

# Maria João M F João M F Sousa

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2119159/publications.pdf>

Version: 2024-02-01

84  
papers

7,420  
citations

186265  
28  
h-index

79698  
73  
g-index

85  
all docs

85  
docs citations

85  
times ranked

15997  
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	<i>Saccharomyces cerevisiae</i> commits to a programmed cell death process in response to acetic acid. <i>Microbiology (United Kingdom)</i> , 2001, 147, 2409-2415.	1.8	467
3	Guidelines and recommendations on yeast cell death nomenclature. <i>Microbial Cell</i> , 2018, 5, 4-31.	3.2	158
4	ADP/ATP carrier is required for mitochondrial outer membrane permeabilization and cytochrome <i>c</i> release in yeast apoptosis. <i>Molecular Microbiology</i> , 2007, 66, 571-582.	2.5	128
5	Mitochondria-dependent apoptosis in yeast. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 1286-1302.	4.1	120
6	Mechanisms underlying the transport and intracellular metabolism of acetic acid in the presence of glucose in the yeast <i>Zygosaccharomyces bailii</i> . <i>Microbiology (United Kingdom)</i> , 1998, 144, 665-670.	1.8	89
7	Transport of acetic acid in <i>Zygosaccharomyces bailii</i> : effects of ethanol and their implications on the resistance of the yeast to acidic environments. <i>Applied and Environmental Microbiology</i> , 1996, 62, 3152-3157.	3.1	82
8	The impact of acetate metabolism on yeast fermentative performance and wine quality: reduction of volatile acidity of grape musts and wines. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 271-280.	3.6	79
9	Mitochondrial degradation in acetic acid-induced yeast apoptosis: the role of Pep4 and the ADP/ATP carrier. <i>Molecular Microbiology</i> , 2010, 76, 1398-1410.	2.5	75
10	YCA1 participates in the acetic acid induced yeast programmed cell death also in a manner unrelated to its caspase-like activity. <i>FEBS Letters</i> , 2006, 580, 6880-6884.	2.8	71
11	Ethanol tolerance of sugar transport, and the rectification of stuck wine fermentations. <i>Microbiology (United Kingdom)</i> , 2008, 154, 422-430.	1.8	64
12	The Genome Sequence of the Highly Acetic Acid-Tolerant <i>Zygosaccharomyces bailii</i> -Derived Interspecies Hybrid Strain ISA1307, Isolated From a Sparkling Wine Plant. <i>DNA Research</i> , 2014, 21, 299-313.	3.4	62
13	Transport of malic acid in the yeast <i>Schizosaccharomyces pombe</i> : Evidence for proton-dicarboxylate symport. <i>Yeast</i> , 1992, 8, 1025-1031.	1.7	58
14	Sugar utilization patterns and respiro-fermentative metabolism in the baker's yeast <i>Torulaspora delbrueckii</i> . <i>Microbiology (United Kingdom)</i> , 2007, 153, 898-904.	1.8	55
15	Small heat-shock protein Hsp12 contributes to yeast tolerance to freezing stress. <i>Microbiology (United Kingdom)</i> , 2009, 155, 2021-2028.	1.8	52
16	Genome-wide identification of genes involved in the positive and negative regulation of acetic acid-induced programmed cell death in <i>Saccharomyces cerevisiae</i> . <i>BMC Genomics</i> , 2013, 14, 838.	2.8	50
17	Modulation of Mitochondrial Outer Membrane Permeabilization and Apoptosis by Ceramide Metabolism. <i>PLoS ONE</i> , 2012, 7, e48571.	2.5	47
18	Activity of Essential Oils from Mediterranean Lamiaceae Species against Food Spoilage Yeasts. <i>Journal of Food Protection</i> , 2003, 66, 625-632.	1.7	46

