Riccardo Percudani

List of Publications by Citations

59 papers	2,775 citations	25 h-index	52 g-index
62 ext. papers	3,125 ext. citations	6.7 avg, IF	4.78 L-index

#	Paper	IF	Citations
59	P□igord black truffle genome uncovers evolutionary origins and mechanisms of symbiosis. *Nature*, **2010**, 464, 1033-8	50.4	545
58	A genomic overview of pyridoxal-phosphate-dependent enzymes. *EMBO Reports*, **2003**, 4, 850-4	6.5	353
57	Transfer RNA gene redundancy and translational selection in Saccharomyces cerevisiae. *Journal of Molecular Biology*, **1997**, 268, 322-30	6.5	246
56	The B6 database: a tool for the description and classification of vitamin B6-dependent enzymatic activities and of the corresponding protein families. *BMC Bioinformatics*, **2009**, 10, 273	3.6	179
55	Completing the uric acid degradation pathway through phylogenetic comparison of whole genomes. *Nature Chemical Biology*, **2006**, 2, 144-8	11.7	167
54	Sequence context effects on oligo(dT) termination signal recognition by Saccharomyces cerevisiae RNA polymerase III. *Journal of Biological Chemistry*, **2005**, 280, 19551-62	5.4	83
53	Molecular phylogeny of truffles (Pezizales: Terfeziaceae, Tuberaceae) derived from nuclear rDNA sequence analysis. *Molecular Phylogenetics and Evolution*, **1999**, 13, 169-80	4.1	76
52	A maize gene encoding an NADPH binding enzyme highly homologous to isoflavone reductases is activated in response to sulfur starvation. *Plant Cell*, **1996**, 8, 69-80	11.6	76
51	A nutrient-regulated, dual localization phospholipase A(2) in the symbiotic fungus Tuber borchii. *EMBO Journal*, **2001**, 20, 5079-90	13	68
50	Conserved alternative splicing of Arabidopsis transthyretin-like determines protein localization and S-allantoin synthesis in peroxisomes. *Plant Cell*, **2010**, 22, 1564-74	11.6	57
49	A high-affinity ammonium transporter from the mycorrhizal ascomycete Tuber borchii. *Fungal Genetics and Biology*, **2002**, 36, 22-34	3.9	56
48	TFIIIC-independent in vitro transcription of yeast tRNA genes. *Journal of Molecular Biology*, **2000**, 299, 601-13	6.5	56
47	Widespread occurrence of non-canonical transcription termination by human RNA polymerase III. *Nucleic Acids Research*, **2011**, 39, 5499-512	20.1	48
46	A composite upstream sequence motif potentiates tRNA gene transcription in yeast. *Journal of Molecular Biology*, **2003**, 333, 1-20	6.5	48
45	Structure of zebra fish HIUase: insights into evolution of an enzyme to a hormone transporter. *Journal of Molecular Biology*, **2006**, 363, 1-9	6.5	47
44	The anti-HIV cyanovirin-N domain is evolutionarily conserved and occurs as a protein module in eukaryotes. *Proteins: Structure, Function and Bioinformatics*, **2005**, 60, 670-8	4.2	40
43	Chemical basis of nitrogen recovery through the ureide pathway: formation and hydrolysis of S-ureidoglycine in plants and bacteria. *ACS Chemical Biology*, **2010**, 5, 203-14	4.9	39

42	Intragenic promoter adaptation and facilitated RNA polymerase III recycling in the transcription of SCR1, the 7SL RNA gene of Saccharomyces cerevisiae. *Journal of Biological Chemistry*, **2002**, 277, 6903-14	5.4	39
41	Gene expression profiling in human age-related nuclear cataract. *Molecular Vision*, **2003**, 9, 538-48	2.3	38
40	The structure of 2-oxo-4-hydroxy-4-carboxy-5-ureidoimidazoline decarboxylase provides insights into the mechanism of uric acid degradation. *Journal of Biological Chemistry*, **2007**, 282, 18182-18189	5.4	37
39	Logical identification of an allantoinase analog (puuE) recruited from polysaccharide deacetylases. *Journal of Biological Chemistry*, **2008**, 283, 23295-304	5.4	36
38	Restricted wobble rules for eukaryotic genomes. *Trends in Genetics*, **2001**, 17, 133-5	8.5	35
37	Selection at the wobble position of codons read by the same tRNA in Saccharomyces cerevisiae. *Molecular Biology and Evolution*, **1999**, 16, 1752-62	8.3	33
36	Nucleosome depletion activates poised RNA polymerase III at unconventional transcription sites in Saccharomyces cerevisiae. *Journal of Biological Chemistry*, **2006**, 281, 29155-64	5.4	27
35	Structural recognition of DNA by poly(ADP-ribose)polymerase-like zinc finger families. *FEBS Journal* , **2008**, 275, 883-93	5.7	26
34	A recent class of chemosensory neurons developed in mouse and rat. *PLoS ONE*, **2011**, 6, e24462	3.7	23
33	Recombinant production of eight human cytosolic aminotransferases and assessment of their potential involvement in glyoxylate metabolism. *Biochemical Journal*, **2009**, 422, 265-72	3.8	21
32	An aminotransferase branch point connects purine catabolism to amino acid recycling. *Nature Chemical Biology*, **2010**, 6, 801-6	11.7	20
31	A Microbial Metagenome (Leucobacter sp.) in Caenorhabditis Whole Genome Sequences. *Bioinformatics and Biology Insights*, **2013**, 7, 55-72	5.3	19
30	Toward the identification of a type I toxin-antitoxin system in the plasmid DNA of dairy Lactobacillus rhamnosus. *Scientific Reports*, **2017**, 7, 12051	4.9	17
29	Probing the evolution of hydroxyisourate hydrolase into transthyretin through active-site redesign. *Journal of Molecular Biology*, **2011**, 409, 504-12	6.5	15
28	A threonine synthase homolog from a mammalian genome. *Biochemical and Biophysical Research Communications*, **2006**, 350, 922-8	3.4	15
27	Evolution of the Selenoproteome in Helicobacter pylori and Epsilonproteobacteria. *Genome Biology and Evolution*, **2015**, 7, 2692-704	3.9	14
26	Ligand-binding specificity of an invertebrate (Manduca sexta) putative cellular retinoic acid binding protein. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2005**, 1747, 229-37	4	14
25	Catalysis and Structure of Zebrafish Urate Oxidase Provide Insights into the Origin of Hyperuricemia in Hominoids. *Scientific Reports*, **2016**, 6, 38302	4.9	14

