Joris Winderickx

List of Publications by Year
in descending order

126 papers	8,901 citations	34105 52 h-index	48315 88 g-index
138 all docs	138 docs citations	138 times ranked	9300 citing authors

#	Article	IF	Citations
1	Glucose-sensing and -signalling mechanisms in yeast. FEMS Yeast Research, 2002, 2, 183-201.	2.3	341
2	A Saccharomyces cerevisiae G-protein coupled receptor, Gpr1, is specifically required for glucose activation of the cAMP pathway during the transition to growth on glucose. Molecular Microbiology, 1999, 32, 1002-1012.	2.5	339
3	A network-based approach to identify substrate classes of bacterial glycosyltransferases. BMC Genomics, 2014, 15, 349.	2.8	337
4	Expression Levels of the Yeast Alcohol Acetyltransferase Genes ATF1 , Lg-ATF1 , and ATF2 Control the Formation of a Broad Range of Volatile Esters. Applied and Environmental Microbiology, 2003, 69, 5228-5237.	3.1	328
5	Polymorphism in red photopigment underlies variation in colour matching. Nature, 1992, 356, 431-433.	27.8	299
6	Glucose-sensing mechanisms in eukaryotic cells. Trends in Biochemical Sciences, 2001, 26, 310-317.	7.5	278
7	TOR and PKA Signaling Pathways Converge on the Protein Kinase Rim15 to Control Entry into G0. Molecular Cell, 2003, 12, 1607-1613.	9.7	277
8	Cytosolic pH is a second messenger for glucose and regulates the PKA pathway through V-ATPase. EMBO Journal, 2010, 29, 2515-2526.	7.8	257
9	Glucose-induced cAMP signalling in yeast requires both a G-protein coupled receptor system for extracellular glucose detection and a separable hexose kinase-dependent sensing process. Molecular Microbiology, 2000, 38, 348-358.	2.5	205
10	Neuron-to-neuron wild-type Tau protein transfer through a trans-synaptic mechanism: relevance to sporadic tauopathies. Acta Neuropathologica Communications, 2014, 2, 14.	5.2	203
11	Life in the midst of scarcity: adaptations to nutrient availability in Saccharomyces cerevisiae. Current Genetics, 2010, 56, 1-32.	1.7	189
12	The AMPK/SNF1/SnRK1 fuel gauge and energy regulator: structure, function and regulation. FEBS Journal, 2011, 278, 3978-3990.	4.7	184
13	Yeast as a model for medical and medicinal research. Trends in Pharmacological Sciences, 2005, 26, 265-273.	8.7	175
14	PKA and Sch9 control a molecular switch important for the proper adaptation to nutrient availability. Molecular Microbiology, 2005, 55, 862-880.	2.5	170
15	Guidelines and recommendations on yeast cell death nomenclature. Microbial Cell, 2018, 5, 4-31.	3.2	158
16	The Novel Yeast PAS Kinase Rim15 Orchestrates G0-Associated Antioxidant Defense Mechanisms. Cell Cycle, 2004, 3, 460-466.	2.6	154
17	The Gap1 general amino acid permease acts as an amino acid sensor for activation of protein kinase A targets in the yeast Saccharomyces cerevisiae. Molecular Microbiology, 2003, 50, 911-929.	2.5	141
18	Structure, expression, and functional analysis of the hexokinase gene family in rice (Oryza sativa L.). Planta, 2006, 224, 598-611.	3.2	133

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19	Glucose and sucrose: hazardous fast-food for industrial yeast?. Trends in Biotechnology, 2004, 22, 531-537.	9.3	132
20	Rim15 and the crossroads of nutrient signalling pathways in Saccharomyces cerevisiae. Cell Division, 2006, 1, 3.	2.4	129
21	Nutrient-induced signal transduction through the protein kinase A pathway and its role in the control of metabolism, stress resistance, and growth in yeast. Enzyme and Microbial Technology, 2000, 26, 819-825.	3.2	122
