

# Marie Françoise Gorwa-Grauslund

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4698650/publications.pdf>

Version: 2024-02-01

85  
papers

6,636  
citations

101384

36  
h-index

64668

79  
g-index

87  
all docs

87  
docs citations

87  
times ranked

5430  
citing authors

#	ARTICLE	IF	CITATIONS
1	Muconic Acid Production Using Engineered <i>Pseudomonas putida</i> KT2440 and a Guaiacol-Rich Fraction Derived from Kraft Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8097-8106.	3.2	31
2	D-Xylose Sensing in <i>Saccharomyces cerevisiae</i> : Insights from D-Glucose Signaling and Native D-Xylose Utilizers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12410.	1.8	17
3	Vanillin Production in <i>Pseudomonas</i> : Whole-Genome Sequencing of <i>Pseudomonas</i> sp. Strain 9.1 and Reannotation of <i>Pseudomonas putida</i> CalA as a Vanillin Reductase. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	17
4	Identification of the two-component guaiacol demethylase system from <i>Rhodococcus rhodochrous</i> and expression in <i>Pseudomonas putida</i> EM42 for guaiacol assimilation. <i>AMB Express</i> , 2019, 9, 34.	1.4	29
5	Exploring the xylose paradox in <i>Saccharomyces cerevisiae</i> through in vivo sugar signalomics of targeted deletants. <i>Microbial Cell Factories</i> , 2019, 18, 88.	1.9	31
6	Identification of modifications procuring growth on xylose in recombinant <i>Saccharomyces cerevisiae</i> strains carrying the Weimberg pathway. <i>Metabolic Engineering</i> , 2019, 55, 1-11.	3.6	27
7	Bacterial conversion of depolymerized Kraft lignin. <i>Biotechnology for Biofuels</i> , 2019, 12, 56.	6.2	36
8	Mapping the diversity of microbial lignin catabolism: experiences from the eLignin database. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3979-4002.	1.7	85
9	Physiological characterization and sequence analysis of a syringate-consuming <i>Actinobacterium</i> . <i>Bioresource Technology</i> , 2019, 285, 121327.	4.8	13
10	Assessing the effect of d-xylose on the sugar signaling pathways of <i>Saccharomyces cerevisiae</i> in strains engineered for xylose transport and assimilation. <i>FEMS Yeast Research</i> , 2018, 18, .	1.1	35
11	Exploring d-xylose oxidation in <i>Saccharomyces cerevisiae</i> through the Weimberg pathway. <i>AMB Express</i> , 2018, 8, 33.	1.4	22
12	Biological conversion of aromatic monolignol compounds by a <i>Pseudomonas</i> isolate from sediments of the Baltic Sea. <i>AMB Express</i> , 2018, 8, 32.	1.4	23
13	Improvement of whole-cell transamination with <i>Saccharomyces cerevisiae</i> using metabolic engineering and cell pre-adaptation. <i>Microbial Cell Factories</i> , 2017, 16, 3.	1.9	14
14	Effect of nitrogen availability on the poly-3-d-hydroxybutyrate accumulation by engineered <i>Saccharomyces cerevisiae</i> . <i>AMB Express</i> , 2017, 7, 35.	1.4	20
15	Conversion of lignin model compounds by <i>Pseudomonas putida</i> KT2440 and isolates from compost. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 5059-5070.	1.7	103
16	Increased lignocellulosic inhibitor tolerance of <i>Saccharomyces cerevisiae</i> cell populations in early stationary phase. <i>Biotechnology for Biofuels</i> , 2017, 10, 114.	6.2	20
17	Anaerobic poly-3-d-hydroxybutyrate production from xylose in recombinant <i>Saccharomyces cerevisiae</i> using a NADH-dependent acetoacetyl-CoA reductase. <i>Microbial Cell Factories</i> , 2016, 15, 197.	1.9	27
18	Adaptation to low pH and lignocellulosic inhibitors resulting in ethanolic fermentation and growth of <i>Saccharomyces cerevisiae</i> . <i>AMB Express</i> , 2016, 6, 59.	1.4	55

