Vladimir I Titorenko

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/392321/publications.pdf

Version: 2024-02-01

105
papers

8,627
citations

109321
35
h-index

45317
90
g-index

106
all docs

106
docs citations

106
times ranked

16894
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Metabolomics of Saccharomyces Cerevisiae Using Liquid Chromatography Coupled with Tandem Mass Spectrometry. Journal of Visualized Experiments, 2021, , .	0.3	1
2	Caloric restriction creates a metabolic pattern of chronological aging delay that in budding yeast differs from the metabolic design established by two other geroprotectors. Oncotarget, 2021, 12, 608-625.	1.8	3
3	Caloric restriction causes a distinct reorganization of the lipidome in quiescent and non-quiescent cells of budding yeast. Oncotarget, 2021, 12, 2351-2374.	1.8	2
4	Quantitative Analysis of the Cellular Lipidome of Saccharomyces Cerevisiae Using Liquid Chromatography Coupled with Tandem Mass Spectrometry. Journal of Visualized Experiments, 2020, , .	0.3	2
5	Very-long-chain fatty acid metabolic capacity of 17-beta-hydroxysteroid dehydrogenase type 12 (HSD17B12) promotes replication of hepatitis C virus and related flaviviruses. Scientific Reports, 2020, 10, 4040.	3.3	20
6	Mechanisms that Link Chronological Aging to Cellular Quiescence in Budding Yeast. International Journal of Molecular Sciences, 2020, 21, 4717.	4.1	14
7	Discovery of fifteen new geroprotective plant extracts and identification of cellular processes they affect to prolong the chronological lifespan of budding yeast. Oncotarget, 2020, 11, 2182-2203.	1.8	5
8	Aging and Age-related Disorders: From Molecular Mechanisms to Therapies. International Journal of Molecular Sciences, 2019, 20, 3280.	4.1	1
9	Pairwise combinations of chemical compounds that delay yeast chronological aging through different signaling pathways display synergistic effects on the extent of aging delay. Oncotarget, 2019, 10, 313-338.	1.8	8
10	Mechanisms Through Which Some Mitochondria-Generated Metabolites Act as Second Messengers That Are Essential Contributors to the Aging Process in Eukaryotes Across Phyla. Frontiers in Physiology, 2019, 10, 461.	2.8	8
11	Quiescence Entry, Maintenance, and Exit in Adult Stem Cells. International Journal of Molecular Sciences, 2019, 20, 2158.	4.1	68
12	Mechanisms by which PE21, an extract from the white willow Salix alba, delays chronological aging in budding yeast. Oncotarget, 2019, 10, 5780-5816.	1.8	2
13	Guidelines and recommendations on yeast cell death nomenclature. Microbial Cell, 2018, 5, 4-31.	3.2	158
14	Yeast Cells Exposed to Exogenous Palmitoleic Acid Either Adapt to Stress and Survive or Commit to Regulated Liponecrosis and Die. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-11.	4.0	9
15	Caloric restriction delays yeast chronological aging by remodeling carbohydrate and lipid metabolism, altering peroxisomal and mitochondrial functionalities, and postponing the onsets of apoptotic and liponecrotic modes of regulated cell death. Oncotarget, 2018, 9, 16163-16184.	1.8	18
16	Lipid metabolism and transport define longevity of the yeast Saccharomyces cerevisiae. Frontiers in Bioscience - Landmark, 2018, 23, 1166-1194.	3.0	13
17	Molecular and Cellular Mechanisms of Aging and Age-related Disorders. International Journal of Molecular Sciences, 2018, 19, 2049.	4.1	14
18	Some Metabolites Act as Second Messengers in Yeast Chronological Aging. International Journal of Molecular Sciences, 2018, 19, 860.	4.1	17

