

Lars-Oliver Klotz

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2999360/lars-oliver-klotz-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

128
papers

9,811
citations

50
h-index

98
g-index

145
ext. papers

10,701
ext. citations

5.4
avg, IF

6.05
L-index

#	Paper	IF	Citations
128	A coupled enzyme assay for detection of selenium-binding protein 1 (SELENBP1) methanethiol oxidase (MTO) activity in mature enterocytes. <i>Redox Biology</i> , 2021 , 43, 101972	11.3	0
127	Activation of Nrf2 by Electrophiles Is Largely Independent of the Selenium Status of HepG2 Cells. <i>Antioxidants</i> , 2021 , 10,	7.1	1
126	FOXO transcription factors in antioxidant defense. <i>IUBMB Life</i> , 2021 ,	4.7	3
125	Selenite-induced Expression of a Caenorhabditis elegans Pro-aging Factor and Ortholog of Human Selenium-binding Protein 1. <i>Current Nutraceuticals</i> , 2020 , 1, 73-79	0.7	1
124	The GID ubiquitin ligase complex is a regulator of AMPK activity and organismal lifespan. <i>Autophagy</i> , 2020 , 16, 1618-1634	10.2	19
123	FoxO transcription factors in the control of redox homeostasis and fuel metabolism 2020 , 315-330		2
122	A Caenorhabditis elegans ortholog of human selenium-binding protein 1 is a pro-aging factor protecting against selenite toxicity. <i>Redox Biology</i> , 2020 , 28, 101323	11.3	8
121	Sugar-derived AGEs accelerate pharyngeal pumping rate and increase the lifespan of. <i>Free Radical Research</i> , 2019 , 53, 1056-1067	4	5
120	FOXO Transcription Factors: Regulators of Metabolism and Stress Resistance. <i>Proceedings (mdpi)</i> , 2019 , 11, 11	0.3	
119	Label-free molecular mapping and assessment of glycogen in C. elegans. <i>Analyst, The</i> , 2019 , 144, 2367-2374		3
118	Selenium-binding protein 1 (SELENBP1) is a marker of mature adipocytes. <i>Redox Biology</i> , 2019 , 20, 489-495		20
117	Differential capability of metabolic substrates to promote hepatocellular lipid accumulation. <i>European Journal of Nutrition</i> , 2019 , 58, 3023-3034	5.2	5
116	Nuclear trapping of inactive FOXO1 by the Nrf2 activator diethyl maleate. <i>Redox Biology</i> , 2019 , 20, 19-27	11.3	8
115	FOXO1 cysteine-612 mediates stimulatory effects of the coregulators CBP and PGC1 α on FOXO1 basal transcriptional activity. <i>Free Radical Biology and Medicine</i> , 2018 , 118, 98-107	7.8	6
114	Insulin suppresses the production of fibroblast growth factor 23 (FGF23). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5804-5809	11.5	56
113	Posttranscriptional regulation of FOXO expression: microRNAs and beyond. <i>British Journal of Pharmacology</i> , 2017 , 174, 1514-1532	8.6	34
112	Non-linear impact of glutathione depletion on C. elegans life span and stress resistance. <i>Redox Biology</i> , 2017 , 11, 502-515	11.3	40

111	Multifaceted functions of the forkhead box transcription factors FoxO1 and FoxO3 in skin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 1057-1064	4	23
110	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017 , 13, 94-162	11.3	185
109	Flavonoids as Putative Inducers of the Transcription Factors Nrf2, FoxO, and PPAR. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 4397340	6.7	44
108	Selenium for Prevention and Mitigation of Oxidative Stress-related Diseases in the Gastrointestinal Tract 2017 , 229-242		1
107	Cellular adaptation to xenobiotics: Interplay between xenosensors, reactive oxygen species and FOXO transcription factors. <i>Redox Biology</i> , 2017 , 13, 646-654	11.3	79
106	Peroxynitrite: From interception to signaling. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 595, 153-60	4.1	34
105	Selenoproteins: Antioxidant selenoenzymes and beyond. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 595, 113-9	4.1	153
104	Cellular Aging and Tumor Regulation. <i>Healthy Ageing and Longevity</i> , 2016 , 187-201	0.5	
103	Stress and biological aging: A double-edged sword. <i>Zeitschrift Fur Gerontologie Und Geriatrie</i> , 2015 , 48, 505-10	2.7	3
102	An Overview of Free Radicals as Causes and Consequences of Toxicity. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2015 , 21-27		
101	Reactive Oxygen Species as Initiators and Mediators of Cellular Signaling Processes. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2015 , 149-171		1
100	Redox regulation of FoxO transcription factors. <i>Redox Biology</i> , 2015 , 6, 51-72	11.3	392
99	Free radicals and related reactive species as mediators of tissue injury and disease: implications for Health. <i>Critical Reviews in Toxicology</i> , 2015 , 45, 765-98	5.7	171
98	On the Biochemistry of Antioxidants: Current Aspects. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2015 , 383-396		1
97	UV-induced Signaling: Role of Reactive Oxygen Species. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2015 , 335-345		
96	Acute and long-term effects of arsenite in HepG2 cells: modulation of insulin signaling. <i>BioMetals</i> , 2014 , 27, 317-32	3.4	26
95	Methylated pentavalent arsenic metabolites are bifunctional inducers, as they induce cytochrome P450 1A1 and NAD(P)H:quinone oxidoreductase through AhR- and Nrf2-dependent mechanisms. <i>Free Radical Biology and Medicine</i> , 2014 , 67, 171-87	7.8	21
94	Insulin-like modulation of Akt/FoxO signaling by copper ions is independent of insulin receptor. <i>Archives of Biochemistry and Biophysics</i> , 2014 , 558, 42-50	4.1	16

