

# MarÃ-a Isabel GonzÃ¡lez-Siso

## List of Publications by Year in descending order

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105  
papers

3,111  
citations

159585

30  
h-index

175258

52  
g-index

106  
all docs

106  
docs citations

106  
times ranked

3219  
citing authors

#	ARTICLE	IF	CITATIONS
1	The biotechnological utilization of cheese whey: A review. <i>Bioresource Technology</i> , 1996, 57, 1-11.	9.6	587
2	New Extremophilic Lipases and Esterases from Metagenomics. <i>Current Protein and Peptide Science</i> , 2014, 15, 445-455.	1.4	144
3	In vitro effects of mangiferin on superoxide concentrations and expression of the inducible nitric oxide synthase, tumour necrosis factor- $\alpha$ and transforming growth factor- $\beta$ genes. <i>Biochemical Pharmacology</i> , 2003, 65, 1361-1371.	4.4	140
4	Metagenomics of Thermophiles with a Focus on Discovery of Novel Thermozyymes. <i>Frontiers in Microbiology</i> , 2016, 7, 1521.	3.5	98
5	Structural basis of specificity in tetrameric <i>Kluyveromyces lactis</i> $\beta$ -galactosidase. <i>Journal of Structural Biology</i> , 2012, 177, 392-401.	2.8	88
6	Respirofermentative metabolism in <i>Kluyveromyces lactis</i> . <i>Enzyme and Microbial Technology</i> , 2000, 26, 699-705.	3.2	81
7	Sugar metabolism, redox balance and oxidative stress response in the respiratory yeast <i>Kluyveromyces lactis</i> . <i>Microbial Cell Factories</i> , 2009, 8, 46.	4.0	75
8	Codon usage in <i>Kluyveromyces lactis</i> and in yeast cytochrome c-encoding genes. <i>Gene</i> , 1994, 139, 43-49.	2.2	71
9	Enzyme encapsulation on chitosan microbeads. <i>Process Biochemistry</i> , 1997, 32, 211-216.	3.7	69
10	Hot Spring Metagenomics. <i>Life</i> , 2013, 3, 308-320.	2.4	69
11	Respirofermentative metabolism in <i>Kluyveromyces lactis</i> : Ethanol production and the Crabtree effect. <i>Enzyme and Microbial Technology</i> , 1996, 18, 585-591.	3.2	59
12	Transcriptome analysis of the thermotolerant yeast <i>Kluyveromyces marxianus</i> CCT 7735 under ethanol stress. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6969-6980.	3.6	57
13	Metagenomics of an Alkaline Hot Spring in Galicia (Spain): Microbial Diversity Analysis and Screening for Novel Lipolytic Enzymes. <i>Frontiers in Microbiology</i> , 2015, 6, 1291.	3.5	54
14	Lactose bioconversion by calcium-alginate immobilization of <i>Kluyveromyces lactis</i> cells. <i>Enzyme and Microbial Technology</i> , 2001, 29, 506-512.	3.2	51
15	<i>Kluyveromyces marxianus</i> as a host for heterologous protein synthesis. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6193-6208.	3.6	49
16	Cellulases from Thermophiles Found by Metagenomics. <i>Microorganisms</i> , 2018, 6, 66.	3.6	46
17	Characterization of microbial biomasses and amylolytic preparations obtained from mussel processing waste treatment. <i>Bioresource Technology</i> , 1993, 43, 117-125.	9.6	45
18	Reoxidation of cytosolic NADPH in <i>Kluyveromyces lactis</i> . <i>FEMS Yeast Research</i> , 2006, 6, 371-380.	2.3	43