22	Functional Mitochondria Are Required for Î±-Synuclein Toxicity in Aging Yeast. Journal of Biological Chemistry, 2008, 283, 7554-7560.	3.4	121
23	Differential Requirement of the Yeast Sugar Kinases for Sugar Sensing in Establishing the Catabolite-Repressed State. FEBS Journal, 1996, 241, 633-643.	0.2	119
24	Activation State of the Ras2 Protein and Glucose-induced Signaling in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2004, 279, 46715-46722.	3.4	116
25	SNCA (Î±-synuclein)-induced toxicity in yeast cells is dependent on Sir2-mediated mitophagy. Autophagy, 2012, 8, 1494-1509.	9.1	113
26	The Sch9 protein kinase in the yeast Saccharomyces cerevisiae controls cAPK activity and is required for nitrogen activation of the fermentable-growth-medium-induced (FGM) pathway. Microbiology (United Kingdom), 1997, 143, 2627-2637.	1.8	107
27	Phosphorylation, lipid raft interaction and traffic of Î±-synuclein in a yeast model for Parkinson. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1767-1780.	4.1	104
28	Haplotype diversity in the human red and green opsin genes: evidence for frequent sequence exchange in exon 3. Human Molecular Genetics, 1993, 2, 1413-1421.	2.9	101
29	Characterization of Î±â€synuclein aggregation and synergistic toxicity with protein tau in yeast. FEBS Journal, 2005, 272, 1386-1400.	4.7	94
30	Inferring transcriptional modules from ChIP-chip, motif and microarray data. Genome Biology, 2006, 7, R37.	9.6	89
31	Defective colour vision associated with a missense mutation in the human green visual pigment gene. Nature Genetics, 1992, 1, 251-256.	21.4	88
32	Protein folding diseases and neurodegeneration: Lessons learned from yeast. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1381-1395.	4.1	88
33	The novel yeast PAS kinase Rim 15 orchestrates G0-associated antioxidant defense mechanisms. Cell Cycle, 2004, 3, 462-8.	2.6	84
34	A yeast-based model of Î±-synucleinopathy identifies compounds with therapeutic potential. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2006, 1762, 312-318.	3.8	79
35	Multiple Hexose Transporters of Schizosaccharomyces pombe. Journal of Bacteriology, 2000, 182, 2153-2162.	2.2	78
36	Identification and Isolation of a Hyperphosphorylated, Conformationally Changed Intermediate of Human Protein Tau Expressed in Yeast. Biochemistry, 2005, 44, 11466-11475.	2.5	77

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37	The Ca2+/Mn2+ ion-pump PMR1 links elevation of cytosolic Ca2+ levels to Î±-synuclein toxicity in Parkinsonâ€™s disease models. Cell Death and Differentiation, 2013, 20, 465-477.	11.2	76
38	The alcohol acetyl transferase gene is a target of the cAMP/PKA and FGM nutrient-signalling pathways. FEMS Yeast Research, 2003, 4, 285-296.	2.3	72
39	Segregation of Protein Aggregates Involves Actin and the Polarity Machinery. Cell, 2011, 147, 959-961.	28.9	71
40	Endonuclease G mediates Î±-synuclein cytotoxicity during Parkinson's disease. EMBO Journal, 2013, 32, 3041-3054.	7.8	71
41	A Mitochondria-Associated Oxidative Stress Perspective on Huntingtonâ€™s Disease. Frontiers in Molecular Neuroscience, 2018, 11, 329.	2.9	71
42	Novel alleles of yeast hexokinase PII with distinct effects on catalytic activity and catabolite repression of SUC2. Microbiology (United Kingdom), 1999, 145, 703-714.	1.8	69
43	The protein kinase Sch9 is a key regulator of sphingolipid metabolism in<i>Saccharomyces cerevisiae</i>. Molecular Biology of the Cell, 2014, 25, 196-211.	2.1	66