93	1,4-naphthoquinones: from oxidative damage to cellular and inter-cellular signaling. <i>Molecules</i> , 2014 , 19, 14902-18	4.8	136
92	Modulation of cellular thiol status affects FoxO activity and life span. <i>Free Radical Biology and Medicine</i> , 2014 , 75 Suppl 1, S53	7.8	1
91	Oxidative Stress, Antioxidants, and Chemoprevention: On the Role of Oxidant-Induced Signaling in Cellular Adaptation 2014 , 119-146		
90	Arsenite-induced stress signaling: modulation of the phosphoinositide 3Kinase/Akt/FoxO signaling cascade. <i>Redox Biology</i> , 2013 , 1, 104-9	11.3	20
89	Posttranscriptional regulation of connexin-43 expression. <i>Archives of Biochemistry and Biophysics</i> , 2012 , 524, 23-9	4.1	25
88	Inhibition of heme oxygenase-1 partially reverses the arsenite-mediated decrease of CYP1A1, CYP1A2, CYP3A23, and CYP3A2 catalytic activity in isolated rat hepatocytes. <i>Drug Metabolism and Disposition</i> , 2012 , 40, 504-14	4	12
87	Detection of a functional xenobiotic response element in a widely employed FoxO-responsive reporter construct. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 516, 138-45	4.1	10
86	Ceruloplasmin expression in rat liver cells is attenuated by insulin: role of FoxO transcription factors. <i>Hormone and Metabolic Research</i> , 2011 , 43, 268-74	3.1	17
85	Linking Alzheimer's disease to insulin resistance: the FoxO response to oxidative stress. <i>Molecular Psychiatry</i> , 2010 , 15, 1046-52	15.1	104
84	Loss of gap junctional intercellular communication in rat lung epithelial cells exposed to carbon or silica-based nanoparticles. <i>Biological Chemistry</i> , 2010 , 391, 1333-9	4.5	15
83	Role of HuR and p38MAPK in ultraviolet B-induced post-transcriptional regulation of COX-2 expression in the human keratinocyte cell line HaCaT. <i>Journal of Biological Chemistry</i> , 2010 , 285, 3896-3904	5.4	47
82	1,4-Naphthoquinones as inducers of oxidative damage and stress signaling in HaCaT human keratinocytes. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 496, 93-100	4.1	95
81	Epigallocatechin gallate-induced modulation of FoxO signaling in mammalian cells and <i>C. elegans</i> : FoxO stimulation is masked via PI3K/Akt activation by hydrogen peroxide formed in cell culture. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 501, 58-64	4.1	74
80	Signal transduction, receptors, mediators and genes: younger than ever - the 13th meeting of the Signal Transduction Society focused on aging and immunology. <i>Cell Communication and Signaling</i> , 2010 , 8, 2	7.5	1
79	The proteasome is an integral part of solar ultraviolet a radiation-induced gene expression. <i>Journal of Biological Chemistry</i> , 2009 , 284, 30076-86	5.4	52
78	Regulation of glucose-6-phosphatase gene expression by insulin and metformin. <i>Hormone and Metabolic Research</i> , 2009 , 41, 730-5	3.1	21
77	Heavy metal ion-induced insulin-mimetic signaling. <i>Redox Report</i> , 2009 , 14, 141-6	5.9	17
76	HuR regulates gap junctional intercellular communication by controlling beta-catenin levels and adherens junction integrity. <i>Hepatology</i> , 2009 , 50, 1567-76	11.2	36