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19	Reoxidation of the NADPH produced by the pentose phosphate pathway is necessary for the utilization of glucose by <i>Kluyveromyces lactis</i> rag2 mutants. <i>FEBS Letters</i> , 1996, 387, 7-10.	2.8	41
20	Title is missing!. <i>Biotechnology Letters</i> , 1998, 12, 253-256.	0.5	40
21	Heterologous expression of glucose oxidase in the yeast <i>Kluyveromyces marxianus</i> . <i>Microbial Cell Factories</i> , 2010, 9, 4.	4.0	40
22	New secretory strategies for <i>Kluyveromyces lactis</i> $\beta$ -galactosidase. <i>Protein Engineering, Design and Selection</i> , 2001, 14, 379-386.	2.1	39
23	Microbial diversity analysis and screening for novel xylanase enzymes from the sediment of the Lobios Hot Spring in Spain. <i>Scientific Reports</i> , 2019, 9, 11195.	3.3	37
24	Depuration and valuation of mussel-processing wastes. Characterization of amyolytic postincubates from different species grown on an effluent. <i>Bioresource Technology</i> , 1992, 42, 133-140.	9.6	35
25	<i>Kluyveromyces lactis</i> immobilization on corn grits for milk whey lactose hydrolysis. <i>Enzyme and Microbial Technology</i> , 1994, 16, 303-310.	3.2	35
26	Biobutanol from cheese whey. <i>Microbial Cell Factories</i> , 2015, 14, 27.	4.0	35
27	Heterologous expression of a thermophilic esterase in <i>Kluyveromyces</i> yeasts. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 375-385.	3.6	34
28	Secretion and properties of a hybrid <i>Kluyveromyces lactis</i> - <i>Aspergillus niger</i> beta-galactosidase. <i>Microbial Cell Factories</i> , 2006, 5, 41.	4.0	33
29	Yeast $\beta$ -galactosidase in solid-state fermentations. <i>Enzyme and Microbial Technology</i> , 1996, 19, 39-44.	3.2	32
30	The nuclear genes encoding the internal (KIND11) and external (KINDE1) alternative NAD(P)H:ubiquinone oxidoreductases of mitochondria from <i>Kluyveromyces lactis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1707, 199-210.	1.0	31
31	Permeabilization of <i>Kluyveromyces lactis</i> cells for milk whey saccharification: A comparison of different treatments. <i>Biotechnology Letters</i> , 1992, 6, 289-292.	0.5	29
32	Covalent immobilization of $\beta$ -galactosidase on corn grits. A system for lactose hydrolysis without diffusional resistance. <i>Process Biochemistry</i> , 1994, 29, 7-12.	3.7	27
33	Heterologous <i>Kluyveromyces lactis</i> $\beta$ -galactosidase production and release by <i>Saccharomyces cerevisiae</i> osmotic-remedial thermosensitive autolytic mutants. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1997, 1335, 235-241.	2.4	27
34	Engineered autolytic yeast strains secreting <i>Kluyveromyces lactis</i> $\beta$ -galactosidase for production of heterologous proteins in lactose media. <i>Journal of Biotechnology</i> , 2004, 109, 131-137.	3.8	27
35	Heterologous expression of an esterase from <i>Thermus thermophilus</i> HB27 in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2010, 145, 226-232.	3.8	25
36	Characterization of the second external alternative dehydrogenase from mitochondria of the respiratory yeast <i>Kluyveromyces lactis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 1476-1484.	1.0	24