44	Structureâ€"function analysis of yeast hexokinase: structural requirements for triggering cAMP signalling and catabolite repression. Biochemical Journal, 1999, 343, 159-168.	3.7	65
45	TheSaccharomyces cerevisiae alcohol acetyl transferase Atf1p is localized in lipid particles. Yeast, 2004, 21, 367-377.	1.7	65
46	Molecular mechanisms linking the evolutionary conserved TORC1-Sch9 nutrient signalling branch to lifespan regulation in<i>Saccharomyces cerevisiae</i>. FEMS Yeast Research, 2014, 14, 17-32.	2.3	64
47	Mitochondrial dysfunction leads to reduced chronological lifespan and increased apoptosis in yeast. FEBS Letters, 2009, 583, 113-117.	2.8	63
48	The Ccr4-Not Complex Independently Controls both Msn2-Dependent Transcriptional Activationâ€"via a Newly Identified Glc7/Bud14 Type I Protein Phosphatase Moduleâ€"and TFIID Promoter Distribution. Molecular and Cellular Biology, 2005, 25, 488-498.	2.3	61
49	Tissue-Specific Expression and Androgen Regulation of Different Genes Encoding Rat Prostatic 22-Kilodalton Glycoproteins Homologous to Human and Rat Cystatin. Molecular Endocrinology, 1990, 4, 657-667.	3.7	60
50	Digital ELISA for the quantification of attomolar concentrations of Alzheimer's disease biomarker protein Tau in biological samples. Analytica Chimica Acta, 2018, 1015, 74-81.	5.4	60
51	Differential roles for the low-affinity phosphate transporters Pho87 and Pho90 in<i>Saccharomyces cerevisiae</i>. Biochemical Journal, 2011, 434, 243-251.	3.7	59
52	Ceramide Involvement in Apoptosis and Apoptotic Diseases. Mini-Reviews in Medicinal Chemistry, 2006, 6, 699-709.	2.4	57
53	Ydc1p ceramidase triggers organelle fragmentation, apoptosis and accelerated ageing in yeast. Cellular and Molecular Life Sciences, 2008, 65, 1933-1942.	5.4	56
54	Protein phosphatase 2A on track for nutrient-induced signalling in yeast. Molecular Microbiology, 2002, 43, 835-842.	2.5	55

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55	Microtubule Binding and Clustering of Human Tau-4R and Tau-P301L Proteins Isolated from Yeast Deficient in Orthologues of Glycogen Synthase Kinase-3Î² or cdk5. Journal of Biological Chemistry, 2006, 281, 25388-25397.	3.4	55
56	Yeast unfolds the road map toward Î±-synuclein-induced cell death. Cell Death and Differentiation, 2010, 17, 746-753.	11.2	53
57	Level of M(IP)2C sphingolipid affects plant defensin sensitivity, oxidative stress resistance and chronological life-span in yeast. FEBS Letters, 2006, 580, 1903-1907.	2.8	51
58	The role of hexose transport and phosphorylation in cAMP signalling in the yeastSaccharomyces cerevisiae. FEMS Yeast Research, 2001, 1, 33-45.	2.3	49
59	Yeast models of Parkinsonâ€™s disease-associated molecular pathologies. Current Opinion in Genetics and Development, 2017, 44, 74-83.	3.3	49
60	The elusive tau molecular structures: can we translate the recent breakthroughs into new targets for intervention?. Acta Neuropathologica Communications, 2019, 7, 31.	5.2	49
61	The deafness gene DFNA5 induces programmed cell death through mitochondria and MAPK-related pathways. Frontiers in Cellular Neuroscience, 2015, 9, 231.	3.7	47
62	The yeast protein kinase Sch9 adjusts V-ATPase assembly/disassembly to control pH homeostasis and longevity in response to glucose availability. PLoS Genetics, 2017, 13, e1006835.	3.5	45
63	Structureâ€'function analysis of yeast hexokinase: structural requirements for triggering cAMP signalling and catabolite repression. Biochemical Journal, 1999, 343, 159.	3.7	43