#	ARTICLE	IF	CITATIONS
19	Biological valorization of low molecular weight lignin. <i>Biotechnology Advances</i> , 2016, 34, 1318-1346.	6.0	304
20	Real-time monitoring of the sugar sensing in <i>Saccharomyces cerevisiae</i> indicates endogenous mechanisms for xylose signaling. <i>Microbial Cell Factories</i> , 2016, 15, 183.	1.9	22
21	Yeast Pathway Kit: A Method for Metabolic Pathway Assembly with Automatically Simulated Executable Documentation. <i>ACS Synthetic Biology</i> , 2016, 5, 386-394.	1.9	15
22	Adaptation of <i>Scheffersomyces stipitis</i> to hardwood spent sulfite liquor by evolutionary engineering. <i>Biotechnology for Biofuels</i> , 2015, 8, 50.	6.2	38
23	Engineering of <i>Saccharomyces cerevisiae</i> for the production of poly-3-d-hydroxybutyrate from xylose. <i>AMB Express</i> , 2015, 5, 14.	1.4	29
24	Cell periphery-related proteins as major genomic targets behind the adaptive evolution of an industrial <i>Saccharomyces cerevisiae</i> strain to combined heat and hydrolysate stress. <i>BMC Genomics</i> , 2015, 16, 514.	1.2	36
25	NADH-dependent biosensor in <i>Saccharomyces cerevisiae</i> : principle and validation at the single cell level. <i>AMB Express</i> , 2014, 4, 81.	1.4	26
26	Exploiting cell metabolism for biocatalytic whole-cell transamination by recombinant <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 4615-4624.	1.7	21
27	Furaldehyde substrate specificity and kinetics of <i>Saccharomyces cerevisiae</i> alcohol dehydrogenase 1 variants. <i>Microbial Cell Factories</i> , 2014, 13, 112.	1.9	6
28	Engineered baker's yeast as whole-cell biocatalyst for one-pot stereo-selective conversion of amines to alcohols. <i>Microbial Cell Factories</i> , 2014, 13, 118.	1.9	9
29	Re-assessment of YAP1 and MCR1 contributions to inhibitor tolerance in robust engineered <i>Saccharomyces cerevisiae</i> fermenting undetoxified lignocellulosic hydrolysate. <i>AMB Express</i> , 2014, 4, 56.	1.4	19
30	Biocatalytic potential of vanillin aminotransferase from <i>Capsicum chinense</i> . <i>BMC Biotechnology</i> , 2014, 14, 25.	1.7	29
31	Physiological effects of over-expressing compartment-specific components of the protein folding machinery in xylose-fermenting <i>Saccharomyces cerevisiae</i> . <i>BMC Biotechnology</i> , 2014, 14, 28.	1.7	4
32	<i>Saccharomyces cerevisiae</i> : a potential host for carboxylic acid production from lignocellulosic feedstock?. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 7299-7318.	1.7	20
33	Adaptive evolution of an industrial strain of <i>Saccharomyces cerevisiae</i> for combined tolerance to inhibitors and temperature. <i>Biotechnology for Biofuels</i> , 2013, 6, 151.	6.2	125
34	Short-term adaptation improves the fermentation performance of <i>Saccharomyces cerevisiae</i> in the presence of acetic acid at low pH. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 7517-7525.	1.7	23
35	Engineering Yeast Hexokinase 2 for Improved Tolerance Toward Xylose-Induced Inactivation. <i>PLoS ONE</i> , 2013, 8, e75055.	1.1	24
36	Isolation and characterization of a resident tolerant <i>Saccharomyces cerevisiae</i> strain from a spent sulfite liquor fermentation plant. <i>AMB Express</i> , 2012, 2, 68.	1.4	13

