

Didac Carmona-Gutierrez

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

12,274
citations

41
h-index

89
g-index

89
ext. papers

14,998
ext. citations

8.8
avg. IF

5.65
L-index

#	Paper	IF	Citations
79	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
78	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018 , 25, 486-541	12.7	2160
77	Induction of autophagy by spermidine promotes longevity. <i>Nature Cell Biology</i> , 2009 , 11, 1305-14	23.4	1033
76	Cardioprotection and lifespan extension by the natural polyamine spermidine. <i>Nature Medicine</i> , 2016 , 22, 1428-1438	50.5	532
75	An immunosurveillance mechanism controls cancer cell ploidy. <i>Science</i> , 2012 , 337, 1678-84	33.3	299
74	Polyamines in aging and disease. <i>Aging</i> , 2011 , 3, 716-32	5.6	283
73	Endonuclease G regulates budding yeast life and death. <i>Molecular Cell</i> , 2007 , 25, 233-46	17.6	269
72	The search for antiaging interventions: from elixirs to fasting regimens. <i>Cell</i> , 2014 , 157, 1515-26	56.2	233
71	Caloric Restriction Mimetics against Age-Associated Disease: Targets, Mechanisms, and Therapeutic Potential. <i>Cell Metabolism</i> , 2019 , 29, 592-610	24.6	227
70	Nucleocytosolic depletion of the energy metabolite acetyl-coenzyme a stimulates autophagy and prolongs lifespan. <i>Cell Metabolism</i> , 2014 , 19, 431-44	24.6	189
69	Lifespan extension by methionine restriction requires autophagy-dependent vacuolar acidification. <i>PLoS Genetics</i> , 2014 , 10, e1004347	6	143
68	Why yeast cells can undergo apoptosis: death in times of peace, love, and war. <i>Journal of Cell Biology</i> , 2006 , 175, 521-5	7.3	143
67	The crucial impact of lysosomes in aging and longevity. <i>Ageing Research Reviews</i> , 2016 , 32, 2-12	12	130
66	Necrosis in yeast. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2010 , 15, 257-68	5.4	117
65	Caspase-dependent and caspase-independent cell death pathways in yeast. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 382, 227-31	3.4	116
64	Functional mitochondria are required for alpha-synuclein toxicity in aging yeast. <i>Journal of Biological Chemistry</i> , 2008 , 283, 7554-60	5.4	110
63	Fatty acids trigger mitochondrion-dependent necrosis. <i>Cell Cycle</i> , 2010 , 9, 2836-42	4.7	108

62	A yeast BH3-only protein mediates the mitochondrial pathway of apoptosis. <i>EMBO Journal</i> , 2011 , 30, 2779-92	13	105
61	Spermidine protects against β synuclein neurotoxicity. <i>Cell Cycle</i> , 2014 , 13, 3903-8	4.7	104
60	Prognostic impact of vitamin B6 metabolism in lung cancer. <i>Cell Reports</i> , 2012 , 2, 257-69	10.6	100
59	The antifungal plant defensin RsAFP2 from radish induces apoptosis in a metacaspase independent way in <i>Candida albicans</i> . <i>FEBS Letters</i> , 2009 , 583, 2513-6	3.8	99
58	Autophagy in Cardiovascular Aging. <i>Circulation Research</i> , 2018 , 123, 803-824	15.7	99
57	Guidelines and recommendations on yeast cell death nomenclature. <i>Microbial Cell</i> , 2018 , 5, 4-31	3.9	96
56	The Warburg effect suppresses oxidative stress induced apoptosis in a yeast model for cancer. <i>PLoS ONE</i> , 2009 , 4, e4592	3.7	83
55	The mitochondrial ribosomal protein of the large subunit, Afo1p, determines cellular longevity through mitochondrial back-signaling via TOR1. <i>Aging</i> , 2009 , 1, 622-36	5.6	76
54	The Antifungal Plant Defensin HsAFP1 from <i>Heuchera sanguinea</i> Induces Apoptosis in <i>Candida albicans</i> . <i>Frontiers in Microbiology</i> , 2011 , 2, 47	5.7	70
53	Neurotoxic 43-kDa TAR DNA-binding protein (TDP-43) triggers mitochondrion-dependent programmed cell death in yeast. <i>Journal of Biological Chemistry</i> , 2011 , 286, 19958-72	5.4	68
52	Endonuclease G mediates β synuclein cytotoxicity during Parkinson's disease. <i>EMBO Journal</i> , 2013 , 32, 3041-54	13	63
51	Cell cycle regulation via inter-nuclear communication during the early embryonic development of <i>Drosophila melanogaster</i> . <i>Cell Cycle</i> , 2010 , 9, 2908-10	4.7	62
50	The flavonoid 4,4'-dimethoxychalcone promotes autophagy-dependent longevity across species. <i>Nature Communications</i> , 2019 , 10, 651	17.4	62
49	Spermidine: a physiological autophagy inducer acting as an anti-aging vitamin in humans?. <i>Autophagy</i> , 2019 , 15, 165-168	10.2	62
48	Mitochondrial dysfunction leads to reduced chronological lifespan and increased apoptosis in yeast. <i>FEBS Letters</i> , 2009 , 583, 113-7	3.8	56
47	Mitochondrial lipids in neurodegeneration. <i>Cell and Tissue Research</i> , 2017 , 367, 125-140	4.2	50
46	Spermidine-triggered autophagy ameliorates memory during aging. <i>Autophagy</i> , 2014 , 10, 178-9	10.2	48
45	Loss of peroxisome function triggers necrosis. <i>FEBS Letters</i> , 2008 , 582, 2882-6	3.8	48