64	Evidence for inositol triphosphate as a second messenger for glucose-induced calcium signalling in budding yeast. Current Genetics, 2004, 45, 83-89.	1.7	43
65	SKN1, a novel plant defensin-sensitivity gene inSaccharomyces cerevisiae, is implicated in sphingolipid biosynthesis. FEBS Letters, 2005, 579, 1973-1977.	2.8	43
66	pH homeostasis links the nutrient sensing PKA/TORC1/Sch9 mÃ©nage-Ã-trois to stress tolerance and longevity. Microbial Cell, 2018, 5, 119-136.	3.2	42
67	A mutation in Saccharomyces cerevisiae adenylate cyclase, Cyr1K1876M, specifically affects glucose- and acidification-induced cAMP signalling and not the basal cAMP level. Molecular Microbiology, 1999, 33, 363-376.	2.5	41
68	Serine-409 phosphorylation and oxidative damage define aggregation of human protein tau in yeast. FEMS Yeast Research, 2010, 10, 992-1005.	2.3	41
69	The TORC1-Sch9 pathway as a crucial mediator of chronological lifespan in the yeast Saccharomyces cerevisiae. FEMS Yeast Research, 2018, 18, .	2.3	39
70	During the initiation of fermentation overexpression of hexokinase PII in yeast transiently causes a similar deregulation of glycolysis as deletion of Tps1. , 1998, 14, 255-269.		38
71	Serine/alanine amino acid polymorphism of the L and M cone pigments: Effects on rayleigh matches among deuteranopes, protanopes and color normal observers. Vision Research, 1993, 33, 2139-2152.	1.4	37
72	Synphilin-1 Enhances Î±-Synuclein Aggregation in Yeast and Contributes to Cellular Stress and Cell Death in a Sir2-Dependent Manner. PLoS ONE, 2010, 5, e13700.	2.5	36

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73	Deletion ofSFI1, a novel suppressor of partial Ras-cAMP pathway deficiency in the yeastSaccharomyces cerevisiae, causes G2 arrest. Yeast, 1999, 15, 1097-1109.	1.7	35
74	Genome-wide expression analysis reveals TORC1-dependent and -independent functions of Sch9. FEMS Yeast Research, 2008, 8, 1276-1288.	2.3	35
75	The splicing mutant of the human tumor suppressor protein DFNA5 induces programmed cell death when expressed in the yeast Saccharomyces cerevisiae. Frontiers in Oncology, 2012, 2, 77.	2.8	35
76	pH homeostasis in yeast; the phosphate perspective. Current Genetics, 2018, 64, 155-161.	1.7	35
77	Yeast buddies helping to unravel the complexity of neurodegenerative disorders. Mechanisms of Ageing and Development, 2017, 161, 288-305.	4.6	34
78	Transcript analysis of 250 novel yeast genes from chromosome XIV. , 1999, 15, 329-350.		33
79	Androgen-dependent expression of cystatin-related protein (CRP) in the exorbital lacrimal gland of the rat. Journal of Steroid Biochemistry and Molecular Biology, 1994, 48, 165-170.	2.5	31
80	Lentiviral Delivery of the Human Wild-type Tau Protein Mediates a Slow and Progressive Neurodegenerative Tau Pathology in the Rat Brain. Molecular Therapy, 2013, 21, 1358-1368.	8.2	31
81	TORC1 Determines Fab1 Lipid Kinase Function at Signaling Endosomes and Vacuoles. Current Biology, 2021, 31, 297-309.e8.	3.9	31
82	The influence of yeast oxygenation prior to brewery fermentation on yeast metabolism and the oxidative stress response. FEMS Yeast Research, 2009, 9, 226-239.	2.3	30
83	The influence of wort aeration and yeast preoxygenation on beer staling processes. Food Chemistry, 2008, 107, 242-249.	8.2	29
84	Recent Insights on Alzheimerâ€™s Disease Originating from Yeast Models. International Journal of Molecular Sciences, 2018, 19, 1947.	4.1	29
