

Ben Loos

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

6,051
citations

172457

29
h-index

95266

68
g-index

83
all docs

83
docs citations

83
times ranked

14426
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
2	Defining and measuring autophagosome flux—concept and reality. <i>Autophagy</i> , 2014, 10, 2087-2096.	9.1	225
3	Modulating autophagy in cancer therapy: Advancements and challenges for cancer cell death sensitization. <i>Biochemical Pharmacology</i> , 2018, 147, 170-182.	4.4	138
4	Mitochondrial catastrophe during doxorubicin-induced cardiotoxicity: a review of the protective role of melatonin. <i>Journal of Pineal Research</i> , 2014, 57, 367-380.	7.4	134
5	The variability of autophagy and cell death susceptibility. <i>Autophagy</i> , 2013, 9, 1270-1285.	9.1	126
6	Diet-induced obesity alters signalling pathways and induces atrophy and apoptosis in skeletal muscle in a prediabetic rat model. <i>Experimental Physiology</i> , 2011, 96, 179-193.	2.0	124
7	AHNAK: The giant jack of all trades. <i>Cellular Signalling</i> , 2014, 26, 2683-2693.	3.6	124
8	Proanthocyanidin from grape seeds inactivates the PI3-kinase/PKB pathway and induces apoptosis in a colon cancer cell line. <i>Cancer Letters</i> , 2007, 258, 144-153.	7.2	122
9	Autophagy upregulation promotes survival and attenuates doxorubicin-induced cardiotoxicity. <i>Biochemical Pharmacology</i> , 2013, 85, 124-134.	4.4	121
10	Adhesion of the probiotic strains <i>Enterococcus mundtii</i> ST4SA and <i>Lactobacillus plantarum</i> 423 to Caco-2 cells under conditions simulating the intestinal tract, and in the presence of antibiotics and anti-inflammatory medicaments. <i>Archives of Microbiology</i> , 2008, 190, 573-584.	2.2	108
11	Curcumin Rescues a PINK1 Knock Down SH-SY5Y Cellular Model of Parkinson's Disease from Mitochondrial Dysfunction and Cell Death. <i>Molecular Neurobiology</i> , 2017, 54, 2752-2762.	4.0	90
12	The good, the bad and the autophagosome: exploring unanswered questions of autophagy-dependent cell death. <i>Cell Death and Differentiation</i> , 2019, 26, 640-652.	11.2	89
13	Evidence for a common biological pathway linking three Parkinson's disease-causing genes: <i>parkin</i> , <i>PINK1</i> and <i>DJ-1</i> . <i>European Journal of Neuroscience</i> , 2015, 41, 1113-1125.	2.6	87
14	St John's Wort (<i>Hypericum perforatum</i> L.) Photomedicine: Hypericin-Photodynamic Therapy Induces Metastatic Melanoma Cell Death. <i>PLoS ONE</i> , 2014, 9, e103762.	2.5	83
15	WD40-repeat 47, a microtubule-associated protein, is essential for brain development and autophagy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9308-E9317.	7.1	77
16	At the core of survival: Autophagy delays the onset of both apoptotic and necrotic cell death in a model of ischemic cell injury. <i>Experimental Cell Research</i> , 2011, 317, 1437-1453.	2.6	74
17	TGF- β 's delay skeletal muscle progenitor cell differentiation in an isoform-independent manner. <i>Experimental Cell Research</i> , 2009, 315, 373-384.	2.6	68
18	Measuring autophagosome flux. <i>Autophagy</i> , 2018, 14, 1-12.	9.1	66