24	The structure of Helicobacter pylori HP0310 reveals an atypical peptidoglycan deacetylase. *PLoS ONE*, **2011**, 6, e19207	3.7	13
23	Ureidoglycolate hydrolase, amidohydrolase, lyase: how errors in biological databases are incorporated in scientific papers and vice versa. *Database: the Journal of Biological Databases and Curation*, **2013**, 2013, bat071	5	12
22	Structural and functional insights into (S)-ureidoglycine aminohydrolase, key enzyme of purine catabolism in Arabidopsis thaliana. *Journal of Biological Chemistry*, **2012**, 287, 18796-805	5.4	12
21	Gene expression profile of Vitamin D3 treated HL60 cells shows an incomplete molecular phenotypic conversion to monocytes. *Cell Death and Differentiation*, **2002**, 9, 1185-95	12.7	11
20	Absolute stereochemistry and preferred conformations of urate degradation intermediates from computed and experimental circular dichroism spectra. *Organic and Biomolecular Chemistry*, **2011**, 9, 5149-55	3.9	10
19	Evolution of spatially coexpressed families of type-2 vomeronasal receptors in rodents. *Genome Biology and Evolution*, **2014**, 7, 272-85	3.9	9
18	A Trivalent Enzymatic System for Uricolytic Therapy of HPRT Deficiency and Lesch-Nyhan Disease. *Pharmaceutical Research*, **2017**, 34, 1477-1490	4.5	8
17	Glutamine 89 is a key residue in the allosteric modulation of human serine racemase activity by ATP. *Scientific Reports*, **2018**, 8, 9016	4.9	8
16	The identification of an integral membrane, cytochrome c urate oxidase completes the catalytic repertoire of a therapeutic enzyme. *Scientific Reports*, **2015**, 5, 13798	4.9	8
15	A Maize Gene Encoding an NADPH Binding Enzyme Highly Homologous to Isoflavone Reductases Is Activated in Response to Sulfur Starvation. *Plant Cell*, **1996**, 8, 69	11.6	8
14	Fluorescence quantification of allantoin in biological samples by cap-immobilized allantoinase/resorcinol assay. *Sensors and Actuators B: Chemical*, **2018**, 255, 2820-2828	8.5	7
13	Gene context analysis reveals functional divergence between hypothetically equivalent enzymes of the purine-ureide pathway. *Biochemistry*, **2014**, 53, 735-45	3.2	7
12	The renal phenotype of allopurinol-treated HPRT-deficient mouse. *PLoS ONE*, **2017**, 12, e0173512	3.7	6
11	The Structure and Function of a Microbial Allantoin Racemase Reveal the Origin and Conservation of a Catalytic Mechanism. *Biochemistry*, **2016**, 55, 6421-6432	3.2	6
10	Female mouse tears contain an anti-aggression pheromone. *Scientific Reports*, **2020**, 10, 2510	4.9	4
9	Immobilization of Allantoinase for the Development of an Optical Biosensor of Oxidative Stress States. *Sensors*, **2019**, 20,	3.8	4
8	Birth of a pathway for sulfur metabolism in early amniote evolution. *Nature Ecology and Evolution*, **2020**, 4, 1239-1246	12.3	2
7	Diatom Allantoin Synthase Provides Structural Insights into Natural Fusion Protein Therapeutics. *ACS Chemical Biology*, **2018**, 13, 2237-2246	4.9	2

List of Publications

6	The crystal structure of Helicobacter pylori HP1029 highlights the functional diversity of the sialic acid-related DUF386 family. *FEBS Journal*, **2015**, 282, 3311-22	5.7	2
5	A novel algorithm for the search of 5S rRNA genes in DNA databases: comparison with other methods and identification of new potential 5S rRNA genes. *DNA Sequence*, **1997**, 7, 165-77		2
4	Vertebrate 5-Hydroxyisourate Hydrolase Identification, Function, Structure, and Evolutionary Relationship with Transthyretin **2009**, 95-108		2
3	Actin-Resistant DNase1L2 as a Potential Therapeutics for CF Lung Disease. *Biomolecules*, **2021**, 11,	5.9	2
2	Heme binding and peroxidase activity of a secreted minicatalase. *FEBS Letters*, **2016**, 590, 4495-4506	3.8	1
1	The peroxisomal SspA protein is redundant for purine utilization but essential for peroxisome localization in septal pores in Aspergillus nidulans. *Fungal Genetics and Biology*, **2019**, 132, 103259	3.9	1