

Vladimir I Titorenko

List of Publications by Year in descending order

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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	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	The life cycle of the peroxisome. <i>Nature Reviews Molecular Cell Biology</i> , 2001, 2, 357-368.	37.0	173
3	Mutants of the Yeast <i>Yarrowia lipolytica</i> Defective in Protein Exit from the Endoplasmic Reticulum Are Also Defective in Peroxisome Biogenesis. <i>Molecular and Cellular Biology</i> , 1998, 18, 2789-2803.	2.3	159
4	Guidelines and recommendations on yeast cell death nomenclature. <i>Microbial Cell</i> , 2018, 5, 4-31.	3.2	158
5	Peroxisome Metabolism and Cellular Aging. <i>Traffic</i> , 2011, 12, 252-259.	2.7	145
6	Fusion of Small Peroxisomal Vesicles in Vitro Reconstructs an Early Step in the in Vivo Multistep Peroxisome Assembly Pathway of <i>Yarrowia lipolytica</i> . <i>Journal of Cell Biology</i> , 2000, 148, 29-44.	5.2	140
7	The <i>Hansenula polymorpha</i> PER3 Gene Is Essential for the Import of PTS1 Proteins into the Peroxisomal Matrix. <i>Journal of Biological Chemistry</i> , 1995, 270, 17229-17236.	3.4	125
8	Acyl-CoA oxidase is imported as a heteropentameric, cofactor-containing complex into peroxisomes of <i>Yarrowia lipolytica</i> . <i>Journal of Cell Biology</i> , 2002, 156, 481-494.	5.2	124
9	A New Definition for the Consensus Sequence of the Peroxisome Targeting Signal Type 2. <i>Journal of Molecular Biology</i> , 2004, 341, 119-134.	4.2	123
10	Pex20p of the Yeast <i>Yarrowia lipolytica</i> Is Required for the Oligomerization of Thiolase in the Cytosol and for Its Targeting to the Peroxisome. <i>Journal of Cell Biology</i> , 1998, 142, 403-420.	5.2	122
11	Effect of calorie restriction on the metabolic history of chronologically aging yeast. <i>Experimental Gerontology</i> , 2009, 44, 555-571.	2.8	116
12	Peroxisomal Membrane Fusion Requires Two Aaa Family Atpases, Pex1p and Pex6p. <i>Journal of Cell Biology</i> , 2000, 150, 881-886.	5.2	104
13	The endoplasmic reticulum plays an essential role in peroxisome biogenesis. <i>Trends in Biochemical Sciences</i> , 1998, 23, 231-233.	7.5	100
14	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. <i>Aging</i> , 2010, 2, 393-414.	3.1	99
15	Peroxisome biogenesis: the peroxisomal endomembrane system and the role of the ER. <i>Journal of Cell Biology</i> , 2006, 174, 11-17.	5.2	85
16	Lithocholic bile acid selectively kills neuroblastoma cells, while sparing normal neuronal cells. <i>Oncotarget</i> , 2011, 2, 761-782.	1.8	85
17	The peroxisome. <i>Journal of Cell Biology</i> , 2004, 164, 641-645.	5.2	83
18	Longevity Extension by Phytochemicals. <i>Molecules</i> , 2015, 20, 6544-6572.	3.8	76

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19	Bile acids induce apoptosis selectively in androgen-dependent and -independent prostate cancer cells. <i>PeerJ</i> , 2013, 1, e122.	2.0	71
20	Quiescence Entry, Maintenance, and Exit in Adult Stem Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2158.	4.1	68
21	Caloric Restriction Extends Yeast Chronological Lifespan by Altering a Pattern of Age-Related Changes in Trehalose Concentration. <i>Frontiers in Physiology</i> , 2012, 3, 256.	2.8	67
22	Peroxisome division in the yeast <i>Yarrowia lipolytica</i> is regulated by a signal from inside the peroxisome. <i>Journal of Cell Biology</i> , 2003, 162, 1255-1266.	5.2	61