44	Digesting the crisis: autophagy and coronaviruses. <i>Microbial Cell</i> , 2020 , 7, 119-128	3.9	47
43	Yeast as a tool to identify anti-aging compounds. <i>FEMS Yeast Research</i> , 2018 , 18,	3.1	46
42	Identification of evolutionarily conserved genetic regulators of cellular aging. <i>Aging Cell</i> , 2010 , 9, 1084-97.	9.9	46
41	Dietary spermidine for lowering high blood pressure. <i>Autophagy</i> , 2017 , 13, 767-769	10.2	44
40	Spermidine delays aging in humans. <i>Aging</i> , 2018 , 10, 2209-2211	5.6	41
39	Antiproliferative effect of dihydroxyacetone on <i>Trypanosoma brucei</i> bloodstream forms: cell cycle progression, subcellular alterations, and cell death. <i>Antimicrobial Agents and Chemotherapy</i> , 2007 , 51, 3960-8	5.9	36
38	Acetyl-coenzyme A: a metabolic master regulator of autophagy and longevity. <i>Autophagy</i> , 2014 , 10, 1335-7.	7.2	34
37	3,4-Dimethoxychalcone induces autophagy through activation of the transcription factors TFE3 and TFEB. <i>EMBO Molecular Medicine</i> , 2019 , 11, e10469	12	33
36	Ceramide triggers metacaspase-independent mitochondrial cell death in yeast. <i>Cell Cycle</i> , 2011 , 10, 3973-8.	4.8	32
35	Independent transcriptional reprogramming and apoptosis induction by cisplatin. <i>Cell Cycle</i> , 2012 , 11, 3472-80	4.7	31
34	Resveratrol induces antioxidant defence via transcription factor Yap1p. <i>Yeast</i> , 2012 , 29, 251-63	3.4	30
33	Spermidine feeding decreases age-related locomotor activity loss and induces changes in lipid composition. <i>PLoS ONE</i> , 2014 , 9, e102435	3.7	30
32	When less is more: hormesis against stress and disease. <i>Microbial Cell</i> , 2014 , 1, 150-153	3.9	26
31	Depletion of endonuclease G selectively kills polyploid cells. <i>Cell Cycle</i> , 2007 , 6, 1072-6	4.7	26
30	Dietary spermidine improves cognitive function. <i>Cell Reports</i> , 2021 , 35, 108985	10.6	25
29	The many ways to age for a single yeast cell. <i>Yeast</i> , 2014 , 31, 289-98	3.4	24
28	Spermidine promotes mating and fertilization efficiency in model organisms. <i>Cell Cycle</i> , 2013 , 12, 346-52.	4.7	20
27	The sweet taste of death: glucose triggers apoptosis during yeast chronological aging. <i>Aging</i> , 2010 , 2, 643-9	5.6	20