#	ARTICLE	IF	CITATIONS
37	Physiological requirements for growth and competitiveness of <i>Dekkera bruxellensis</i> under oxygen-limited or anaerobic conditions. <i>Yeast</i> , 2012, 29, 265-274.	0.8	48
38	Kinetic modelling reveals current limitations in the production of ethanol from xylose by recombinant <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2011, 13, 508-517.	3.6	316
39	Stress-related challenges in pentose fermentation to ethanol by the yeast <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2011, 6, 286-299.	1.8	107
40	Isolation of xylose isomerases by sequence- and function-based screening from a soil metagenomic library. <i>Biotechnology for Biofuels</i> , 2011, 4, 9.	6.2	46
41	Flotation as a tool for indirect DNA extraction from soil. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 1927-1933.	1.7	16
42	PGM2 overexpression improves anaerobic galactose fermentation in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2010, 9, 40.	1.9	30
43	Improved xylose and arabinose utilization by an industrial recombinant <i>Saccharomyces cerevisiae</i> strain using evolutionary engineering. <i>Biotechnology for Biofuels</i> , 2010, 3, 13.	6.2	117
44	Cross-reactions between engineered xylose and galactose pathways in recombinant <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2010, 3, 19.	6.2	17
45	The deletion of <i>YLR042c</i> improves ethanolic xylose fermentation by recombinant <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2010, 27, 741-751.	0.8	15
46	Identification of a <i>Candida</i> sp. reductase behind bicyclic exo-alcohol production. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 59, 286-291.	1.8	4
47	Kinetic resolution of racemic 5,6-epoxy-bicyclo[2.2.1]heptane-2-one using genetically engineered <i>Saccharomyces cerevisiae</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 58, 98-102.	1.8	7
48	Metabolic effects of furaldehydes and impacts on biotechnological processes. <i>Applied Microbiology and Biotechnology</i> , 2009, 82, 625-638.	1.7	267
49	Comparison of engineered <i>Saccharomyces cerevisiae</i> and engineered <i>Escherichia coli</i> for the production of an optically pure keto alcohol. <i>Applied Microbiology and Biotechnology</i> , 2009, 84, 487-497.	1.7	13
50	Carbon fluxes of xylose-consuming <i>Saccharomyces cerevisiae</i> strains are affected differently by NADH and NADPH usage in HMF reduction. <i>Applied Microbiology and Biotechnology</i> , 2009, 84, 751-761.	1.7	47
51	Proteome analysis of the xylose-fermenting mutant yeast strain TMB 3400. <i>Yeast</i> , 2009, 26, 371-382.	0.8	31
52	Xylose reductase from <i>Pichia stipitis</i> with altered coenzyme preference improves ethanolic xylose fermentation by recombinant <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2009, 2, 9.	6.2	130
53	Electrochemical Probing of in Vivo 5-Hydroxymethyl Furfural Reduction in <i>Saccharomyces cerevisiae</i> . <i>Analytical Chemistry</i> , 2009, 81, 9896-9901.	3.2	17
54	Arabinose and xylose fermentation by recombinant <i>Saccharomyces cerevisiae</i> expressing a fungal pentose utilization pathway. <i>Microbial Cell Factories</i> , 2009, 8, 40.	1.9	115

#	ARTICLE	IF	CITATIONS
55	Reaction and strain engineering for improved stereo-selective whole-cell reduction of a bicyclic diketone. <i>Applied Microbiology and Biotechnology</i> , 2008, 77, 1111-1118.	1.7	31
56	NADH- vs NADPH-coupled reduction of 5-hydroxymethyl furfural (HMF) and its implications on product distribution in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 939-945.	1.7	122
57	Comparing the xylose reductase/xylitol dehydrogenase and xylose isomerase pathways in arabinose and xylose fermenting <i>Saccharomyces cerevisiae</i> strains. <i>Biotechnology for Biofuels</i> , 2008, 1, 16.	6.2	61
58	Identification of an NADH-dependent 5-hydroxymethylfurfural-reducing alcohol dehydrogenase in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2008, 25, 191-198.	0.8	85
59	Identification of common traits in improved xylose-growing <i>Saccharomyces cerevisiae</i> for inverse metabolic engineering. <i>Yeast</i> , 2008, 25, 835-847.	0.8	49
60	Variability of the response of <i>Saccharomyces cerevisiae</i> strains to lignocellulose hydrolysate. <i>Biotechnology and Bioengineering</i> , 2008, 100, 423-429.	1.7	47
61	Genetically engineered <i>Saccharomyces cerevisiae</i> for kinetic resolution of racemic bicyclo[3.3.1]nonane-2,6-dione. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 2293-2295.	1.8	9
62	Flavonoids as inhibitors of human carbonyl reductase 1. <i>Chemico-Biological Interactions</i> , 2008, 174, 98-108.	1.7	30
63	Increased tolerance and conversion of inhibitors in lignocellulosic hydrolysates by <i>Saccharomyces cerevisiae</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 340-349.	1.6	816
64	Rationalisation of the substrate concentration dependent diastereoselectivity of a <i>Saccharomyces cerevisiae</i> short-chain dehydrogenase. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 2554-2556.	1.8	1
65	Metabolic Engineering for Pentose Utilization in <i>Saccharomyces cerevisiae</i> . , 2007, 108, 147-177.		161
66	High activity of xylose reductase and xylitol dehydrogenase improves xylose fermentation by recombinant <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2007, 73, 1039-1046.	1.7	125
67	Towards industrial pentose-fermenting yeast strains. <i>Applied Microbiology and Biotechnology</i> , 2007, 74, 937-953.	1.7	662
68	Efficient bioreduction of bicyclo[2.2.2]octane-2,5-dione and bicyclo[2.2.2]oct-7-ene-2,5-dione by genetically engineered <i>Saccharomyces cerevisiae</i> . <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 2304-2312.	1.5	31
69	Simultaneous saccharification and co-fermentation of glucose and xylose in steam-pretreated corn stover at high fiber content with <i>Saccharomyces cerevisiae</i> TMB3400. <i>Journal of Biotechnology</i> , 2006, 126, 488-498.	1.9	245
70	A 5-hydroxymethyl furfural reducing enzyme encoded by the <i>Saccharomyces cerevisiae</i> ADH6 gene conveys HMF tolerance. <i>Yeast</i> , 2006, 23, 455-464.	0.8	245
71	The expression of a <i>Pichia stipitis</i> xylose reductase mutant with higher $K_M$ for NADPH increases ethanol production from xylose in recombinant <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2006, 93, 665-673.	1.7	127
72	The Synthesis of Bicyclo[2.2.2]octan-2,6-dione Revisited. <i>Synthesis</i> , 2006, 2006, 3527-3530.	1.2	0

