

# Sonia Colombo

## List of Publications by Year in descending order

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33  
papers

963  
citations

430874

18  
h-index

454955

30  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1129  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nutrient-induced signal transduction through the protein kinase A pathway and its role in the control of metabolism, stress resistance, and growth in yeast. <i>Enzyme and Microbial Technology</i> , 2000, 26, 819-825.	3.2	122
2	Activation State of the Ras2 Protein and Glucose-induced Signaling in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 46715-46722.	3.4	116
3	Whi2p links nutritional sensing to actin-dependent Ras-cAMP-PKA regulation and apoptosis in yeast. <i>Journal of Cell Science</i> , 2009, 122, 706-715.	2.0	88
4	Role of guanine nucleotides in the regulation of the Ras/cAMP pathway in <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2001, 1538, 181-189.	4.1	47
5	Modeling and stochastic simulation of the Ras/cAMP/PKA pathway in the yeast <i>Saccharomyces cerevisiae</i> evidences a key regulatory function for intracellular guanine nucleotides pools. <i>Journal of Biotechnology</i> , 2008, 133, 377-385.	3.8	46
6	Purification and characterization of a thermostable carboxypeptidase from the extreme thermophilic archaeobacterium <i>Sulfolobus solfataricus</i> . <i>FEBS Journal</i> , 1992, 206, 349-357.	0.2	43
7	A mutation in <i>Saccharomyces cerevisiae</i> adenylate cyclase, Cyr1K1876M, specifically affects glucose- and acidification-induced cAMP signalling and not the basal cAMP level. <i>Molecular Microbiology</i> , 1999, 33, 363-376.	2.5	41
8	Design, Synthesis and Biological Evaluation of Sugar-Derived Ras Inhibitors. <i>ChemBioChem</i> , 2005, 6, 1839-1848.	2.6	39
9	Lack of HXK2 Induces Localization of Active Ras in Mitochondria and Triggers Apoptosis in the Yeast <i>Saccharomyces cerevisiae</i> . <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-10.	4.0	35
10	Characterization of a new set of mutants deficient in fermentation-induced loss of stress resistance for use in frozen dough applications. <i>International Journal of Food Microbiology</i> , 2000, 55, 187-192.	4.7	32
11	Design, Synthesis, and Biological Evaluation of Levoglucosenone-Derived Ras Activation Inhibitors. <i>ChemMedChem</i> , 2009, 4, 524-528.	3.2	31
12	Live-cell imaging of endogenous Ras-GTP shows predominant Ras activation at the plasma membrane and in the nucleus in <i>Saccharomyces cerevisiae</i> . <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 384-394.	2.8	31
13	Simulation of the Ras/cAMP/PKA pathway in budding yeast highlights the establishment of stable oscillatory states. <i>Biotechnology Advances</i> , 2012, 30, 99-107.	11.7	28
14	The role of feedback control mechanisms on the establishment of oscillatory regimes in the Ras/cAMP/PKA pathway in <i>S. cerevisiae</i> . <i>Eurasip Journal on Bioinformatics and Systems Biology</i> , 2012, 2012, 10.	1.4	26
15	Sugar-Derived Ras Inhibitors: Group Epitope Mapping by NMR Spectroscopy and Biological Evaluation. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 3707-3720.	2.4	24
16	Glucose-Derived Ras Pathway Inhibitors: Evidence of Ras-Ligand Binding and Ras-GEF (Cdc25) Interaction Inhibition. <i>ChemBioChem</i> , 2007, 8, 1376-1379.	2.6	23
17	Characterization and Properties of Dominant-negative Mutants of the Ras-specific Guanine Nucleotide Exchange Factor CDC25Mm. <i>Journal of Biological Chemistry</i> , 1999, 274, 36656-36662.	3.4	21
18	The transcription factor Swi4 is target for PKA regulation of cell size at the G <sub>1</sub> to S transition in <i>Saccharomyces cerevisiae</i> . <i>Cell Cycle</i> , 2015, 14, 2429-2438.	2.6	20

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19	Involvement of Aif1 in apoptosis triggered by lack of Hxk2 in the yeast <i>Saccharomyces cerevisiae</i> . FEMS Yeast Research, 2016, 16, fow016.	2.3	20
20	Molecular cloning, nucleotide sequence and expression of a <i>Sulfolobus solfataricus</i> gene encoding a class II fumarase. FEBS Letters, 1994, 337, 93-98.	2.8	19
21	Detection of cAMP and of PKA activity in <i>Saccharomyces cerevisiae</i> single cells using Fluorescence Resonance Energy Transfer (FRET) probes. Biochemical and Biophysical Research Communications, 2017, 487, 594-599.	2.1	19
22	Introducing fluorescence resonance energy transfer-based biosensors for the analysis of cAMP-PKA signalling in the fungal pathogen <i>Candida glabrata</i> . Cellular Microbiology, 2018, 20, e12863.	2.1	14
23	Design and Characterization of a New Class of Inhibitors of Ras Activation. Annals of the New York Academy of Sciences, 2004, 1030, 52-61.	3.8	13
24	The large N-terminal domain of Cdc25 protein of the yeast <i>Saccharomyces cerevisiae</i> is required for glucose-induced Ras2 activation. FEMS Yeast Research, 2007, 7, 1270-1275.	2.3	12
25	A specific mutation in <i>Saccharomyces cerevisiae</i> 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
26	Structure-Activity Studies on Arylamides and Arylsulfonamides Ras Inhibitors. Current Cancer Drug Targets, 2010, 10, 192-199.	1.6	9
27	Lack of SNF1 induces localization of active Ras in mitochondria and triggers apoptosis in the yeast <i>Saccharomyces cerevisiae</i> . Biochemical and Biophysical Research Communications, 2020, 523, 130-134.	2.1	7
28	Nuclear Ras2-GTP Controls Invasive Growth in <i>Saccharomyces cerevisiae</i> . PLoS ONE, 2013, 8, e79274.	2.5	6
29	Evidence for adenylate cyclase as a scaffold protein for Ras2-IRA interaction in <i>Saccharomyces cerevisiae</i> . Cellular Signalling, 2014, 26, 1147-1154.	3.6	6
30	Antagonism between salicylate and the cAMP signal controls yeast cell survival and growth recovery from quiescence. Microbial Cell, 2018, 5, 344-356.	3.2	5
31	Fast detection of PKA activity in <i>Saccharomyces cerevisiae</i> cell population using AKAR fluorescence resonance energy transfer probes. Cellular Signalling, 2022, 92, 110262.	3.6	5
32	Methods to Study the Ras2 Protein Activation State and the Subcellular Localization of Ras-GTP in <i>Saccharomyces cerevisiae</i> . Methods in Molecular Biology, 2014, 1120, 391-405.	0.9	3
33	In <i>S. cerevisiae</i> hydroxycitric acid antagonizes chronological aging and apoptosis regardless of citrate lyase. Apoptosis: an International Journal on Programmed Cell Death, 2020, 25, 686-696.	4.9	2