85	The Saccharomyces cerevisiae homologue YPA1 of the mammalian phosphotyrosyl phosphatase activator of protein phosphatase 2A controls progression through the G1 phase of the yeast cell cycle 1 1Edited by J. Karn. Journal of Molecular Biology, 2000, 302, 103-119.	4.2	28
86	The Benefits of Humanized Yeast Models to Study Parkinsonâ€™s Disease. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-9.	4.0	28
87	Trehalose-6-phosphate synthesis controls yeast gluconeogenesis downstream and independent of SNF1. FEMS Yeast Research, 2016, 16, fow036.	2.3	28
88	From feast to famine; adaptation to nutrient availability in yeast. Topics in Current Genetics, 2003, , 305-386.	0.7	27
89	The Saccharomyces cerevisiae Phosphotyrosyl Phosphatase Activator Proteins Are Required for a Subset of the Functions Disrupted by Protein Phosphatase 2A Mutations. Experimental Cell Research, 2001, 264, 372-387.	2.6	25
90	Yeast as a Model System to Study Tau Biology. International Journal of Alzheimer's Disease, 2011, 2011, 1-16.	2.0	25

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91	Yeast as a Model for Alzheimerâ€™s Disease: Latest Studies and Advanced Strategies. Methods in Molecular Biology, 2016, 1303, 197-215.	0.9	24
92	Serine/alanine amino acid polymorphism of the L-cone photopigment assessed by dual Rayleigh-type color matches. Vision Research, 1994, 34, 377-382.	1.4	23
93	Aggresome formation and segregation of inclusions influence toxicity of Î±-synuclein and synphilin-1 in yeast. Biochemical Society Transactions, 2011, 39, 1476-1481.	3.4	23
94	Kallikrein-related protease in the rat ventral prostate: cDNA cloning and androgen regulation. Molecular and Cellular Endocrinology, 1989, 62, 217-226.	3.2	22
95	The minimum domain of Pho81 is not sufficient to control the Pho85â€"Rim15 effector branch involved in phosphate starvation-induced stress responses. Current Genetics, 2005, 48, 18-33.	1.7	22
96	Comparison of the 5' upstream putative regulatory sequences of three members of the alpha2u-globulin gene family. FEBS Journal, 1987, 165, 521-529.	0.2	21
97	Tau Monoclonal Antibody Generation Based on Humanized Yeast Models. Journal of Biological Chemistry, 2015, 290, 4059-4074.	3.4	21
98	Ca 2+ homeostasis in the budding yeast Saccharomyces cerevisiae : Impact of ER/Golgi Ca 2+ storage. Cell Calcium, 2015, 58, 226-235.	2.4	20
99	The Impact of ESCRT on AÎ²1-42 Induced Membrane Lesions in a Yeast Model for Alzheimerâ€™s Disease. Frontiers in Molecular Neuroscience, 2018, 11, 406.	2.9	19
100	Î±â€Synuclein toxicity in yeast and human cells is caused by cell cycle reâ€entry and autophagy degradation of ribonucleotide reductase 1. Aging Cell, 2019, 18, e12922.	6.7	19
101	Role of the ribosomal quality control machinery in nucleocytoplasmic translocation of polyQ-expanded huntingtin exon-1. Biochemical and Biophysical Research Communications, 2017, 493, 708-717.	2.1	17
102	[43] Molecular analysis of human red/ green visual pigment gene locus: relationship to color vision. Methods in Enzymology, 2000, 316, 651-670.	1.0	16
103	Glucocorticoid receptor binding to defined regions of Î±2 u-globulin genes. Biochemical and Biophysical Research Communications, 1987, 149, 1099-1105.	2.1	12
104	Identification of Genes with Nutrient-controlled Expression by PCR-mapping in the YeastSaccharomyces cerevisiae. , 1997, 13, 973-984.		12
105	A genome-wide imaging-based screening to identify genes involved in synphilin-1 inclusion formation in Saccharomyces cerevisiae. Scientific Reports, 2016, 6, 30134.	3.3	12
