Didac Carmona-Gutierrez

List of Publications by Year
in descending order

88 papers	17,183 citations	57758 44 h-index	51608 86 g-index
89 all docs	89 docs citations	89 times ranked	29401 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. Cell Death and Differentiation, 2018, 25, 486-541.	11.2	4,036
3	Induction of autophagy by spermidine promotes longevity. Nature Cell Biology, 2009, 11, 1305-1314.	10.3	1,302
4	Cardioprotection and lifespan extension by the natural polyamine spermidine. Nature Medicine, 2016, 22, 1428-1438.	30.7	801
5	Caloric Restriction Mimetics against Age-Associated Disease: Targets, Mechanisms, and Therapeutic Potential. Cell Metabolism, 2019, 29, 592-610.	16.2	394
6	Polyamines in aging and disease. Aging, 2011, 3, 716-732.	3.1	376
7	An Immunosurveillance Mechanism Controls Cancer Cell Ploidy. Science, 2012, 337, 1678-1684.	12.6	367
8	Endonuclease G Regulates Budding Yeast Life and Death. Molecular Cell, 2007, 25, 233-246.	9.7	305
9	The Search for Antiaging Interventions: From Elixirs to Fasting Regimens. Cell, 2014, 157, 1515-1526.	28.9	302
10	Nucleocytosolic Depletion of the Energy Metabolite Acetyl-Coenzyme A Stimulates Autophagy and Prolongs Lifespan. Cell Metabolism, 2014, 19, 431-444.	16.2	221
11	The crucial impact of lysosomes in aging and longevity. Ageing Research Reviews, 2016, 32, 2-12.	10.9	200
12	Lifespan Extension by Methionine Restriction Requires Autophagy-Dependent Vacuolar Acidification. PLoS Genetics, 2014, 10, e1004347.	3.5	192
13	Microbial wars: competition in ecological niches and within the microbiome. Microbial Cell, 2018, 5, 215-219.	3.2	189
14	Autophagy in Cardiovascular Aging. Circulation Research, 2018, 123, 803-824.	4.5	171
15	Why yeast cells can undergo apoptosis: death in times of peace, love, and war. Journal of Cell Biology, 2006, 175, 521-525.	5.2	168
16	Guidelines and recommendations on yeast cell death nomenclature. Microbial Cell, 2018, 5, 4-31.	3.2	158
17	Caspase-dependent and caspase-independent cell death pathways in yeast. Biochemical and Biophysical Research Communications, 2009, 382, 227-231.	2.1	132
18	Spermidine protects against Î±-synuclein neurotoxicity. Cell Cycle, 2014, 13, 3903-3908.	2.6	132

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19	Necrosis in yeast. Apoptosis: an International Journal on Programmed Cell Death, 2010, 15, 257-268.	4.9	127
20	Prognostic Impact of Vitamin B6 Metabolism in Lung Cancer. Cell Reports, 2012, 2, 257-269.	6.4	122
21	Functional Mitochondria Are Required for Î±-Synuclein Toxicity in Aging Yeast. Journal of Biological Chemistry, 2008, 283, 7554-7560.	3.4	121
22	A yeast BH3-only protein mediates the mitochondrial pathway of apoptosis. EMBO Journal, 2011, 30, 2779-2792.	7.8	120
23	Interdependent regulation of p53 and miR-34a in chronic lymphocytic leukemia. Cell Cycle, 2010, 9, 2836-2840.	2.6	116
24	The antifungal plant defensin RsAFP2 from radish induces apoptosis in a metacaspase independent way in Candida albicans. FEBS Letters, 2009, 583, 2513-2516.	2.8	113
25	Spermidine: a physiological autophagy inducer acting as an anti-aging vitamin in humans?. Autophagy, 2019, 15, 165-168.	9.1	108
26	The flavonoid 4,4â€²-dimethoxychalcone promotes autophagy-dependent longevity across species. Nature Communications, 2019, 10, 651.	12.8	100
27	Dietary spermidine improves cognitive function. Cell Reports, 2021, 35, 108985.	6.4	98
28	The Warburg Effect Suppresses Oxidative Stress Induced Apoptosis in a Yeast Model for Cancer. PLoS ONE, 2009, 4, e4592.	2.5	96
29	The Antifungal Plant Defensin HsAFP1 from Heuchera Sanguinea Induces Apoptosis in Candida Albicans. Frontiers in Microbiology, 2011, 2, 47.	3.5	83
30	The mitochondrial ribosomal protein of the large subunit, Afo1p, determines cellular longevity through mitochondrial back-signaling via TOR1. Aging, 2009, 1, 622-636.	3.1	81
31	Neurotoxic 43-kDa TAR DNA-binding Protein (TDP-43) Triggers Mitochondrion-dependent Programmed Cell Death in Yeast. Journal of Biological Chemistry, 2011, 286, 19958-19972.	3.4	80
32	The ups and downs of caloric restriction and fasting: from molecular effects to clinical application. EMBO Molecular Medicine, 2022, 14, e14418.	6.9	76
33	Yeast as a tool to identify anti-aging compounds. FEMS Yeast Research, 2018, 18, .	2.3	74
34	Fatty acids trigger mitochondrion-dependent necrosis. Cell Cycle, 2010, 9, 2908-2914.	2.6	71
35	Endonuclease G mediates Î±-synuclein cytotoxicity during Parkinson's disease. EMBO Journal, 2013, 32, 3041-3054.	7.8	71
36	Mitochondrial dysfunction leads to reduced chronological lifespan and increased apoptosis in yeast. FEBS Letters, 2009, 583, 113-117.	2.8	63