75	Nickel and copper ion-induced stress signaling in human hepatoma cells: analysis of phosphoinositide 3Kinase/Akt signaling. <i>BioMetals</i> , 2009 , 22, 307-16	3.4	24
74	Loss of gap junctional intercellular communication in rat lung epithelial cells exposed to quartz particles. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 390, 44-7	3.4	8
73	Zinc fingers as biologic redox switches?. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 1015-27	8.4	84
72	Stimulation of selenoprotein P promoter activity in hepatoma cells by FoxO1a transcription factor. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 365, 316-21	3.4	65
71	Thalidomide resistance is based on the capacity of the glutathione-dependent antioxidant defense. <i>Molecular Pharmaceutics</i> , 2008 , 5, 1138-44	5.6	32
70	Selenoprotein P expression is controlled through interaction of the coactivator PGC-1alpha with FoxO1a and hepatocyte nuclear factor 4alpha transcription factors. <i>Hepatology</i> , 2008 , 48, 1998-2006	11.2	94
69	Modulation and Determination of Cellular Glutathione Concentrations 2008 , 45-54		
68	Nitrotyrosine and protein carbonyls are equally distributed in HT22 cells after nitrosative stress. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 773-86	7.8	34
67	Protein modification elicited by oxidized low-density lipoprotein (LDL) in endothelial cells: protection by (-)-epicatechin. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 955-70	7.8	57
66	Lightening up the UV response by identification of the arylhydrocarbon receptor as a cytoplasmatic target for ultraviolet B radiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 8851-6	11.5	339
65	Cellular responses to nanoparticles: Target structures and mechanisms. <i>Nanotoxicology</i> , 2007 , 1, 52-71	5.3	380
64	Stimulation of phosphoinositide 3-kinase/Akt signaling by copper and zinc ions: mechanisms and consequences. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 463, 175-82	4.1	99
63	Epidermal growth factor- and stress-induced loss of gap junctional communication is mediated by ERK-1/ERK-2 but not ERK-5 in rat liver epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 364, 313-7	3.4	14
62	Extracellular generation of hydrogen peroxide is responsible for activation of EGF receptor by ultraviolet A radiation. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 1478-87	7.8	25
61	Chemokine receptors in head and neck cancer: association with metastatic spread and regulation during chemotherapy. <i>International Journal of Cancer</i> , 2006 , 118, 2147-57	7.5	84
60	Singlet oxygen inactivates protein tyrosine phosphatase-1B by oxidation of the active site cysteine. <i>Biological Chemistry</i> , 2006 , 387, 1399-404	4.5	35
59	Modulation of FoxO signaling in human hepatoma cells by exposure to copper or zinc ions. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 454, 107-13	4.1	52
58	Activation of ErbB2 by 2-methyl-1,4-naphthoquinone (menadione) in human keratinocytes: role of EGFR and protein tyrosine phosphatases. <i>FEBS Letters</i> , 2006 , 580, 1859-64	3.8	24