#	ARTICLE	IF	CITATIONS
19	Yeast chronological aging is linked to cell cycle regulation. Cell Cycle, 2018, 17, 1035-1036.	2.6	6
20	Mechanisms through which lithocholic acid delays yeast chronological aging under caloric restriction conditions. Oncotarget, 2018, 9, 34945-34971.	1.8	11
21	Diindolylmethane and its halogenated derivatives induce protective autophagy in human prostate cancer cells via induction of the oncogenic protein AEG-1 and activation of AMP-activated protein kinase (AMPK). Cellular Signalling, 2017, 40, 172-182.	3.6	30
22	Mechanisms Underlying the Essential Role of Mitochondrial Membrane Lipids in Yeast Chronological Aging. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-15.	4.0	14
23	Specific changes in mitochondrial lipidome alter mitochondrial proteome and increase the geroprotective efficiency of lithocholic acid in chronologically aging yeast. Oncotarget, 2017, 8, 30672-30691.	1.8	15
24	Caloric restriction extends yeast chronological lifespan via a mechanism linking cellular aging to cell cycle regulation, maintenance of a quiescent state, entry into a non-quiescent state and survival in the non-quiescent state. Oncotarget, 2017, 8, 69328-69350.	1.8	43
25	A laboratory test of evolutionary aging theories. Aging, 2017, 9, 600-601.	3.1	0
26	Six plant extracts delay yeast chronological aging through different signaling pathways. Oncotarget, 2016, 7, 50845-50863.	1.8	14
27	Discovery of plant extracts that greatly delay yeast chronological aging and have different effects on longevity-defining cellular processes. Oncotarget, 2016, 7, 16542-16566.	1.8	20
28	Communications between Mitochondria, the Nucleus, Vacuoles, Peroxisomes, the Endoplasmic Reticulum, the Plasma Membrane, Lipid Droplets, and the Cytosol during Yeast Chronological Aging. Frontiers in Genetics, 2016, 7, 177.	2.3	38
29	Empirical Validation of a Hypothesis of the Hormetic Selective Forces Driving the Evolution of Longevity Regulation Mechanisms. Frontiers in Genetics, 2016, 7, 216.	2.3	10
30	Remodeling of lipid bodies by docosahexaenoic acid in activated microglial cells. Journal of Neuroinflammation, 2016, 13, 116.	7.2	42
31	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
32	Cell-Nonautonomous Mechanisms Underlying Cellular and Organismal Aging. International Review of Cell and Molecular Biology, 2016, 321, 259-297.	3.2	15
33	Mitochondria operate as signaling platforms in yeast aging. Aging, 2016, 8, 212-213.	3.1	15
34	Empirical verification of evolutionary theories of aging. Aging, 2016, 8, 2568-2589.	3.1	9
35	A novel approach to the discovery of anti-tumor pharmaceuticals: searching for activators of liponecrosis. Oncotarget, 2016, 7, 5204-5225.	1.8	17
36	Lithocholic acid induces endoplasmic reticulum stress, autophagy and mitochondrial dysfunction in human prostate cancer cells. PeerJ, 2016, 4, e2445.	2.0	52