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19	Autophagic flux control in neurodegeneration: Progress and precision targeting—Where do we stand?. <i>Progress in Neurobiology</i> , 2017, 153, 64-85.	5.7	65
20	Cell death: A dynamic response concept. <i>Autophagy</i> , 2009, 5, 590-603.	9.1	60
21	Caloric restriction and the precision-control of autophagy: A strategy for delaying neurodegenerative disease progression. <i>Experimental Gerontology</i> , 2016, 83, 97-111.	2.8	57
22	Augmenting brain metabolism to increase macro- and chaperone-mediated autophagy for decreasing neuronal proteotoxicity and aging. <i>Progress in Neurobiology</i> , 2017, 156, 90-106.	5.7	52
23	Spatially and temporally defined lysosomal leakage facilitates mitotic chromosome segregation. <i>Nature Communications</i> , 2020, 11, 229.	12.8	51
24	Altered Mitochondrial Respiration and Other Features of Mitochondrial Function in <i>Parkin</i> -Mutant Fibroblasts from Parkinson's Disease Patients. <i>Parkinson's Disease</i> , 2016, 2016, 1-11.	1.1	40
25	Melatonin improves cardiac and mitochondrial function during doxorubicin-induced cardiotoxicity: A possible role for peroxisome proliferator-activated receptor gamma coactivator 1-alpha and sirtuin activity?. <i>Toxicology and Applied Pharmacology</i> , 2018, 358, 86-101.	2.8	38
26	A global view of standards for open image data formats and repositories. <i>Nature Methods</i> , 2021, 18, 1440-1446.	19.0	36
27	Doxorubicin induces protein ubiquitination and inhibits proteasome activity during cardiotoxicity. <i>Toxicology</i> , 2013, 309, 23-29.	4.2	34
28	Autophagy and the invisible line between life and death. <i>European Journal of Cell Biology</i> , 2016, 95, 598-610.	3.6	32
29	Autophagy is essential for the maintenance of amino acids and ATP levels during acute amino acid starvation in MDAMB231 cells. <i>Cell Biochemistry and Function</i> , 2018, 36, 65-79.	2.9	32
30	Bcl-2 confers survival in cisplatin treated cervical cancer cells: circumventing cisplatin dose-dependent toxicity and resistance. <i>Journal of Translational Medicine</i> , 2015, 13, 328.	4.4	29
31	New Insights Into Autophagy Dysfunction Related to Amyloid Beta Toxicity and Neuropathology in Alzheimer's Disease. <i>International Review of Cell and Molecular Biology</i> , 2018, 336, 321-361.	3.2	29
32	Mitochondrial impairment observed in fibroblasts from South African Parkinson's disease patients with parkin mutations. <i>Biochemical and Biophysical Research Communications</i> , 2014, 447, 334-340.	2.1	27
33	Coordinated autophagy modulation overcomes glioblastoma chemoresistance through disruption of mitochondrial bioenergetics. <i>Scientific Reports</i> , 2018, 8, 10348.	3.3	27
34	Autophagy—A free meal in sickness-associated anorexia. <i>Autophagy</i> , 2016, 12, 727-734.	9.1	26
35	Virtual reality assisted microscopy data visualization and colocalization analysis. <i>BMC Bioinformatics</i> , 2017, 18, 64.	2.6	26
36	Ataxia-Telangiectasia Mutated is located in cardiac mitochondria and impacts oxidative phosphorylation. <i>Scientific Reports</i> , 2019, 9, 4782.	3.3	26

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37	The role of mTOR during cisplatin treatment in an in vitro and ex vivo model of cervical cancer. <i>Toxicology</i> , 2015, 335, 72-78.	4.2	24
38	Use of a Profluorophore for Visualization of the Rupture of Capsules in Self-Healing Coatings. <i>Macromolecular Rapid Communications</i> , 2010, 31, 625-628.	3.9	23
39	Can the interplay between autophagy and apoptosis be targeted as a novel therapy for Parkinson's disease?. <i>Neurobiology of Aging</i> , 2021, 100, 91-105.	3.1	23
40	High Resolution Imaging Study of Interactions between the 37 kDa/67 kDa Laminin Receptor and APP, Beta-Secretase and Gamma-Secretase in Alzheimer's Disease. <i>PLoS ONE</i> , 2014, 9, e100373.	2.5	22
41	Doxorubicin resistance in breast cancer: A novel role for the human protein AHNAK. <i>Biochemical Pharmacology</i> , 2018, 148, 174-183.	4.4	22
42	Nutrient excess and autophagic deficiency: explaining metabolic diseases in obesity. <i>Metabolism: Clinical and Experimental</i> , 2018, 82, 14-21.	3.4	21
43	Daunorubicin therapy is associated with upregulation of E3 ubiquitin ligases in the heart. <i>Experimental Biology and Medicine</i> , 2012, 237, 219-226.	2.4	19
44	On the relevance of precision autophagy flux control <i>in vivo</i> – Points of departure for clinical translation. <i>Autophagy</i> , 2020, 16, 750-762.	9.1	18
45	Neurodegenerative disorders: Dysregulation of a carefully maintained balance?. <i>Experimental Gerontology</i> , 2014, 58, 279-291.	2.8	17
46	Ascribing novel functions to the sarcomeric protein, myosin binding protein H (MyBPH) in cardiac sarcomere contraction. <i>Experimental Cell Research</i> , 2015, 331, 338-351.	2.6	17
47	Autophagy in heart disease: A strong hypothesis for an untouched metabolic reserve. <i>Medical Hypotheses</i> , 2011, 77, 52-57.	1.5	14
48	The Precision Control of Autophagic Flux and Vesicle Dynamics – A Micropattern Approach. <i>Cells</i> , 2018, 7, 94.	4.1	13
49	Adhesion of <i>Lactobacillus reuteri</i> strain Lr1 to equine epithelial cells and competitive exclusion of <i>Clostridium difficile</i> from the gastro-intestinal tract of horses. <i>Annals of Microbiology</i> , 2015, 65, 1087-1096.	2.6	12
50	The palladacycle, BTC2, exhibits anti-breast cancer and breast cancer stem cell activity. <i>Biochemical Pharmacology</i> , 2021, 190, 114598.	4.4	12
51	Neurons die with heightened but functional macro- and chaperone mediated autophagy upon increased amyloid- β induced toxicity with region-specific protection in prolonged intermittent fasting. <i>Experimental Cell Research</i> , 2021, 408, 112840.	2.6	12
52	Melatonin: a protective role against doxorubicin-induced cardiotoxicity. <i>Future Oncology</i> , 2015, 11, 2003-2006.	2.4	11
53	The palladacycle complex AJ-5 induces apoptotic cell death while reducing autophagic flux in rhabdomyosarcoma cells. <i>Cell Death Discovery</i> , 2019, 5, 60.	4.7	11
54	Spermidine and Rapamycin Reveal Distinct Autophagy Flux Response and Cargo Receptor Clearance Profile. <i>Cells</i> , 2021, 10, 95.	4.1	11