57	Rac upregulates tissue inhibitor of metalloproteinase-1 expression by redox-dependent activation of extracellular signal-regulated kinase signaling. <i>FEBS Journal</i> , 2006 , 273, 4754-69	5-7	12
56	Loss of the tyrosyl radical in mouse ribonucleotide reductase by (-)-epicatechin. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 326, 614-7	3-4	2
55	Quinone-induced Cdc25A inhibition causes ERK-dependent connexin phosphorylation. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 327, 1016-23	3-4	21
54	Dicumarol is a potent reversible inhibitor of gap junctional intercellular communication. <i>Archives of Biochemistry and Biophysics</i> , 2005 , 434, 241-7	4-1	14
53	Phosphoinositide 3-kinase signaling in the cellular response to oxidative stress. <i>Biological Chemistry</i> , 2005 , 386, 207-16	4-5	74
52	Doxorubicin induces EGF receptor-dependent downregulation of gap junctional intercellular communication in rat liver epithelial cells. <i>Biological Chemistry</i> , 2005 , 386, 217-23	4-5	23
51	Signaling effects of menadione: from tyrosine phosphatase inactivation to connexin phosphorylation. <i>Methods in Enzymology</i> , 2004 , 378, 258-72	1-7	23
50	Role of myoglobin in the antioxidant defense of the heart. <i>FASEB Journal</i> , 2004 , 18, 1156-8	0-9	120
49	Different susceptibility of malignant versus nonmalignant human T cells toward ultraviolet A-1 radiation-induced apoptosis. <i>Journal of Investigative Dermatology</i> , 2004 , 122, 477-83	4-3	20
48	Singlet oxygen-induced attenuation of growth factor signaling: possible role of ceramides. <i>Free Radical Research</i> , 2004 , 38, 729-37	4	34
47	Selenoprotein P protects low-density lipoprotein against oxidation. <i>Free Radical Research</i> , 2004 , 38, 123-8		83
46	Contribution of UVB and UVA to UV-dependent stimulation of cyclooxygenase-2 expression in artificial epidermis. <i>Photochemical and Photobiological Sciences</i> , 2004 , 3, 257-62	4-2	44
45	Irradiation of cells with ultraviolet-A (320-400 nm) in the presence of cell culture medium elicits biological effects due to extracellular generation of hydrogen peroxide. <i>Free Radical Research</i> , 2003 , 37, 391-7	4	37
44	Role of copper, zinc, selenium and tellurium in the cellular defense against oxidative and nitrosative stress. <i>Journal of Nutrition</i> , 2003 , 133, 1448S-51S	4-1	198
43	Singlet oxygen-induced signaling effects in mammalian cells. <i>Photochemical and Photobiological Sciences</i> , 2003 , 2, 88-94	4-2	129
42	Defenses against peroxynitrite: selenocompounds and flavonoids. <i>Toxicology Letters</i> , 2003 , 140-141, 125-32	4-4	121
41	Selenenyl iodide: a new substrate for mammalian thioredoxin reductase. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 2848-52	3-9	19
40	Identification of cytosolic leucyl aminopeptidase (EC 3.4.11.1) as the major cysteinylglycine-hydrolysing activity in rat liver. <i>Biological Chemistry</i> , 2003 , 384, 213-8	4-5	33

39	Evaluation of sulfur, selenium and tellurium catalysts with antioxidant potential. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 4317-22	3.9	73
38	Functional analysis of the glutathione S-transferase 3 from <i>Onchocerca volvulus</i> (Ov-GST-3): a parasite GST confers increased resistance to oxidative stress in <i>Caenorhabditis elegans</i> . <i>Journal of Molecular Biology</i> , 2003 , 325, 25-37	6.5	46
37	Amphiphilic properties of (-)-epicatechin and their significance for protection of cells against peroxynitrite. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 307, 69-73	3.4	52
36	Critical role of L-arginine in endothelial cell survival during oxidative stress. <i>Circulation</i> , 2003 , 107, 2607-14.	14.7	59
35	Epidermal growth factor receptor is a common mediator of quinone-induced signaling leading to phosphorylation of connexin-43: role of glutathione and tyrosine phosphatases. <i>Journal of Biological Chemistry</i> , 2003 , 278, 38360-7	5.4	91
34	Modifications of glyceraldehyde-3-phosphate dehydrogenase induced by increasing concentrations of peroxynitrite: early recognition by 20S proteasome. <i>Biological Chemistry</i> , 2003 , 384, 237-41	4.5	53
33	Peroxyntirite signaling: receptor tyrosine kinases and activation of stress-responsive pathways. <i>Free Radical Biology and Medicine</i> , 2002 , 33, 737-43	7.8	107
32	Comparing nitrosative versus oxidative stress toward zinc finger-dependent transcription. Unique role for NO. <i>Journal of Biological Chemistry</i> , 2002 , 277, 13294-301	5.4	53
31	Selenoprotein P. <i>Methods in Enzymology</i> , 2002 , 347, 121-5	1.7	6
30	Selenium and the Protection Against Peroxynitrite 2002 , 71-76		
29	Reversible conversion of nitroxyl anion to nitric oxide. <i>Methods in Enzymology</i> , 2002 , 349, 101-6	1.7	4
28	Oxidant-induced signaling: effects of peroxynitrite and singlet oxygen. <i>Biological Chemistry</i> , 2002 , 383, 443-56	4.5	62
27	Copper ions strongly activate the phosphoinositide-3-kinase/Akt pathway independent of the generation of reactive oxygen species. <i>Archives of Biochemistry and Biophysics</i> , 2002 , 397, 232-9	4.1	96
26	2-Methyl-1,4-naphthoquinone, vitamin K(3), decreases gap-junctional intercellular communication via activation of the epidermal growth factor receptor/extracellular signal-regulated kinase cascade. <i>Cancer Research</i> , 2002 , 62, 4922-8	10.1	55
25	Protein oxidation and proteolysis by the nonradical oxidants singlet oxygen or peroxynitrite. <i>Free Radical Biology and Medicine</i> , 2001 , 30, 1243-53	7.8	101
24	Gadd153 sensitizes cells to endoplasmic reticulum stress by down-regulating Bcl2 and perturbing the cellular redox state. <i>Molecular and Cellular Biology</i> , 2001 , 21, 1249-59	4.8	1516
23	Polyphenols of cocoa: inhibition of mammalian 15-lipoxygenase. <i>Biological Chemistry</i> , 2001 , 382, 1687-96.	14.5	101
22	High efficiency of 5-aminolevulinate-photodynamic treatment using UVA irradiation. <i>Carcinogenesis</i> , 2001 , 22, 879-83	4.6	21