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37	Rational mutagenesis by engineering disulphide bonds improves <i>Kluyveromyces lactis</i> beta-galactosidase for high-temperature industrial applications. <i>Scientific Reports</i> , 2017, 7, 45535.	3.3	24
38	Î <sup>2</sup> -Galactosidase production by <i>Kluyveromyces lactis</i> on milk whey: batch versus fed-batch cultures. <i>Process Biochemistry</i> , 1994, 29, 565-568.	3.7	22
39	Î <sup>2</sup> Galactosidase production by <i>Kluyveromyces lactis</i> on milk whey: batch versus fed-batch cultures. <i>Process Biochemistry</i> , 1994, 29, 565-568.	3.6	22
40	Bioconversion of Beet Molasses to Alpha-Galactosidase and Ethanol. <i>Frontiers in Microbiology</i> , 2019, 10, 405.	3.5	22
41	Enhancement of the bioproduction potential of an amylaceous effluent. <i>Bioresource Technology</i> , 1993, 44, 155-163.	9.6	21
42	Genome-wide analysis of <i>Kluyveromyces lactis</i> in wild-type and <i>rag2</i> mutant strains. <i>Genome</i> , 2004, 47, 970-978.	2.0	21
43	Regulatory factors controlling transcription of <i>Saccharomyces cerevisiae</i> <i>IXR1</i> by oxygen levels: a model of transcriptional adaptation from aerobiosis to hypoxia implicating <i>ROX1</i> and <i>IXR1</i> cross-regulation. <i>Biochemical Journal</i> , 2010, 425, 235-243.	3.7	20
44	Optimization of <i>Saccharomyces cerevisiae</i> Î <sup>2</sup> -galactosidase production and application in the degradation of raffinose family oligosaccharides. <i>Microbial Cell Factories</i> , 2019, 18, 172.	4.0	20
45	Dealing with different methods for <i>Kluyveromyces lactis</i> Î <sup>2</sup> -galactosidase purification. <i>Biological Procedures Online</i> , 1998, 1, 48-58.	2.9	19
46	Genome-Wide Analysis of the Yeast Transcriptome Upon Heat and Cold Shock. <i>Comparative and Functional Genomics</i> , 2003, 4, 366-375.	2.0	18
47	Functional characterization of <i>KHAP1</i> : A model to foresee different mechanisms of transcriptional regulation by <i>Hap1p</i> in yeasts. <i>Gene</i> , 2007, 405, 96-107.	2.2	18
48	The role of glutathione reductase in the interplay between oxidative stress response and turnover of cytosolic NADPH in <i>Kluyveromyces lactis</i> . <i>FEMS Yeast Research</i> , 2008, 8, 597-606.	2.3	18
49	An approach to the hypoxic and oxidative stress responses in <i>Kluyveromyces lactis</i> by analysis of mRNA levels. <i>FEMS Yeast Research</i> , 2007, 7, 702-714.	2.3	17
50	Production and characterization of two N-terminal truncated esterases from <i>Thermus thermophilus</i> HB27 in a mesophilic yeast: Effect of N-terminus in thermal activity and stability. <i>Protein Expression and Purification</i> , 2011, 78, 120-130.	1.3	17
51	Cloning, expression, purification and characterization of an oligomeric His-tagged thermophilic esterase from <i>Thermus thermophilus</i> HB27. <i>Process Biochemistry</i> , 2014, 49, 927-935.	3.7	17
52	Biochemical and Structural Characterization of a novel thermophilic esterase <i>EstD11</i> provide catalytic insights for the HSL family. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 1214-1232.	4.1	17
53	Valuation of agro-industrial wastes as substrates for heterologous production of Î <sup>2</sup> -galactosidase. <i>Microbial Cell Factories</i> , 2018, 17, 137.	4.0	16
54	RFLP analysis of PCR-amplified small subunit ribosomal DNA of three fish microsporidian species. <i>Parasitology</i> , 2000, 120, 113-119.	1.5	15