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37	Dietary spermidine for lowering high blood pressure. Autophagy, 2017, 13, 767-769.	9.1	63
38	Spermidine-triggered autophagy ameliorates memory during aging. Autophagy, 2014, 10, 178-179.	9.1	62
39	Mitochondrial lipids in neurodegeneration. Cell and Tissue Research, 2017, 367, 125-140.	2.9	62
40	Spermidine delays aging in humans. Aging, 2018, 10, 2209-2211.	3.1	62
41	Digesting the crisis: autophagy and coronaviruses. Microbial Cell, 2020, 7, 119-128.	3.2	59
42	Identification of evolutionarily conserved genetic regulators of cellular aging. Aging Cell, 2010, 9, 1084-1097.	6.7	57
43	Nutritional Aspects of Spermidine. Annual Review of Nutrition, 2020, 40, 135-159.	10.1	55
44	Loss of peroxisome function triggers necrosis. FEBS Letters, 2008, 582, 2882-2886.	2.8	52
45	Antiproliferative Effect of Dihydroxyacetone on Trypanosoma brucei Bloodstream Forms: Cell Cycle Progression, Subcellular Alterations, and Cell Death. Antimicrobial Agents and Chemotherapy, 2007, 51, 3960-3968.	3.2	45
46	3,4â€Dimethoxychalcone induces autophagy through activation of the transcription factors <scp>TFE</scp> 3 and <scp>TFEB</scp>. EMBO Molecular Medicine, 2019, 11, e10469.	6.9	45
47	Acetyl-coenzyme A. Autophagy, 2014, 10, 1335-1337.	9.1	42
48	Spermidine Feeding Decreases Age-Related Locomotor Activity Loss and Induces Changes in Lipid Composition. PLoS ONE, 2014, 9, e102435.	2.5	42
49	Ceramide triggers metacaspase-independent mitochondrial cell death in yeast. Cell Cycle, 2011, 10, 3973-3978.	2.6	40
50	When less is more: hormesis against stress and disease. Microbial Cell, 2014, 1, 150-153.	3.2	37
51	Resveratrol induces antioxidant defence via transcription factor Yap1p. Yeast, 2012, 29, 251-263.	1.7	33
52	Independent transcriptional reprogramming and apoptosis induction by cisplatin. Cell Cycle, 2012, 11, 3472-3480.	2.6	32
53	Spermidine reduces cancer-related mortality in humans. Autophagy, 2019, 15, 362-365.	9.1	31
54	Depletion of Endonuclease G Selectively Kills Polyploid Cells. Cell Cycle, 2007, 6, 1072-1076.	2.6	29