23	Purification of Mitochondria from Yeast Cells. <i>Journal of Visualized Experiments</i> , 2009, , .	0.3	61
24	A signal from inside the peroxisome initiates its division by promoting the remodeling of the peroxisomal membrane. <i>Journal of Cell Biology</i> , 2007, 177, 289-303.	5.2	60
25	A novel function of lipid droplets in regulating longevity. <i>Biochemical Society Transactions</i> , 2009, 37, 1050-1055.	3.4	59
26	Macromitophagy is a longevity assurance process that in chronologically aging yeast limited in calorie supply sustains functional mitochondria and maintains cellular lipid homeostasis. <i>Aging</i> , 2013, 5, 234-269.	3.1	57
27	Lithocholic acid induces endoplasmic reticulum stress, autophagy and mitochondrial dysfunction in human prostate cancer cells. <i>PeerJ</i> , 2016, 4, e2445.	2.0	52
28	Integration of peroxisomes into an endomembrane system that governs cellular aging. <i>Frontiers in Physiology</i> , 2012, 3, 283.	2.8	51
29	RNA interference of peroxisome-related genes in <i>C. elegans</i> : a new model for human peroxisomal disorders. <i>Physiological Genomics</i> , 2002, 10, 79-91.	2.3	49
30	The <i>Yarrowia lipolytica</i> Gene PAY5 Encodes a Peroxisomal Integral Membrane Protein Homologous to the Mammalian Peroxisome Assembly Factor PAF-1. <i>Journal of Biological Chemistry</i> , 1996, 271, 20300-20306.	3.4	44
31	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. <i>Oncotarget</i> , 2017, 8, 69328-69350.	1.8	43
32	Mutants of the <i>Yarrowia lipolytica</i> PEX23 Gene Encoding an Integral Peroxisomal Membrane Peroxin Mislocalize Matrix Proteins and Accumulate Vesicles Containing Peroxisomal Matrix and Membrane Proteins. <i>Molecular Biology of the Cell</i> , 2000, 11, 141-152.	2.1	42
33	Remodeling of lipid bodies by docosahexaenoic acid in activated microglial cells. <i>Journal of Neuroinflammation</i> , 2016, 13, 116.	7.2	42
34	Lithocholic acid extends longevity of chronologically aging yeast only if added at certain critical periods of their lifespan. <i>Cell Cycle</i> , 2012, 11, 3443-3462.	2.6	41
35	Macromitophagy, neutral lipids synthesis, and peroxisomal fatty acid oxidation protect yeast from "œliponecrosis" a previously unknown form of programmed cell death. <i>Cell Cycle</i> , 2014, 13, 138-147.	2.6	39
36	Communications between Mitochondria, the Nucleus, Vacuoles, Peroxisomes, the Endoplasmic Reticulum, the Plasma Membrane, Lipid Droplets, and the Cytosol during Yeast Chronological Aging. <i>Frontiers in Genetics</i> , 2016, 7, 177.	2.3	38

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37	Isolation and characterization of peroxisomal protein import (Pim ⁺) mutants of <i>Hansenula polymorpha</i> . <i>Yeast</i> , 1992, 8, 961-972.	1.7	35
38	Dynamic ergosterol- and ceramide-rich domains in the peroxisomal membrane serve as an organizing platform for peroxisome fusion. <i>Journal of Cell Biology</i> , 2005, 168, 761-773.	5.2	35
39	Mitochondrial membrane lipidome defines yeast longevity. <i>Aging</i> , 2013, 5, 551-574.	3.1	35
40	Mutations in the PAY5 Gene of the Yeast <i>Yarrowia lipolytica</i> Cause the Accumulation of Multiple Subpopulations of Peroxisomes. <i>Journal of Biological Chemistry</i> , 1996, 271, 20307-20314.	3.4	34
41	Peroxisome Biogenesis in the Yeast <i>Yarrowia lipolytica</i> . <i>Cell Biochemistry and Biophysics</i> , 2000, 32, 21-26.	1.8	34
42	A network of interorganellar communications underlies cellular aging. <i>IUBMB Life</i> , 2013, 65, 665-674.	3.4	34