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55	The yeast hypoxic responses, resources for new biotechnological opportunities. <i>Biotechnology Letters</i> , 2012, 34, 2161-2173.	2.2	15
56	<i>Kluyveromyces lactis</i> : A Suitable Yeast Model to Study Cellular Defense Mechanisms against Hypoxia-Induced Oxidative Stress. <i>Oxidative Medicine and Cellular Longevity</i> , 2012, 2012, 1-14.	4.0	15
57	Improved bioethanol production in an engineered <i>Kluyveromyces lactis</i> strain shifted from respiratory to fermentative metabolism by deletion of NDI 1. <i>Microbial Biotechnology</i> , 2015, 8, 319-330.	4.2	15
58	Isolation and characterization of two nuclear genes encoding glutathione and thioredoxin reductases from the yeast <i>Kluyveromyces lactis</i> . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2004, 1678, 170-175.	2.4	14
59	Title is missing!. <i>Biotechnology Letters</i> , 2001, 23, 33-40.	2.2	13
60	<i>lxr1p</i> regulates oxygen-dependent $\alpha$ -HEM13 transcription. <i>FEMS Yeast Research</i> , 2010, 10, 309-321.	2.3	13
61	<i>Thermus thermophilus</i> as a Source of Thermostable Lipolytic Enzymes. <i>Microorganisms</i> , 2015, 3, 792-808.	3.6	13
62	Production and Characterization of an Extracellular Acid Protease from Thermophilic <i>Brevibacillus</i> sp. OA30 Isolated from an Algerian Hot Spring. <i>Microorganisms</i> , 2018, 6, 31.	3.6	13
63	Proteomic Analysis of the Oxidative Stress Response in <i>Kluyveromyces lactis</i> and Effect of Glutathione Reductase Depletion. <i>Journal of Proteome Research</i> , 2010, 9, 2358-2376.	3.7	12
64	Functional characterization of KHEM13, a hypoxic gene of <i>Kluyveromyces lactis</i> . <i>Canadian Journal of Microbiology</i> , 2005, 51, 241-249.	1.7	11
65	A transcriptome analysis of <i>Kluyveromyces lactis</i> growing in cheese whey. <i>International Dairy Journal</i> , 2006, 16, 207-214.	3.0	11
66	<i>lxr1</i> Regulates Ribosomal Gene Transcription and Yeast Response to Cisplatin. <i>Scientific Reports</i> , 2018, 8, 3090.	3.3	11
67	Exploring the taxonomical and functional profile of As Burgas hot spring focusing on thermostable $\beta$ -galactosidases. <i>Scientific Reports</i> , 2021, 11, 101.	3.3	11
68	Amylolysis in systems with $\alpha$ -amylase and glucoamylase. A comparative study of six procedures of evaluation. <i>Biotechnology Letters</i> , 1987, 1, 195.	0.5	10
69	A HPLC method for specific determination of $\alpha$ -amylase and glucoamylase in complex enzymatic preparations. <i>Chromatographia</i> , 1989, 27, 328-332.	1.3	10
70	Metabolic engineering for direct lactose utilization by <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 2002, 24, 1391-1396.	2.2	10
71	Effects of chitinolytic and proteolytic enzymes on in vitro phagocytosis of microsporidians by spleen macrophages of turbot, <i>Scophthalmus maximus</i> L.. <i>Veterinary Immunology and Immunopathology</i> , 1997, 59, 171-180.	1.2	9
72	Crystallization and preliminary X-ray crystallographic analysis of $\beta$ -galactosidase from <i>Kluyveromyces lactis</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 297-300.	0.7	9

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73	Microfungus-yeast mixed cultures in the degradation of amylaceous wastes. I: Interactions affecting amylolytic activity. <i>Biotechnology Letters</i> , 1988, 10, 431-436.	2.2	8
74	DNA probes for detection of the fish microsporidians <i>Microgemma caulleryi</i> and <i>Tetramicra brevifilum</i> . <i>Parasitology</i> , 1999, 119, 267-272.	1.5	8
75	Cloning Genes From a Library Using a Clustering Strategy and PCR. <i>Molecular Biotechnology</i> , 2004, 26, 35-38.	2.4	8
76	<i>Kluyveromyces lactis</i> $\beta$ -galactosidase crystallization using full-factorial experimental design. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 52-53, 178-182.	1.8	8
77	PICDI, a simple program for codon bias calculation. <i>Molecular Biotechnology</i> , 1996, 5, 191-195.	2.4	7
78	Functional motifs outside the kinase domain of yeast <i>Srb10p</i> . Their role in transcriptional regulation and protein-interactions with <i>Tup1p</i> and <i>Srb11p</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 1227-1235.	2.3	7
79	<i>KlGcr1</i> controls glucose-6-phosphate dehydrogenase activity and responses to H <sub>2</sub> O <sub>2</sub> , cadmium and arsenate in <i>Kluyveromyces lactis</i> . <i>Fungal Genetics and Biology</i> , 2015, 82, 95-103.	2.1	7
80	A factorial experimental design for investigation of the effects of temperature, incubation time, and pathogen-to-phagocyte ratio on in vitro phagocytosis by turbot adherent cells. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1995, 112, 215-220.	0.5	6
81	Functional characterisation and transcriptional regulation of the <i>KIHEM12</i> gene from <i>Kluyveromyces lactis</i> . <i>Current Genetics</i> , 2004, 46, 147-57.	1.7	6
82	A functional analysis of <i>Kluyveromyces lactis</i> glutathione reductase. <i>Yeast</i> , 2010, 27, 431-441.	1.7	6
83	<i>Sky1</i> regulates the expression of sulfur metabolism genes in response to cisplatin. <i>Microbiology (United Kingdom)</i> , 2014, 160, 1357-1368.	1.8	6
84	Isolation and transcriptional regulation of the <i>Kluyveromyces lactis</i> <i>FBA1</i> (fructose-1,6-bisphosphate) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.7	5
85	<i>SKY1</i> and <i>IXR1</i> interactions, their effects on cisplatin and spermine resistance in <i>Saccharomyces cerevisiae</i> . <i>Canadian Journal of Microbiology</i> , 2012, 58, 184-188.	1.7	5
86	Editorial for the Special Issue: Thermophiles and Thermozyemes. <i>Microorganisms</i> , 2019, 7, 62.	3.6	5
87	Microfungus-yeast mixed cultures in the degradation of amylaceous wastes. II: An experimental design for optimization of yeast production. <i>Biotechnology Letters</i> , 1988, 2, 171-176.	0.5	4
88	Chromosomal mapping of the <i>KICYC1</i> gene from <i>Kluyveromyces lactis</i> . <i>Genome</i> , 1994, 37, 515-517.	2.0	4
89	A simple form of immobilisation and its effects on morphologic trends and metabolic activity of pellet-forming microfungi. <i>Bioresource Technology</i> , 1994, 48, 237-243.	9.6	4
90	Sequence analysis of a 10 kb DNA fragment from yeast chromosome VII reveals a novel member of the <i>dnaJ</i> family. , 1996, 12, 145-148.		4