#	ARTICLE	IF	CITATIONS
37	The Intricate Interplay between Mechanisms Underlying Aging and Cancer. , 2015, 6, 56-75.		24
38	Mechanisms by Which Different Functional States of Mitochondria Define Yeast Longevity. International Journal of Molecular Sciences, 2015, 16, 5528-5554.	4.1	27
39	Lithocholic bile acid accumulated in yeast mitochondria orchestrates a development of an anti-aging cellular pattern by causing age-related changes in cellular proteome. Cell Cycle, 2015, 14, 1643-1656.	2.6	28
40	Longevity Extension by Phytochemicals. Molecules, 2015, 20, 6544-6572.	3.8	76
41	Inhibition of stress mediated cell death by human lactate dehydrogenase B in yeast. FEMS Yeast Research, 2015, 15, fov032.	2.3	8
42	Using Yeast to Develop Antiâ€Tumor Therapeutic Agents That Cause Liponecrotic Death of Cancer Cells by Remodeling Lipid Metabolism. FASEB Journal, 2015, 29, 885.2.	0.5	0
43	Mechanisms Underlying the Anti-Aging and Anti-Tumor Effects of Lithocholic Bile Acid. International Journal of Molecular Sciences, 2014, 15, 16522-16543.	4.1	32
44	Macromitophagy, neutral lipids synthesis, and peroxisomal fatty acid oxidation protect yeast from â€œliponecrosisâ€; a previously unknown form of programmed cell death. Cell Cycle, 2014, 13, 138-147.	2.6	39
45	Origin and spatiotemporal dynamics of the peroxisomal endomembrane system. Frontiers in Physiology, 2014, 5, 493.	2.8	9
46	Mechanism of liponecrosis, a distinct mode of programmed cell death. Cell Cycle, 2014, 13, 3707-3726.	2.6	31
47	Metabolomic and Lipidomic Analyses of Chronologically Aging Yeast. Methods in Molecular Biology, 2014, 1205, 359-373.	0.9	8
48	Cells with Impaired Mitochondrial H₂O₂Sensing Generate Less^{â€¢}OH Radicals and Live Longer. Antioxidants and Redox Signaling, 2014, 21, 1490-1503.	5.4	19
49	Quasi-programmed aging of budding yeast: a trade-off between programmed processes of cell proliferation, differentiation, stress response, survival and death defines yeast lifespan. Cell Cycle, 2014, 13, 3336-3349.	2.6	34
50	A mitochondrially targeted compound delays aging in yeast through a mechanism linking mitochondrial membrane lipid metabolism to mitochondrial redox biology. Redox Biology, 2014, 2, 305-307.	9.0	27
51	Cell-autonomous mechanisms of chronological aging in the yeast Saccharomyces cerevisiae. Microbial Cell, 2014, 1, 163-178.	3.2	33
52	A network of interorganellar communications underlies cellular aging. IUBMB Life, 2013, 65, 665-674.	3.4	34
53	A novel method for genetic transformation of yeast cells using oligoelectrolyte polymeric nanoscale carriers. BioTechniques, 2013, 54, 35-43.	1.8	15
54	Essential Roles of Peroxisomally Produced and Metabolized Biomolecules in Regulating Yeast Longevity. Sub-Cellular Biochemistry, 2013, 69, 153-167.	2.4	17

#	Article	IF	Citations
55	Macromitophagy is a longevity assurance process that in chronologically aging yeast limited in calorie supply sustains functional mitochondria and maintains cellular lipid homeostasis. Aging, 2013, 5, 234-269.	3.1	57
56	Mitochondrial membrane lipidome defines yeast longevity. Aging, 2013, 5, 551-574.	3.1	35
57	Bile acids induce apoptosis selectively in androgen-dependent and -independent prostate cancer cells. PeerJ, 2013, 1, e122.	2.0	71
58	Caloric Restriction Extends Yeast Chronological Lifespan by Altering a Pattern of Age-Related Changes in Trehalose Concentration. Frontiers in Physiology, 2012, 3, 256.	2.8	67
59	Integration of peroxisomes into an endomembrane system that governs cellular aging. Frontiers in Physiology, 2012, 3, 283.	2.8	51
60	The spatiotemporal dynamics of longevity-defining cellular processes and its modulation by genetic, dietary, and pharmacological anti-aging interventions. Frontiers in Physiology, 2012, 3, 419.	2.8	0
61	Interspecies Chemical Signals Released into the Environment may Create Xenohormetic, Hormetic and Cytostatic Selective Forces that Drive the Ecosystemic Evolution of Longevity Regulation Mechanisms. Dose-Response, 2012, 10, dose-response.1.	1.6	10
62	Lithocholic acid extends longevity of chronologically aging yeast only if added at certain critical periods of their lifespan. Cell Cycle, 2012, 11, 3443-3462.	2.6	41
63	Development of a small antiâ€cancer molecule targeting both the intrinsic and extrinsic pathways of apoptosis. FASEB Journal, 2012, 26, 797.1.	0.5	0
64	A novel antiâ€aging compound extends longevity by remodeling neutral lipid metabolism. FASEB Journal, 2012, 26, 965.1.	0.5	0
65	Lithocholic acid delays yeast aging by altering mitochondrial dynamics. FASEB Journal, 2012, 26, 585.2.	0.5	0
66	Peroxisome Metabolism and Cellular Aging. Traffic, 2011, 12, 252-259.	2.7	145
67	In search of housekeeping pathways that regulate longevity. Cell Cycle, 2011, 10, 3042-3044.	2.6	22
68	Lithocholic bile acid selectively kills neuroblastoma cells, while sparing normal neuronal cells. Oncotarget, 2011, 2, 761-782.	1.8	85
69	A novel antiâ€aging drug extends longevity by remodeling neutral lipid metabolism. FASEB Journal, 2011, 25, 933.4.	0.5	0
70	A novel approach to highâ€throughput discovery of antiâ€aging drugs identifies lithocholic acid as a longevityâ€extending compound. FASEB Journal, 2011, 25, 962.5.	0.5	0
71	Chemical genetic screen identifies lithocholic acid as an anti-aging compound that extends yeast chronological life span in a TOR-independent manner, by modulating housekeeping longevity assurance processes. Aging, 2010, 2, 393-414.	3.1	99
72	Xenohormetic, hormetic and cytostatic selective forces driving longevity at the ecosystemic level. Aging, 2010, 2, 461-470.	3.1	18