#	ARTICLE	IF	CITATIONS
73	Strain engineering for stereoselective bioreduction of dicarbonyl compounds by yeast reductases. FEMS Yeast Research, 2005, 5, 513-525.	1.1	42
74	Investigation of limiting metabolic steps in the utilization of xylose by recombinant <i>Saccharomyces cerevisiae</i> using metabolic engineering. Yeast, 2005, 22, 359-368.	0.8	181
75	Cofactor Dependence in Furan Reduction by <i>Saccharomyces cerevisiae</i> in Fermentation of Acid-Hydrolyzed Lignocellulose. Applied and Environmental Microbiology, 2005, 71, 7866-7871.	1.4	88
76	Role of cultivation media in the development of yeast strains for large scale industrial use. Microbial Cell Factories, 2005, 4, 31.	1.9	176
77	Endogenous NADPH-dependent aldose reductase activity influences product formation during xylose consumption in recombinant <i>Saccharomyces cerevisiae</i> . Yeast, 2004, 21, 141-150.	0.8	44
78	Mild detergent treatment of <i>Candida tropicalis</i> reveals a NADPH-dependent reductase in the crude membrane fraction, which enables the production of pure bicyclic exo-alcohol. Yeast, 2004, 21, 1253-1267.	0.8	10
79	Control of xylose consumption by xylose transport in recombinant <i>Saccharomyces cerevisiae</i> . Biotechnology and Bioengineering, 2003, 82, 818-824.	1.7	80
80	Efficient anaerobic whole cell stereoselective bioreduction with recombinant <i>saccharomyces cerevisiae</i> . Biotechnology and Bioengineering, 2003, 84, 573-582.	1.7	62
81	Screening of two complementary collections of <i>Saccharomyces cerevisiae</i> to identify enzymes involved in stereo-selective reductions of specific carbonyl compounds: an alternative to protein purification. Enzyme and Microbial Technology, 2003, 33, 163-172.	1.6	37
82	Effect of enhanced xylose reductase activity on xylose consumption and product distribution in xylose-fermenting recombinant. FEMS Yeast Research, 2003, 3, 167-175.	1.1	83
83	The level of glucose-6-phosphate dehydrogenase activity strongly influences xylose fermentation and inhibitor sensitivity in recombinant <i>Saccharomyces cerevisiae</i> strains. Yeast, 2003, 20, 1263-1272.	0.8	87
84	Reduced Oxidative Pentose Phosphate Pathway Flux in Recombinant Xylose-Utilizing <i>Saccharomyces cerevisiae</i> Strains Improves the Ethanol Yield from Xylose. Applied and Environmental Microbiology, 2002, 68, 1604-1609.	1.4	166
85	Screening of yeast species for the stereo-selective reduction of bicyclo[2.2.2]octane-2,6-dione. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 1111-1114.	1.3	17