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91	Heat-Loving $\beta$ -Galactosidases from Cultured and Uncultured Microorganisms. <i>Current Protein and Peptide Science</i> , 2018, 19, 1224-1234.	1.4	4
92	Characterization of a novel thermophilic metagenomic GH5 endoglucanase heterologously expressed in <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> . , 2022, 15, .		4
93	Proteomic Analyses Reveal that Sky1 Modulates Apoptosis and Mitophagy in <i>Saccharomyces cerevisiae</i> Cells Exposed to Cisplatin. <i>International Journal of Molecular Sciences</i> , 2014, 15, 12573-12590.	4.1	3
94	Advances of Functional Metagenomics in Harnessing Thermozyms. , 2018, , 289-307.		3
95	Structural determination of Enzyme-Graphene Nanocomposite Sensor Material. <i>Scientific Reports</i> , 2019, 9, 15519.	3.3	3
96	The <i>Kluyveromyces lactis</i> gene KLGSK-3 combines functions which in <i>Saccharomyces cerevisiae</i> are performed by MCK1 and MSD1. <i>Current Genetics</i> , 1998, 33, 262-267.	1.7	2
97	Mouse antibody response to a microsporidian parasite following inoculation with a gene coding for parasite ribosomal RNA. <i>Vaccine</i> , 2002, 20, 2648-2655.	3.8	2
98	A functional analysis of <i>KLSRB10</i> : implications in <i>Kluyveromyces lactis</i> transcriptional regulation. <i>Yeast</i> , 2007, 24, 1061-1073.	1.7	2
99	Functional characterization of KIHEM13, a hypoxic gene of <i>Kluyveromyces lactis</i> . <i>Canadian Journal of Microbiology</i> , 2005, 51, 431-431.	1.7	1
100	Two Proteins with Different Functions Are Derived from the <i>KIHEM13</i> Gene. <i>Eukaryotic Cell</i> , 2011, 10, 1331-1339.	3.4	1
101	Reactivity of a Recombinant Esterase from <i>Thermus thermophilus</i> HB27 in Aqueous and Organic Media. <i>Microorganisms</i> , 2022, 10, 915.	3.6	1
102	Bioprospecting for Thermozyms and Characterization of a Novel Lipolytic Thermozyne Belonging to the SGNH/GDSL Family of Hydrolases. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5733.	4.1	1
103	Heterologous <i>Aspergillus niger</i> $\beta$ -galactosidase secretion by <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2007, 131, S199-S200.	3.8	0
104	Archaeal Biocommunication in Hot Springs Revealed by Metagenomics. , 2017, , 85-101.		0
105	Extremophilic Esterases for Bioprocessing of Lignocellulosic Feedstocks. , 2017, , 205-223.		0