: New Perspectives in Neurodegeneration. <i>International Journal of Cell Biology</i> , 2012 , 2012, 759583	2.6	18
33	Reactive oxygen and nitrogen species are involved in sorbitol-induced apoptosis of human erithroleukaemia cells K562. <i>Free Radical Research</i> , 2007 , 41, 452-60	4	18
32	An X-ray absorption study of the reconstitution process of bovine Cu,Zn superoxide dismutase by Cu(I)-glutathione complex. <i>FEBS Letters</i> , 1993 , 322, 165-7	3.8	18
31	Adipose Tissue and FoxO1: Bridging Physiology and Mechanisms. <i>Cells</i> , 2020 , 9,	7.9	18
30	Time-controlled fasting prevents aging-like mitochondrial changes induced by persistent dietary fat overload in skeletal muscle. <i>PLoS ONE</i> , 2018 , 13, e0195912	3.7	18
29	GSH-C4 Acts as Anti-inflammatory Drug in Different Models of Canonical and Cell Autonomous Inflammation Through NFB Inhibition. <i>Frontiers in Immunology</i> , 2019 , 10, 155	8.4	15
28	Tau dephosphorylation and microfilaments disruption are upstream events of the anti-proliferative effects of DADS in SH-SY5Y cells. <i>Journal of Cellular and Molecular Medicine</i> , 2010 , 14, 564-77	5.6	15
27	The novel non-steroidal MR antagonist finerenone improves metabolic parameters in high-fat diet-fed mice and activates brown adipose tissue via AMPK-ATGL pathway. <i>FASEB Journal</i> , 2020 , 34, 12450-12455	9.9	15
26	FoxO1 localizes to mitochondria of adipose tissue and is affected by nutrient stress. <i>Metabolism: Clinical and Experimental</i> , 2019 , 95, 84-92	12.7	14
25	Transient cytoskeletal alterations after SOD1 depletion in neuroblastoma cells. <i>Cellular and Molecular Life Sciences</i> , 2008 , 65, 991-1004	10.3	13
24	Interplay of Cu,Zn superoxide dismutase and nitric oxide synthase in neurodegenerative processes. <i>IUBMB Life</i> , 2003 , 55, 629-34	4.7	13
23	Neuronal nitric oxide synthase interacts with Sp1 through the PDZ domain inhibiting Sp1-mediated copper-zinc superoxide dismutase expression. <i>International Journal of Biochemistry and Cell Biology</i> , 2011 , 43, 163-9	5.6	11
22	Autophagy and Autophagic Cell Death: Uncovering New Mechanisms Whereby Dehydroepiandrosterone Promotes Beneficial Effects on Human Health. <i>Vitamins and Hormones</i> , 2018 , 108, 273-307	2.5	10
21	Purification and characterization of Alpha-Fetoprotein from the human hepatoblastoma HepG2 cell line in serum-free medium. <i>BioMetals</i> , 2007 , 20, 869-78	3.4	8

20	Maternal high calorie diet induces mitochondrial dysfunction and senescence phenotype in subcutaneous fat of newborn mice. <i>Oncotarget</i> , 2017 , 8, 83407-83418	3.3	8
19	High Dietary Fat Intake Affects DNA Methylation/Hydroxymethylation in Mouse Heart: Epigenetic Hints for Obesity-Related Cardiac Dysfunction. <i>Molecular Nutrition and Food Research</i> , 2019 , 63, e1800970	5.9	8
18	Label-free metabolic clustering through unsupervised pixel classification of multiparametric fluorescent images. <i>Analytica Chimica Acta</i> , 2021 , 1148, 238173	6.6	7
17	Deprive to kill: glutamine closes the gate to anticancer monocarboxylic drugs. <i>Autophagy</i> , 2012 , 8, 1830-20.2	20.2	6
16	Aconitase 2 sensitizes MCF-7 cells to cisplatin eliciting p53-mediated apoptosis in a ROS-dependent manner. <i>Biochemical Pharmacology</i> , 2020 , 180, 114202	6	5
15	Extracellular vesicles in endothelial cells: from mediators of cell-to-cell communication to cargo delivery tools. <i>Free Radical Biology and Medicine</i> , 2021 , 172, 508-520	7.8	5
14	ROS-dependent HIF1 α activation under forced lipid catabolism entails glycolysis and mitophagy as mediators of higher proliferation rate in cervical cancer cells. <i>Journal of Experimental and Clinical Cancer Research</i> , 2021 , 40, 94	12.8	4
13	The multifaceted role of nitric oxide synthases in mitochondrial biogenesis and cell differentiation. <i>Communicative and Integrative Biology</i> , 2015 , 8, e1017158	1.7	3
12	Effect of the redox state of the red blood cell components on the inactivation of glutathione peroxidase by divicine. <i>Free Radical Research Communications</i> , 1986 , 1, 297-304		3
11	Antiproliferative and apoptosis-inducing effect of common Tunisian date seed (var. Korkobbi and Arechti) phytochemical-rich methanolic extract. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 36264-36273	5.1	3
10	Inhibition of JNK increases the sensitivity of hepatocellular carcinoma cells to lysosomotropic drugs via LAMP2A destabilization. <i>Cell Death Discovery</i> , 2021 , 7, 29	6.9	3
9	Lipid Catabolism and ROS in Cancer: A Bidirectional Liaison. <i>Cancers</i> , 2021 , 13,	6.6	2
8	Oleuropein Aglycone Peracetylated (3,4-DHPEA-EA(P)) Attenuates HO-Mediated Cytotoxicity in C2C12 Myocytes via Inactivation of p-JNK/p-c-Jun Signaling Pathway. <i>Molecules</i> , 2020 , 25,	4.8	2
7	Aberrations of the TCA Cycle in Cancer 2018 ,		2
6	Glutamine Addiction of Cancer Cells 2015 , 99-111		1
5	BK Polyomavirus Activates HSF1 Stimulating Human Kidney Hek293 Cell Proliferation. <i>Oxidative Medicine and Cellular Longevity</i> , 2021 , 2021, 9176993	6.7	0
4	ROS-mediated activation of p38 protects hepatocellular carcinoma cells from caspase-independent death elicited by lysosomal damage.. <i>Biochemical Pharmacology</i> , 2022 , 114983	6	0
3	The impact of ionizing irradiation on liver detoxifying enzymes. A re-investigation. <i>Cell Death Discovery</i> , 2019 , 5, 66	6.9	

2 GSH, Sulfur Amino Acids, and Apoptosis 211-256

1 Impaired degradation of YAP1 and IL6ST by chaperone-mediated autophagy promotes proliferation and migration of normal and hepatocellular carcinoma cells.. *Autophagy*, **2022**, 1-11

10.2