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55	Spermidine promotes mating and fertilization efficiency in model organisms. Cell Cycle, 2013, 12, 346-352.	2.6	29
56	The many ways to age for a single yeast cell. Yeast, 2014, 31, 289-298.	1.7	29
57	Acetyl-CoA carboxylase 1â€“dependent lipogenesis promotes autophagy downstream of AMPK. Journal of Biological Chemistry, 2019, 294, 12020-12039.	3.4	29
58	The cell death protease Kex1p is essential for hypochlorite-induced apoptosis in yeast. Cell Cycle, 2013, 12, 1704-1712.	2.6	23
59	Studying Huntingtonâ€™s Disease in Yeast: From Mechanisms to Pharmacological Approaches. Frontiers in Molecular Neuroscience, 2018, 11, 318.	2.9	23
60	The sweet taste of death: glucose triggers apoptosis during yeast chronological aging. Aging, 2010, 2, 643-649.	3.1	23
61	The metabolism beyond programmed cell death in yeast. Experimental Cell Research, 2012, 318, 1193-1200.	2.6	22
62	The Coordinated Action of Calcineurin and Cathepsin D Protects Against Î±-Synuclein Toxicity. Frontiers in Molecular Neuroscience, 2017, 10, 207.	2.9	22
63	Diacylglycerol triggers Rim101 pathwayâ€“dependent necrosis in yeast: a model for lipotoxicity. Cell Death and Differentiation, 2018, 25, 767-783.	11.2	22
64	A molecular mechanism for lipophagy regulation in the liver. Hepatology, 2015, 61, 1781-1783.	7.3	21
65	A discovery platform for the identification of caloric restriction mimetics with broad health-improving effects. Autophagy, 2020, 16, 188-189.	9.1	21
66	Autophagy: one more Nobel Prize for yeast. Microbial Cell, 2016, 3, 579-581.	3.2	20
67	A histone point mutation that switches on autophagy. Autophagy, 2014, 10, 1143-1145.	9.1	18
68	Sexually transmitted infections: old foes on the rise. Microbial Cell, 2016, 3, 361-362.	3.2	17
69	Isobacachalcone induces autophagy and improves the outcome of immunogenic chemotherapy. Cell Death and Disease, 2020, 11, 1015.	6.3	17
70	Skn1 and Ipt1 negatively regulate autophagy inSaccharomyces cerevisiae. FEMS Microbiology Letters, 2010, 303, 163-168.	1.8	16
71	When Death Was Young: An Ancestral Apoptotic Network in Bacteria. Molecular Cell, 2012, 46, 552-554.	9.7	15
72	Metabolites in aging and autophagy. Microbial Cell, 2014, 1, 110-114.	3.2	15

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73	Autophagy extends lifespan via vacuolar acidification. Microbial Cell, 2014, 1, 160-162.	3.2	13
74	Yeast Unravels Epigenetic Apoptosis Control: Deadly Chat within a Histone Tail. Molecular Cell, 2006, 24, 167-169.	9.7	10
75	The neuroprotective steroid progesterone promotes mitochondrial uncoupling, reduces cytosolic calcium and augments stress resistance in yeast cells. Microbial Cell, 2017, 4, 191-199.	3.2	10
76	Mitochondrial energy metabolism is required for lifespan extension by the spastic paraplegia-associated protein spartin. Microbial Cell, 2017, 4, 411-422.	3.2	10
77	Cell cycle control of cell death in yeast. Cell Cycle, 2010, 9, 4052-4051.	2.6	8
78	4,4'Dimethoxychalcone: a natural flavonoid that promotes health through autophagy-dependent and -independent effects. Autophagy, 2019, 15, 1662-1664.	9.1	8
79	Targeting GATA transcription factors â€“ a novel strategy for anti-aging interventions?. Microbial Cell, 2019, 6, 212-216.	3.2	6
80	Tracing the Roots of Death: Apoptosis in Saccharomyces cerevisiae. , 2009, , 325-354.		4
81	Ethanolamine: A novel anti-aging agent. Molecular and Cellular Oncology, 2016, 3, e1019023.	0.7	4
82	Spermidine supplementation in rare translation associated disorders. Cell Stress, 2021, 5, 29-32.	3.2	4
83	One cell, one love: a journal for microbial research. Microbial Cell, 2014, 1, 1-5.	3.2	4
84	A hundred spotlights on microbiology: how microorganisms shape our lives. Microbial Cell, 2022, 9, 72-79.	3.2	2
85	Assessing autophagic flux in yeast. Methods in Cell Biology, 2021, 164, 73-94.	1.1	1
86	Transcriptional and epigenetic control of regulated cell death in yeast. International Review of Cell and Molecular Biology, 2020, 352, 55-82.	3.2	1
87	Prognostic Impact of Vitamin B6 Metabolism in Lung Cancer. Cell Reports, 2012, 2, 1472.	6.4	0
88	Yeast Cell Death During the Drying and Rehydration Process. , 0, , .		0