43	Quasi-programmed aging of budding yeast: a trade-off between programmed processes of cell proliferation, differentiation, stress response, survival and death defines yeast lifespan. <i>Cell Cycle</i> , 2014, 13, 3336-3349.	2.6	34
44	Cell-autonomous mechanisms of chronological aging in the yeast <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell</i> , 2014, 1, 163-178.	3.2	33
45	Mechanisms Underlying the Anti-Aging and Anti-Tumor Effects of Lithocholic Bile Acid. <i>International Journal of Molecular Sciences</i> , 2014, 15, 16522-16543.	4.1	32
46	Mechanism of liponecrosis, a distinct mode of programmed cell death. <i>Cell Cycle</i> , 2014, 13, 3707-3726.	2.6	31
47	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). <i>Cellular Signalling</i> , 2017, 40, 172-182.	3.6	30
48	Lithocholic bile acid accumulated in yeast mitochondria orchestrates a development of an anti-aging cellular pattern by causing age-related changes in cellular proteome. <i>Cell Cycle</i> , 2015, 14, 1643-1656.	2.6	28
49	A mitochondrially targeted compound delays aging in yeast through a mechanism linking mitochondrial membrane lipid metabolism to mitochondrial redox biology. <i>Redox Biology</i> , 2014, 2, 305-307.	9.0	27
50	Mechanisms by Which Different Functional States of Mitochondria Define Yeast Longevity. <i>International Journal of Molecular Sciences</i> , 2015, 16, 5528-5554.	4.1	27
51	Characterization of peroxisome-deficient mutants of <i>Hansenula polymorpha</i> . <i>Current Genetics</i> , 1995, 28, 248-257.	1.7	25
52	Chapter 5 Spatiotemporal Dynamics of the ER ⁺ -derived Peroxisomal Endomembrane System. <i>International Review of Cell and Molecular Biology</i> , 2008, 272, 191-244.	3.2	25
53	The Intricate Interplay between Mechanisms Underlying Aging and Cancer. , 2015, 6, 56-75.		24
54	In search of housekeeping pathways that regulate longevity. <i>Cell Cycle</i> , 2011, 10, 3042-3044.	2.6	22

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55	Discovery of plant extracts that greatly delay yeast chronological aging and have different effects on longevity-defining cellular processes. <i>Oncotarget</i> , 2016, 7, 16542-16566.	1.8	20
56	Very-long-chain fatty acid metabolic capacity of 17-beta-hydroxysteroid dehydrogenase type 12 (HSD17B12) promotes replication of hepatitis C virus and related flaviviruses. <i>Scientific Reports</i> , 2020, 10, 4040.	3.3	20
57	Cells with Impaired Mitochondrial H ₂ O ₂ Sensing Generate Less [•] OH Radicals and Live Longer. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 1490-1503.	5.4	19
58	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. <i>Oncotarget</i> , 2018, 9, 16163-16184.	1.8	18
59	Xenohormetic, hormetic and cytostatic selective forces driving longevity at the ecosystemic level. <i>Aging</i> , 2010, 2, 461-470.	3.1	18
60	Some Metabolites Act as Second Messengers in Yeast Chronological Aging. <i>International Journal of Molecular Sciences</i> , 2018, 19, 860.	4.1	17
61	Essential Roles of Peroxisomally Produced and Metabolized Biomolecules in Regulating Yeast Longevity. <i>Sub-Cellular Biochemistry</i> , 2013, 69, 153-167.	2.4	17
62	A novel approach to the discovery of anti-tumor pharmaceuticals: searching for activators of liponecrosis. <i>Oncotarget</i> , 2016, 7, 5204-5225.	1.8	17
63	A novel method for genetic transformation of yeast cells using oligoelectrolyte polymeric nanoscale carriers. <i>BioTechniques</i> , 2013, 54, 35-43.	1.8	15