#	ARTICLE	IF	CITATIONS
19	Yeasts as a model for assessing the toxicity of the fungicides Penconazol, Cymoxanil and Dichlofluanid. <i>Chemosphere</i> , 2000, 41, 1637-1642.	8.2	44
20	Ammonium Is Toxic for Aging Yeast Cells, Inducing Death and Shortening of the Chronological Lifespan. <i>PLoS ONE</i> , 2012, 7, e37090.	2.5	42
21	Dietary Restriction and Nutrient Balance in Aging. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-10.	4.0	41
22	Freeze tolerance of the yeast <i>Torulaspora delbrueckii</i> : cellular and biochemical basis. <i>FEMS Microbiology Letters</i> , 2004, 240, 7-14.	1.8	40
23	<i>Mentha piperita</i> essential oil induces apoptosis in yeast associated with both cytosolic and mitochondrial ROS-mediated damage. <i>FEMS Yeast Research</i> , 2014, 14, n/a-n/a.	2.3	39
24	Colorectal cancer-related mutant <i>KRAS</i> alleles function as positive regulators of autophagy. <i>Oncotarget</i> , 2015, 6, 30787-30802.	1.8	39
25	The yeast model system as a tool towards the understanding of apoptosis regulation by sphingolipids. <i>FEMS Yeast Research</i> , 2014, 14, 160-178.	2.3	38
26	Regulation of Bax/mitochondria interaction by AKT. <i>FEBS Letters</i> , 2016, 590, 13-21.	2.8	37
27	The Fate of Acetic Acid during Glucose Co-Metabolism by the Spoilage Yeast <i>Zygosaccharomyces bailii</i> . <i>PLoS ONE</i> , 2012, 7, e52402.	2.5	33
28	Integrating transcriptomics and metabolomics for the analysis of the aroma profiles of <i>Saccharomyces cerevisiae</i> strains from diverse origins. <i>BMC Genomics</i> , 2017, 18, 455.	2.8	33
29	The Yeast <i>Saccharomyces cerevisiae</i> as a Model for Understanding RAS Proteins and their Role in Human Tumorigenesis. <i>Cells</i> , 2018, 7, 14.	4.1	33
30	Synthesis, characterisation and antimicrobial activity of new benzo[a]phenoxazine based fluorophores. <i>Tetrahedron Letters</i> , 2007, 48, 8347-8352.	1.4	28
31	Regulation of Cell Death Induced by Acetic Acid in Yeasts. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 642375.	3.7	27
32	Rapid detection of efflux pumps and their relation with drug resistance in yeast cells. , 2000, 39, 26-35.		25
33	The Spoilage Yeast <i>Zygosaccharomyces bailii</i> Forms Mitotic Spores: a Screening Method for Haploidization. <i>Applied and Environmental Microbiology</i> , 2003, 69, 649-653.	3.1	25
34	Cell Cycle Analysis of Yeasts. <i>Current Protocols in Cytometry</i> , 2000, 13, Unit 11.13.	3.7	23
35	KRAS as a Modulator of the Inflammatory Tumor Microenvironment: Therapeutic Implications. <i>Cells</i> , 2022, 11, 398.	4.1	23
36	Biotechnological Importance of <i>Torulaspora delbrueckii</i> : From the Obscurity to the Spotlight. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 712.	3.5	22