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55	Sutherlandia frutescens treatment induces apoptosis and modulates the PI3-kinase pathway in colon cancer cells. South African Journal of Botany, 2015, 100, 20-26.	2.5	10
56	Improved region of interest selection and colocalization analysis in three-dimensional fluorescence microscopy samples using virtual reality. PLoS ONE, 2018, 13, e0201965.	2.5	9
57	Interactions between developmental and adult acclimation have distinct consequences for heat tolerance and heat stress recovery. Journal of Experimental Biology, 2021, 224, .	1.7	9
58	Lactobacillus equigenerosi Strain Le1 Invades Equine Epithelial Cells. Applied and Environmental Microbiology, 2012, 78, 4248-4255.	3.1	8
59	Filamin C: a novel component of the KCNE2 interactome during hypoxia. Cardiovascular Journal of Africa, 2016, 27, 4-11.	0.4	8
60	Mitochondrial event localiser (MEL) to quantitatively describe fission, fusion and depolarisation in the three-dimensional space. PLoS ONE, 2020, 15, e0229634.	2.5	6
61	Wild-type and mutant (G2019S) leucine-rich repeat kinase 2 (LRRK2) associate with subunits of the translocase of outer mitochondrial membrane (TOM) complex. Experimental Cell Research, 2019, 375, 72-79.	2.6	4
62	Autophagic Flux Failure in Neurodegeneration: Identifying the Defect and Compensating Flux Offset. , 0, , .		3
63	Investigating Basal Autophagic Activity in Brain Regions Associated with Neurodegeneration using In Vivo and Ex Vivo Models. , 2017, 07, .		3
64	Dietary Impact on Neuronal Autophagy Control and Brain Health. , 2019, , .		3
65	Monitoring autophagy using super-resolution structured illumination and direct stochastic optical reconstruction microscopy. Methods in Cell Biology, 2021, 165, 139-152.	1.1	3
66	Cancer tolerance, resistance, pathogenicity and virulence: deconstructing the disease state. Future Oncology, 2016, 12, 1369-1380.	2.4	2
67	Synthesis and Cell Interaction of Statistical l-Arginineâ€“Glycineâ€“l-Aspartic Acid Terpolypeptides. Biomacromolecules, 2018, 19, 3058-3066.	5.4	2
68	Regression adjusted colocalisation colour mapping (RACC): A novel biological visual analysis method for qualitative colocalisation analysis of 3D fluorescence micrographs. PLoS ONE, 2019, 14, e0225141.	2.5	2
69	Macroautophagy and chaperone-mediated autophagy in aging. , 2021, , 199-211.		2
70	Supply and Demand Analysis of Autophagy. Methods in Molecular Biology, 2020, 2088, 345-357.	0.9	2
71	Autophagic Flux, Fusion Dynamics, and Cell Death. , 2014, , 39-56.		1
72	A Resistive Biosensor for the Detection of LC3 Protein in Autophagy. IEEE Sensors Journal, 2020, 20, 5119-5129.	4.7	1

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73	Alzheimer's Disease's Molecular Defect, Public Perceptions and Stigma in South Africa. , 2021, , 63-99.		1
74	Role of Autophagy in Heart Disease. , 2014, , 315-328.		0
75	Methods for Measuring Autophagosome Flux's Impact and Relevance. , 2017, , 91-104.		0
76	Correlative Light and Electron Microscopy (CLEM): Bringing Together the Best of Both Worlds to Study Neuronal Autophagy. Neuromethods, 2022, , 135-147.	0.3	0
77	Measuring. Neuromethods, 2022, , 67-78.	0.3	0
78	Cross Talk between Autophagy and Cell Death Pathways. , 2017, , 43-66.		0
79	Favorably against the odds - autophagy control despite advanced amyloid- β toxicity. , 2022, 1, 242-246.		0