64	Cell-Nonautonomous Mechanisms Underlying Cellular and Organismal Aging. <i>International Review of Cell and Molecular Biology</i> , 2016, 321, 259-297.	3.2	15
65	Mitochondria operate as signaling platforms in yeast aging. <i>Aging</i> , 2016, 8, 212-213.	3.1	15
66	Specific changes in mitochondrial lipidome alter mitochondrial proteome and increase the geroprotective efficiency of lithocholic acid in chronologically aging yeast. <i>Oncotarget</i> , 2017, 8, 30672-30691.	1.8	15
67	Six plant extracts delay yeast chronological aging through different signaling pathways. <i>Oncotarget</i> , 2016, 7, 50845-50863.	1.8	14
68	Mechanisms Underlying the Essential Role of Mitochondrial Membrane Lipids in Yeast Chronological Aging. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-15.	4.0	14
69	Molecular and Cellular Mechanisms of Aging and Age-related Disorders. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2049.	4.1	14
70	Mechanisms that Link Chronological Aging to Cellular Quiescence in Budding Yeast. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4717.	4.1	14
71	Lipid metabolism and transport define longevity of the yeast <i>Saccharomyces cerevisiae</i> . <i>Frontiers in Bioscience - Landmark</i> , 2018, 23, 1166-1194.	3.0	13
72	Overproduction of translation elongation factor 1-ÅŽ± (eEF1A) suppresses the peroxisome biogenesis defect in a <i>Hansenula polymorpha</i> pex3 mutant via translational read-through. <i>FEMS Yeast Research</i> , 2007, 7, 1114-1125.	2.3	12

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73	Mechanisms through which lithocholic acid delays yeast chronological aging under caloric restriction conditions. <i>Oncotarget</i> , 2018, 9, 34945-34971.	1.8	11
74	Peroxisome biogenesis in <i>Hansenula polymorpha</i> : different mutations in genes, essential for peroxisome biogenesis, cause different peroxisomal mutant phenotypes. <i>FEMS Microbiology Letters</i> , 1992, 95, 143-148.	1.8	10
75	Affinity purification of molecular chaperones of the yeast <i>Hansenula polymorpha</i> using immobilized denatured alcohol oxidase. <i>FEBS Letters</i> , 1993, 321, 32-36.	2.8	10
76	Interspecies Chemical Signals Released into the Environment may Create Xenohormetic, Hormetic and Cytostatic Selective Forces that Drive the Ecosystemic Evolution of Longevity Regulation Mechanisms. <i>Dose-Response</i> , 2012, 10, dose-response.1.	1.6	10
77	Empirical Validation of a Hypothesis of the Hormetic Selective Forces Driving the Evolution of Longevity Regulation Mechanisms. <i>Frontiers in Genetics</i> , 2016, 7, 216.	2.3	10
78	Origin and spatiotemporal dynamics of the peroxisomal endomembrane system. <i>Frontiers in Physiology</i> , 2014, 5, 493.	2.8	9
79	Yeast Cells Exposed to Exogenous Palmitoleic Acid Either Adapt to Stress and Survive or Commit to Regulated Liponecrosis and Die. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-11.	4.0	9
80	Empirical verification of evolutionary theories of aging. <i>Aging</i> , 2016, 8, 2568-2589.	3.1	9
81	Metabolomic and Lipidomic Analyses of Chronologically Aging Yeast. <i>Methods in Molecular Biology</i> , 2014, 1205, 359-373.	0.9	8
82	Inhibition of stress mediated cell death by human lactate dehydrogenase B in yeast. <i>FEMS Yeast Research</i> , 2015, 15, fov032.	2.3	8
83	Pairwise combinations of chemical compounds that delay yeast chronological aging through different signaling pathways display synergistic effects on the extent of aging delay. <i>Oncotarget</i> , 2019, 10, 313-338.	1.8	8