#	ARTICLE	IF	CITATIONS
37	The protective role of yeast Cathepsin D in acetic acid-induced apoptosis depends on ANT (Aac2p) but not on the voltage-dependent channel (Por1p). <i>FEBS Letters</i> , 2013, 587, 200-205.	2.8	21
38	Cell wall dynamics modulate acetic acid-induced apoptotic cell death of <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell</i> , 2014, 1, 303-314.	3.2	21
39	Ammonium is a key determinant on the dietary restriction of yeast chronological aging in culture medium. <i>Oncotarget</i> , 2015, 6, 6511-6523.	1.8	20
40	VDAC regulates AAC-mediated apoptosis and cytochrome c release in yeast. <i>Microbial Cell</i> , 2016, 3, 500-510.	3.2	20
41	Synthesis of naphtho[2,3-a]phenoxazinium chlorides: Structure-activity relationships of these heterocycles and benzo[a]phenoxazinium chlorides as new antimicrobials. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 3274-3282.	3.0	19
42	Crucial Role of Oncogenic KRAS Mutations in Apoptosis and Autophagy Regulation: Therapeutic Implications. <i>Cells</i> , 2022, 11, 2183.	4.1	18
43	Cloning and characterization of the gene encoding a high-affinity maltose transporter from. <i>FEMS Yeast Research</i> , 2004, 4, 467-476.	2.3	16
44	Vacuole-mitochondrial cross-talk during apoptosis in yeast: a model for understanding lysosome-mitochondria-mediated apoptosis in mammals. <i>Biochemical Society Transactions</i> , 2011, 39, 1533-1537.	3.4	16
45	Differences in the flocculation mechanism of <i>Kluyveromyces marxianus</i> and <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 1992, 14, 213-218.	2.2	15
46	Isolation and characterization of the LGT1 gene encoding a low-affinity glucose transporter from <i>Torulaspora delbrueckii</i> . <i>Yeast</i> , 2005, 22, 165-175.	1.7	15
47	Growth Culture Conditions and Nutrient Signaling Modulating Yeast Chronological Longevity. <i>Oxidative Medicine and Cellular Longevity</i> , 2012, 2012, 1-10.	4.0	14
48	Ammonium-Dependent Shortening of CLS in Yeast Cells Starved for Essential Amino Acids Is Determined by the Specific Amino Acid Deprived, through Different Signaling Pathways. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-10.	4.0	14
49	Isolation of an acetyl-CoA synthetase gene (ZbACS2) from <i>Zygosaccharomyces bailii</i> . <i>Yeast</i> , 2004, 21, 325-331.	1.7	13
50	Identification of novel pentose transporters in <i>Kluyveromyces marxianus</i> using a new screening platform. <i>FEMS Yeast Research</i> , 2021, 21, .	2.3	13
51	The Emerging Role of the Yeast <i>Torulaspora delbrueckii</i> in Bread and Wine Production: Using Genetic Manipulation to Study Molecular Basis of Physiological Responses. , 0, , .		12
52	Synthesis and photophysical studies of new benzo[a]phenoxazinium chlorides as potential antifungal agents. <i>Tetrahedron Letters</i> , 2016, 57, 3936-3941.	1.4	12
53	Contacts in Death: The Role of the ER-Mitochondria Axis in Acetic Acid-Induced Apoptosis in Yeast. <i>Journal of Molecular Biology</i> , 2019, 431, 273-288.	4.2	12
54	A glimpse at an early stage of microbe domestication revealed in the variable genome of <i>Torulaspora delbrueckii</i> , an emergent industrial yeast. <i>Molecular Ecology</i> , 2023, 32, 2396-2412.	3.9	12

#	ARTICLE	IF	CITATIONS
55	Nitrogen and carbon source balance determines longevity, independently of fermentative or respiratory metabolism in the yeast <i>Saccharomyces cerevisiae</i> . <i>Oncotarget</i> , 2016, 7, 23033-23042.	1.8	11
56	Proteasome inhibition prevents cell death induced by the chemotherapeutic agent cisplatin downstream of DNA damage. <i>DNA Repair</i> , 2019, 73, 28-33.	2.8	11
57	Must deacidification with an induced flocculant yeast strain of <i>Schizosaccharomyces pombe</i> . <i>Applied Microbiology and Biotechnology</i> , 1993, 39, 189.	3.6	10
58	Improvement of <i>Torulaspora delbrueckii</i> Genome Annotation: Towards the Exploitation of Genomic Features of a Biotechnologically Relevant Yeast. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 287.	3.5	10
59	Improved gene disruption method for <i>Torulaspora delbrueckii</i> . <i>FEMS Yeast Research</i> , 2009, 9, 158-160.	2.3	9
60	New Nitrogen Compounds Coupled to Phenolic Units with Antioxidant and Antifungal Activities: Synthesis and Structure-Activity Relationship. <i>Molecules</i> , 2018, 23, 2530.	3.8	9
61	Hexose transport in <i>Torulaspora delbrueckii</i> : identification of <i>Igt1</i> , a new dual-affinity transporter. <i>FEMS Yeast Research</i> , 2020, 20, .	2.3	9
62	C2-Phytoceramide Perturbs Lipid Rafts and Cell Integrity in <i>Saccharomyces cerevisiae</i> in a Sterol-Dependent Manner. <i>PLoS ONE</i> , 2013, 8, e74240.	2.5	9
63	Phenolic Imidazole Derivatives with Dual Antioxidant/Antifungal Activity: Synthesis and Structure-Activity Relationship. <i>Medicinal Chemistry</i> , 2019, 15, 341-351.	1.5	9
64	<i>Torulaspora delbrueckii</i> Phenotypic and Metabolic Profiling towards Its Biotechnological Exploitation. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 569.	3.5	9
65	Benzo[a]phenoxazinium chlorides: Synthesis, antifungal activity, in silico studies and evaluation as fluorescent probes. <i>Bioorganic Chemistry</i> , 2020, 98, 103730.	4.1	8
66	The Plasma Membrane at the Cornerstone Between Flexibility and Adaptability: Implications for <i>Saccharomyces cerevisiae</i> as a Cell Factory. <i>Frontiers in Microbiology</i> , 2021, 12, 715891.	3.5	7
67	Squaraine Dyes Derived from Indolenine and Benzo[e]indole as Potential Fluorescent Probes for HSA Detection and Antifungal Agents. <i>Photochemistry and Photobiology</i> , 2022, 98, 1402-1417.	2.5	7
68	Acetic acid triggers cytochrome c release in yeast heterologously expressing human Bax. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2022, 27, 368-381.	4.9	5
69	N-(5-Amino-9H-benzo[a]phenoxazin-9-ylidene)propan-1-aminium chlorides as antifungal agents and NIR fluorescent probes. <i>New Journal of Chemistry</i> , 2021, 45, 7808-7815.	2.8	4
70	New NIR dyes based on quinolizino[1,9-hi]phenoxazin-6-iminium chlorides: synthesis, photophysics and antifungal activity. <i>Dyes and Pigments</i> , 2020, 173, 107870.	3.7	3
71	<i>Saccharomyces cerevisiae</i> Cells Lacking the Zinc Vacuolar Transporter <i>Zrt3</i> Display Improved Ethanol Productivity in Lignocellulosic Hydrolysates. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 78.	3.5	3
72	Development of an automated yeast-based spectrophotometric method for toxicity screening: Application to ionic liquids, GUMBOS, and deep eutectic solvents. <i>Chemosphere</i> , 2021, 277, 130227.	8.2	2