21	Epicatechin selectively prevents nitration but not oxidation reactions of peroxynitrite. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 285, 782-7	3.4	80
20	(-)-Epicatechin inhibits nitration and dimerization of tyrosine in hydrophilic as well as hydrophobic environments. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 289, 1334-8	3.4	32
19	Mitogen-activated protein kinase activation by singlet oxygen and ultraviolet A. <i>Methods in Enzymology</i> , 2000 , 319, 130-43	1.7	26
18	Peroxynitrite activates the phosphoinositide 3-kinase/Akt pathway in human skin primary fibroblasts. <i>Biochemical Journal</i> , 2000 , 352, 219	3.8	46
17	Peroxynitrite activates the phosphoinositide 3-kinase/Akt pathway in human skin primary fibroblasts. <i>Biochemical Journal</i> , 2000 , 352, 219-225	3.8	110
16	Signaling by Singlet Oxygen in Biological Systems 2000 , 3-20		6
15	Reactive oxygen species (ROS)-induced ROS release: a new phenomenon accompanying induction of the mitochondrial permeability transition in cardiac myocytes. <i>Journal of Experimental Medicine</i> , 2000 , 192, 1001-14	16.6	1109
14	Mitogen-activated protein kinase (p38-, JNK-, ERK-) activation pattern induced by extracellular and intracellular singlet oxygen and UVA. <i>FEBS Journal</i> , 1999 , 260, 917-22		176
13	Activation pattern of mitogen-activated protein kinases elicited by peroxynitrite: attenuation by selenite supplementation. <i>FEBS Letters</i> , 1999 , 448, 301-3	3.8	107
12	Defenses against peroxynitrite. <i>Methods in Enzymology</i> , 1999 , 301, 301-11	1.7	33
11	A New Function for Selenoproteins: Peroxynitrite Reduction 1999 , 87-101		
10	Protection by organotellurium compounds against peroxynitrite-mediated oxidation and nitration reactions. <i>Biochemical Pharmacology</i> , 1998 , 55, 817-23	6	62
9	Activation of JNK and P38 but not ERK map kinases in human skin cells by 5-aminolevulinate PDT, UVA and singlet oxygen. <i>Journal of Dermatological Science</i> , 1998 , 16, S153	4.3	2
8	Central role of Ferrous/Ferric iron in the ultraviolet B irradiation-mediated signaling pathway leading to increased interstitial collagenase (matrix-degrading metalloprotease (MMP)-1) and stromelysin-1 (MMP-3) mRNA levels in cultured human dermal fibroblasts. <i>Journal of Biological Chemistry</i> , 1998 , 273, 5273-87	5.4	177
7	Protection against peroxynitrite by selenoproteins. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1998 , 53, 228-32	1.7	35
6	Glutathione peroxidase protects against peroxynitrite-mediated oxidations. A new function for selenoproteins as peroxynitrite reductase. <i>Journal of Biological Chemistry</i> , 1997 , 272, 27812-7	5.4	368
5	Evidence that singlet oxygen-induced human T helper cell apoptosis is the basic mechanism of ultraviolet-A radiation phototherapy. <i>Journal of Experimental Medicine</i> , 1997 , 186, 1763-8	16.6	248
4	Oxidative modification and nitration of human low-density lipoproteins by the reaction of hypochlorous acid with nitrite. <i>Archives of Biochemistry and Biophysics</i> , 1997 , 343, 254-9	4.1	92

3	Singlet oxygen mediates the activation of JNK by UVA radiation in human skin fibroblasts. <i>FEBS Letters</i> , 1997 , 408, 289-91	3.8	77
2	Reactivity of lipophilic diSchiff-Base coordinated copper in rat hepatocytes. <i>Biochemical Pharmacology</i> , 1996 , 51, 919-29	6	6
1	Cellular Generation of Oxidants: Relation to Oxidative Stress45-61		8