26	The metabolism beyond programmed cell death in yeast. <i>Experimental Cell Research</i> , 2012 , 318, 1193-2002	10.2	18
25	The Coordinated Action of Calcineurin and Cathepsin D Protects Against β Synuclein Toxicity. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 207	6.1	17
24	A histone point mutation that switches on autophagy. <i>Autophagy</i> , 2014 , 10, 1143-5	10.2	17
23	Spermidine reduces cancer-related mortality in humans. <i>Autophagy</i> , 2019 , 15, 362-365	10.2	17
22	When death was young: an ancestral apoptotic network in bacteria. <i>Molecular Cell</i> , 2012 , 46, 552-4	17.6	15
21	The cell death protease Kex1p is essential for hypochlorite-induced apoptosis in yeast. <i>Cell Cycle</i> , 2013 , 12, 1704-12	4.7	15
20	Acetyl-CoA carboxylase 1-dependent lipogenesis promotes autophagy downstream of AMPK. <i>Journal of Biological Chemistry</i> , 2019 , 294, 12020-12039	5.4	13
19	Skn1 and Ipt1 negatively regulate autophagy in <i>Saccharomyces cerevisiae</i> . <i>FEMS Microbiology Letters</i> , 2010 , 303, 163-8	2.9	13
18	Nutritional Aspects of Spermidine. <i>Annual Review of Nutrition</i> , 2020 , 40, 135-159	9.9	12
17	Diacylglycerol triggers Rim101 pathway-dependent necrosis in yeast: a model for lipotoxicity. <i>Cell Death and Differentiation</i> , 2018 , 25, 767-783	12.7	12
16	A discovery platform for the identification of caloric restriction mimetics with broad health-improving effects. <i>Autophagy</i> , 2020 , 16, 188-189	10.2	12
15	Studying Huntington's Disease in Yeast: From Mechanisms to Pharmacological Approaches. <i>Frontiers in Molecular Neuroscience</i> , 2018 , 11, 318	6.1	11
14	Autophagy extends lifespan via vacuolar acidification. <i>Microbial Cell</i> , 2014 , 1, 160-162	3.9	10
13	The neuroprotective steroid progesterone promotes mitochondrial uncoupling, reduces cytosolic calcium and augments stress resistance in yeast cells. <i>Microbial Cell</i> , 2017 , 4, 191-199	3.9	10
12	The ups and downs of caloric restriction and fasting: from molecular effects to clinical application. <i>EMBO Molecular Medicine</i> , 2021 , e14418	12	9
11	Yeast unravels epigenetic apoptosis control: deadly chat within a histone tail. <i>Molecular Cell</i> , 2006 , 24, 167-9	17.6	8
10	Mitochondrial energy metabolism is required for lifespan extension by the spastic paraplegia-associated protein spartin. <i>Microbial Cell</i> , 2017 , 4, 411-422	3.9	8
9	Cell cycle control of cell death in yeast. <i>Cell Cycle</i> , 2010 , 9, 4046	4.7	7

8	4,4'-Dimethoxychalcone: a natural flavonoid that promotes health through autophagy-dependent and -independent effects. <i>Autophagy</i> , 2019 , 15, 1662-1664	10.2	6
7	Isobacachalcone induces autophagy and improves the outcome of immunogenic chemotherapy. <i>Cell Death and Disease</i> , 2020 , 11, 1015	9.8	6
6	Tracing the Roots of Death: Apoptosis in <i>Saccharomyces cerevisiae</i> 2009 , 325-354		3
5	Targeting GATA transcription factors - a novel strategy for anti-aging interventions?. <i>Microbial Cell</i> , 2019 , 6, 212-216	3.9	2
4	Ethanolamine: A novel anti-aging agent. <i>Molecular and Cellular Oncology</i> , 2016 , 3, e1019023	1.2	2
3	Spermidine supplementation in rare translation-associated disorders. <i>Cell Stress</i> , 2021 , 5, 29-32	5.5	1
2	Transcriptional and epigenetic control of regulated cell death in yeast. <i>International Review of Cell and Molecular Biology</i> , 2020 , 352, 55-82	6	0
1	Assessing autophagic flux in yeast. <i>Methods in Cell Biology</i> , 2021 , 164, 73-94	1.8	