#	ARTICLE	IF	CITATIONS
73	Novel Nile Blue Analogue Stains Yeast Vacuolar Membrane, Endoplasmic Reticulum, and Lipid Droplets, Inducing Cell Death through Vacuole Membrane Permeabilization. Journal of Fungi (Basel, TJ ETQq1 1 0.784314 rg85/Overlock 10 Tf 50	3.5	2
74	Whole-Genome Sequencing and Annotation of the Yeast <i>Clavispora santaluciae</i> Reveals Important Insights about Its Adaptation to the Vineyard Environment. Journal of Fungi (Basel, Switzerland), 2022, 8, 52.	3.5	2
75	Lactate Induces Cisplatin Resistance in <i>S. cerevisiae</i> through a Rad4p-Dependent Process. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-8.	4.0	1
76	Effects of ethanol and acetic acid on the transport of malic acid and glucose in the yeast <i>Schizosaccharomyces pombe</i> : implications in wine deacidification. FEMS Microbiology Letters, 1995, 126, 197-202.	1.8	1
77	Construction of a genomic library of the food spoilage yeast and isolation of the $\beta$ -isopropylmalate dehydrogenase gene ( <i>idh1</i> ). FEMS Yeast Research, 2001, 1, 67-71.	2.3	0
78	Vacuole-mitochondrial cross-talk during apoptosis in yeast: a model for understanding lysosome-mitochondria-mediated apoptosis in mammals. Biochemical Society Transactions, 2011, 39, 1901-1901.	3.4	0
79	The yeast model system as a tool towards the understanding of apoptosis regulation by sphingolipids. FEMS Yeast Research, 2014, 14, 995-995.	2.3	0
80	New Nile Blue Derivatives as NIR Fluorescent Probes and Antifungal Agents. Proceedings (mdpi), 2018, 9, .	0.2	0
81	<i>Zygosaccharomyces bailii</i> : A Yeast With a Peculiar Pattern for the Regulation of Acetic Acid Metabolism in the Presence of Glucose. , 2003, , 409-416.		0
82	<strong>Benzo[</strong><em></em><strong>a</strong></strong><em></em><strong>]phenoxazinium chlorides functionalized with chloride atoms and/or ester groups</strong>. , 0, , .		0
83	Evaluation of Fluorescent Staining Capacity of Two New Nile Blue Analogues. Chemistry Proceedings, 2020, 3, .	0.1	0
84	Two Symmetrical Squarylium Cyanine Dyes: Synthesis, Photophysics and Antifungal Activity in <i>Saccharomyces cerevisiae</i> . Chemistry Proceedings, 2020, 3, .	0.1	0