#	ARTICLE	IF	CITATIONS
73	Novel antiâ€aging small molecules greatly extend yeast life span by specifically targeting a mechanism underlying the essential role of cellular lipid movement and compartmentalized metabolism in regulating longevity. FASEB Journal, 2010, 24, 474.4.	0.5	0
74	Using a combination of chemical and systems biological approaches for defining a mechanism by which a novel antiâ€aging compound greatly extends yeast longevity. FASEB Journal, 2010, 24, 907.15.	0.5	0
75	By increasing the level of cardiolipin in the inner mitochondrial membrane, a novel antiâ€aging small molecule modulates many longevityâ€and diseaseâ€related processes in mitochondria. FASEB Journal, 2010, 24, 474.5.	0.5	0
76	Effect of calorie restriction on the metabolic history of chronologically aging yeast. Experimental Gerontology, 2009, 44, 555-571.	2.8	116
77	Purification of Mitochondria from Yeast Cells. Journal of Visualized Experiments, 2009, , .	0.3	61
78	A novel function of lipid droplets in regulating longevity. Biochemical Society Transactions, 2009, 37, 1050-1055.	3.4	59
79	The spatiotemporal dynamics of a modular metabolic network that regulates longevity in yeast. FASEB Journal, 2009, 23, 855.1.	0.5	0
80	A mechanism linking lipid metabolism and longevity. FASEB Journal, 2009, 23, 692.1.	0.5	0
81	Chapter 5 Spatiotemporal Dynamics of the ERâ€derived Peroxisomal Endomembrane System. International Review of Cell and Molecular Biology, 2008, 272, 191-244.	3.2	25
82	A signal from inside the peroxisome initiates its division by promoting the remodeling of the peroxisomal membrane. Journal of Cell Biology, 2007, 177, 289-303.	5.2	60
83	Overproduction of translation elongation factor 1-ÃŽÂ± (eEF1A) suppresses the peroxisome biogenesis defect in aHansenula polymorpha pex3mutant via translational read-through. FEMS Yeast Research, 2007, 7, 1114-1125.	2.3	12
84	Peroxisome biogenesis: the peroxisomal endomembrane system and the role of the ER. Journal of Cell Biology, 2006, 174, 11-17.	5.2	85
85	Dynamic ergosterol- and ceramide-rich domains in the peroxisomal membrane serve as an organizing platform for peroxisome fusion. Journal of Cell Biology, 2005, 168, 761-773.	5.2	35
86	The peroxisome. Journal of Cell Biology, 2004, 164, 641-645.	5.2	83
87	A New Definition for the Consensus Sequence of the Peroxisome Targeting Signal Type 2. Journal of Molecular Biology, 2004, 341, 119-134.	4.2	123
88	Peroxisome division in the yeast Yarrowia lipolytica is regulated by a signal from inside the peroxisome. Journal of Cell Biology, 2003, 162, 1255-1266.	5.2	61
89	Acyl-CoA oxidase is imported as a heteropentameric, cofactor-containing complex into peroxisomes of Yarrowia lipolytica. Journal of Cell Biology, 2002, 156, 481-494.	5.2	124
90	RNA interference of peroxisome-related genes in<i>C. elegans</i>: a new model for human peroxisomal disorders. Physiological Genomics, 2002, 10, 79-91.	2.3	49