106	A specific mutation in Saccharomyces cerevisiae adenylate cyclase, Cyr1K1876M, eliminates glucose- and acidification-induced cAMP signalling and delays glucose-induced loss of stress resistance. International Journal of Food Microbiology, 2000, 55, 103-107.	4.7	10
107	Modifying Rap1-signalling by targeting Pde6Î´ is neuroprotective in models of Alzheimerâ€™s disease. Molecular Neurodegeneration, 2018, 13, 50.	10.8	9
108	Regulation of genes encoding subunits of the trehalose synthase complex in. Molecular Genetics and Genomics, 1996, 252, 470.	2.4	9

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109	Sphingolipids and Inositol Phosphates Regulate the Tau Protein Phosphorylation Status in Humanized Yeast. Frontiers in Cell and Developmental Biology, 2020, 8, 592159.	3.7	7
110	Yeast Stress, Aging, and Death. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-3.	4.0	6
111	Evidence for adenylate cyclase as a scaffold protein for Ras2â€"Ira interaction in Saccharomyces cerevisie. Cellular Signalling, 2014, 26, 1147-1154.	3.6	6
112	Decreased Vacuolar Ca2+ Storage and Disrupted Vesicle Trafficking Underlie Alpha-Synuclein-Induced Ca2+ Dysregulation in S. cerevisiae. Frontiers in Genetics, 2020, 11, 266.	2.3	6
113	Coordinated glucose-induced Ca2+ and pH responses in yeast Saccharomyces cerevisiae. Cell Calcium, 2021, 100, 102479.	2.4	6
114	The peptidyl prolyl cis/trans isomerase Pin1/Ess1 inhibits phosphorylation and toxicity of tau in a yeast model for Alzheimerâ€™s disease. AIMS Molecular Science, 2015, 2, 144-160.	0.5	6
115	A Novel Tau Antibody Detecting the First Amino-Terminal Insert Reveals Conformational Differences Among Tau Isoforms. Frontiers in Molecular Biosciences, 2020, 7, 48.	3.5	5
116	Lsm7 phase-separated condensates trigger stress granule formation. Nature Communications, 2022, 13, .	12.8	5
117	Multiple binding sites for nuclear factors in the 5â€²-upstream region of two Î±2u-globulin genes: Implications for hormone-regulated and tissue-specific control. Journal of Steroid Biochemistry and Molecular Biology, 1993, 45, 353-366.	2.5	4
118	The Role of Sch9 and the V-ATPase in the Adaptation Response to Acetic Acid and the Consequences for Growth and Chronological Lifespan. Microorganisms, 2021, 9, 1871.	3.6	3
119	Investigating the Antifungal Mechanism of Action of Polygodial by Phenotypic Screening in Saccharomyces cerevisiae. International Journal of Molecular Sciences, 2021, 22, 5756.	4.1	2
120	Hexokinase 2; Tangled between sphingolipid and sugar metabolism. Cell Cycle, 2016, 15, 3016-3017.	2.6	1
121	Yeasts as Complementary Model Systems for the Study of the Pathological Repercussions of Enhanced Synphilin-1 Glycation and Oxidation. International Journal of Molecular Sciences, 2021, 22, 1677.	4.1	1
122	Neuroserpin Inclusion Bodies in a FENIB Yeast Model. Microorganisms, 2021, 9, 1498.	3.6	1
123	Editorial: Yeast Differentiation: From Cell-to-Cell Heterogeneity to Replicative Aging and Regulated Cell Death. Frontiers in Cell and Developmental Biology, 2021, 9, 823447.	3.7	1
124	O1-07-05: In vivo tau spreading relies on the transsynaptic transfer of soluble wild-type tau species. , 2013, 9, P142-P142.		0
125	Microbial Programmed Necrosis: The Cost of Conflicts Between Stress and Metabolism. , 2014, , 253-274.		0
126	New perspectives from South-Y-East, not all about death A report of the 12th International Meeting on Yeast Apoptosis in Bari, Italy, May 14th-18th, 2017. Microbial Cell, 2018, 5, 112-115.	3.2	0