84	Mechanisms Through Which Some Mitochondria-Generated Metabolites Act as Second Messengers That Are Essential Contributors to the Aging Process in Eukaryotes Across Phyla. <i>Frontiers in Physiology</i> , 2019, 10, 461.	2.8	8
85	Yeast chronological aging is linked to cell cycle regulation. <i>Cell Cycle</i> , 2018, 17, 1035-1036.	2.6	6
86	Discovery of fifteen new geroprotective plant extracts and identification of cellular processes they affect to prolong the chronological lifespan of budding yeast. <i>Oncotarget</i> , 2020, 11, 2182-2203.	1.8	5
87	Caloric restriction creates a metabolic pattern of chronological aging delay that in budding yeast differs from the metabolic design established by two other geroprotectors. <i>Oncotarget</i> , 2021, 12, 608-625.	1.8	3
88	Quantitative Analysis of the Cellular Lipidome of <i>Saccharomyces Cerevisiae</i> Using Liquid Chromatography Coupled with Tandem Mass Spectrometry. <i>Journal of Visualized Experiments</i> , 2020, . .	0.3	2
89	Mechanisms by which PE21, an extract from the white willow <i>Salix alba</i> , delays chronological aging in budding yeast. <i>Oncotarget</i> , 2019, 10, 5780-5816.	1.8	2
90	Caloric restriction causes a distinct reorganization of the lipidome in quiescent and non-quiescent cells of budding yeast. <i>Oncotarget</i> , 2021, 12, 2351-2374.	1.8	2

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91	Aging and Age-related Disorders: From Molecular Mechanisms to Therapies. International Journal of Molecular Sciences, 2019, 20, 3280.	4.1	1
92	Quantitative Metabolomics of <i>Saccharomyces Cerevisiae</i> Using Liquid Chromatography Coupled with Tandem Mass Spectrometry. Journal of Visualized Experiments, 2021, , .	0.3	1
93	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
94	The spatiotemporal dynamics of a modular metabolic network that regulates longevity in yeast. FASEB Journal, 2009, 23, 855.1.	0.5	0
95	A mechanism linking lipid metabolism and longevity. FASEB Journal, 2009, 23, 692.1.	0.5	0
96	Novel anti-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
97	Using a combination of chemical and systems biological approaches for defining a mechanism by which a novel anti-aging compound greatly extends yeast longevity. FASEB Journal, 2010, 24, 907.15.	0.5	0
98	By increasing the level of cardiolipin in the inner mitochondrial membrane, a novel anti-aging small molecule modulates many longevity- and disease-related processes in mitochondria. FASEB Journal, 2010, 24, 474.5.	0.5	0
99	A novel anti-aging drug extends longevity by remodeling neutral lipid metabolism. FASEB Journal, 2011, 25, 933.4.	0.5	0
100	A novel approach to high-throughput discovery of anti-aging drugs identifies lithocholic acid as a longevity-extending compound. FASEB Journal, 2011, 25, 962.5.	0.5	0
101	Development of a small anti-cancer molecule targeting both the intrinsic and extrinsic pathways of apoptosis. FASEB Journal, 2012, 26, 797.1.	0.5	0
102	A novel anti-aging compound extends longevity by remodeling neutral lipid metabolism. FASEB Journal, 2012, 26, 965.1.	0.5	0
103	Lithocholic acid delays yeast aging by altering mitochondrial dynamics. FASEB Journal, 2012, 26, 585.2.	0.5	0
104	Using Yeast to Develop Anti-Tumor Therapeutic Agents That Cause Liponecrotic Death of Cancer Cells by Remodeling Lipid Metabolism. FASEB Journal, 2015, 29, 885.2.	0.5	0
105	A laboratory test of evolutionary aging theories. Aging, 2017, 9, 600-601.	3.1	0