#	ARTICLE	IF	CITATIONS
91	The life cycle of the peroxisome. Nature Reviews Molecular Cell Biology, 2001, 2, 357-368.	37.0	173
92	Peroxisome Biogenesis in the Yeast Yarrowia lipolytica. Cell Biochemistry and Biophysics, 2000, 32, 21-26.	1.8	34
93	Mutants of theYarrowia lipolytica PEX23Gene Encoding an Integral Peroxisomal Membrane Peroxin Mislocalize Matrix Proteins and Accumulate Vesicles Containing Peroxisomal Matrix and Membrane Proteins. Molecular Biology of the Cell, 2000, 11, 141-152.	2.1	42
94	Fusion of Small Peroxisomal Vesicles in Vitro Reconstructs an Early Step in the in Vivo Multistep Peroxisome Assembly Pathway of Yarrowia lipolytica. Journal of Cell Biology, 2000, 148, 29-44.	5.2	140
95	Peroxisomal Membrane Fusion Requires Two Aaa Family Atpases, Pex1p and Pex6p. Journal of Cell Biology, 2000, 150, 881-886.	5.2	104
96	The endoplasmic reticulum plays an essential role in peroxisome biogenesis. Trends in Biochemical Sciences, 1998, 23, 231-233.	7.5	100
97	Pex20p of the Yeast Yarrowia lipolytica Is Required for the Oligomerization of Thiolase in the Cytosol and for Its Targeting to the Peroxisome. Journal of Cell Biology, 1998, 142, 403-420.	5.2	122
98	Mutants of the Yeast <i>Yarrowia lipolytica</i>Defective in Protein Exit from the Endoplasmic Reticulum Are Also Defective in Peroxisome Biogenesis. Molecular and Cellular Biology, 1998, 18, 2789-2803.	2.3	159
99	The Yarrowia lipolytica Gene PAY5 Encodes a Peroxisomal Integral Membrane Protein Homologous to the Mammalian Peroxisome Assembly Factor PAF-1. Journal of Biological Chemistry, 1996, 271, 20300-20306.	3.4	44
100	Mutations in the PAY5 Gene of the Yeast Yarrowia lipolytica Cause the Accumulation of Multiple Subpopulations of Peroxisomes. Journal of Biological Chemistry, 1996, 271, 20307-20314.	3.4	34
101	Characterization of peroxisome-deficient mutants of Hansenula polymorpha. Current Genetics, 1995, 28, 248-257.	1.7	25
102	The Hansenula polymorpha PER3 Gene Is Essential for the Import of PTS1 Proteins into the Peroxisomal Matrix. Journal of Biological Chemistry, 1995, 270, 17229-17236.	3.4	125
103	Affinity purification of molecular chaperones of the yeast Hansenula polymorpha using immobilized denatured alcohol oxidase. FEBS Letters, 1993, 321, 32-36.	2.8	10
104	Isolation and characterization of peroxisomal protein import (Pimâˆ’) mutants ofHansenula polymorpha. Yeast, 1992, 8, 961-972.	1.7	35
105	Peroxisome biogenesis inHansenula polymorpha: different mutations in genes, essential for peroxisome biogenesis, cause different peroxisomal mutant phenotypes. FEMS Microbiology Letters, 1992, 95, 143-148.	1.8	10