

# Luciano F Huergo

## List of Publications by Citations

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75  
papers

1,320  
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20  
h-index

33  
g-index

87  
ext. papers

1,608  
ext. citations

4.2  
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L-index

#	Paper	IF	Citations
75	The Emergence of 2-Oxoglutarate as a Master Regulator Metabolite. <i>Microbiology and Molecular Biology Reviews</i> , <b>2015</b> , 79, 419-35	13.2	143
74	P(II) signal transduction proteins: nitrogen regulation and beyond. <i>FEMS Microbiology Reviews</i> , <b>2013</b> , 37, 251-83	15.1	134
73	A new P(II) protein structure identifies the 2-oxoglutarate binding site. <i>Journal of Molecular Biology</i> , <b>2010</b> , 400, 531-9	6.5	62
72	PII signal transduction proteins: pivotal players in post-translational control of nitrogenase activity. <i>Microbiology (United Kingdom)</i> , <b>2012</b> , 158, 176-190	2.9	57
71	ADP-ribosylation of dinitrogenase reductase in <i>Azospirillum brasilense</i> is regulated by AmtB-dependent membrane sequestration of DraG. <i>Molecular Microbiology</i> , <b>2006</b> , 59, 326-37	4.1	56
70	Ternary complex formation between AmtB, GlnZ and the nitrogenase regulatory enzyme DraG reveals a novel facet of nitrogen regulation in bacteria. <i>Molecular Microbiology</i> , <b>2007</b> , 66, 1523-35	4.1	47
69	The bacterial signal transduction protein GlnB regulates the committed step in fatty acid biosynthesis by acting as a dissociable regulatory subunit of acetyl-CoA carboxylase. <i>Molecular Microbiology</i> , <b>2015</b> , 95, 1025-35	4.1	45
68	Interactions between PII proteins and the nitrogenase regulatory enzymes DraT and DraG in <i>Azospirillum brasilense</i> . <i>FEBS Letters</i> , <b>2006</b> , 580, 5232-6	3.8	39
67	Interaction of the Nitrogen Regulatory Protein GlnB (P) with Biotin Carboxyl Carrier Protein (BCCP) Controls Acetyl-CoA Levels in the Cyanobacterium sp. PCC 6803. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1700	5.7	34
66	Nitrogen fixation control in <i>Herbaspirillum seropedicae</i> . <i>Plant and Soil</i> , <b>2012</b> , 356, 197-207	4.2	33
65	Rapid identification of bacterial isolates from wheat roots by high resolution whole cell MALDI-TOF MS analysis. <i>Journal of Biotechnology</i> , <b>2013</b> , 165, 167-74	3.7	32
64	Genomic comparison of the endophyte <i>Herbaspirillum seropedicae</i> SmR1 and the phytopathogen <i>Herbaspirillum rubrisubalbicans</i> M1 by suppressive subtractive hybridization and partial genome sequencing. <i>FEMS Microbiology Ecology</i> , <b>2012</b> , 80, 441-51	4.3	31
63	Crystal structure of the GlnZ-DraG complex reveals a different form of PII-target interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 18972-6	11.5	31
62	In vitro interactions between the PII proteins and the nitrogenase regulatory enzymes dinitrogenase reductase ADP-ribosyltransferase (DraT) and dinitrogenase reductase-activating glycohydrolase (DraG) in <i>Azospirillum brasilense</i> . <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 6674-82	5.4	28
61	Comparative proteome analysis of <i>Xanthomonas campestris</i> pv. <i>campestris</i> in the interaction with the susceptible and the resistant cultivars of <i>Brassica oleracea</i> . <i>FEMS Microbiology Letters</i> , <b>2009</b> , 298, 260-6	2.9	28
60	Search for novel targets of the PII signal transduction protein in Bacteria identifies the BCCP component of acetyl-CoA carboxylase as a PII binding partner. <i>Molecular Microbiology</i> , <b>2014</b> , 91, 751-61	4.1	27
59	<i>Campylobacter jejuni</i> Dps protein binds DNA in the presence of iron or hydrogen peroxide. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 1970-8	3.5	23

58	Magnetic Bead-Based Immunoassay Allows Rapid, Inexpensive, and Quantitative Detection of Human SARS-CoV-2 Antibodies. <i>ACS Sensors</i> , <b>2021</b> , 6, 703-708	9.2	22
57	A simple, economical and reproducible protein extraction protocol for proteomics studies of soybean roots. <i>Genetics and Molecular Biology</i> , <b>2012</b> , 35, 348-52	2	21
56	Regulation of nitrogenase by reversible mono-ADP-ribosylation. <i>Current Topics in Microbiology and Immunology</i> , <b>2015</b> , 384, 89-106	3.3	20
55	Heat stability of Proteobacterial PII protein facilitate purification using a single chromatography step. <i>Protein Expression and Purification</i> , <b>2012</b> , 81, 83-88	2	18
54	Proteomic analysis of <i>Herbaspirillum seropedicae</i> reveals ammonium-induced AmtB-dependent membrane sequestration of PII proteins. <i>FEMS Microbiology Letters</i> , <b>2010</b> , 308, 40-7	2.9	18
53	Draft genome sequence of <i>Herbaspirillum lusitanum</i> P6-12, an endophyte isolated from root nodules of <i>Phaseolus vulgaris</i> . <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 4136-7	3.5	18
52	Proteomic analysis of <i>Herbaspirillum seropedicae</i> cultivated in the presence of sugar cane extract. <i>Journal of Proteome Research</i> , <b>2013</b> , 12, 1142-50	5.6	17
51	The nitrogenase regulatory enzyme dinitrogenase reductase ADP-ribosyltransferase (DraT) is activated by direct interaction with the signal transduction protein GlnB. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 279-86	3.5	17
50	Influence of the ADP/ATP ratio, 2-oxoglutarate and divalent ions on <i>Azospirillum brasilense</i> PII protein signalling. <i>Microbiology (United Kingdom)</i> , <b>2012</b> , 158, 1656-1663	2.9	17
49	Crystal structure of dinitrogenase reductase-activating glycohydrolase (DraG) reveals conservation in the ADP-ribosylhydrolase fold and specific features in the ADP-ribose-binding pocket. <i>Journal of Molecular Biology</i> , <b>2009</b> , 390, 737-46	6.5	17
48	Regulation of glnB gene promoter expression in <i>Azospirillum brasilense</i> by the NtrC protein. <i>FEMS Microbiology Letters</i> , <b>2003</b> , 223, 33-40	2.9	16
47	A broad pH range and processive chitinase from a metagenome library. <i>Brazilian Journal of Medical and Biological Research</i> , <b>2017</b> , 50, e5658	2.8	15
46	Interaction of GlnK with the GAF domain of <i>Herbaspirillum seropedicae</i> NifA mediates NH <sub>4</sub> <sup>+</sup> -regulation. <i>Biochimie</i> , <b>2012</b> , 94, 1041-7	4.6	14
45	Dynamics of the <i>Escherichia coli</i> proteome in response to nitrogen starvation and entry into the stationary phase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2017</b> , 1865, 344-352	4	13
44	Identification of six differentially accumulated proteins of <i>Zea mays</i> seedlings (DKB240 variety) inoculated with <i>Azospirillum brasilense</i> strain FP2. <i>European Journal of Soil Biology</i> , <b>2013</b> , 58, 45-50	2.9	13
43	Use of nitrogen-fixing bacteria to improve agricultural productivity. <i>BMC Proceedings</i> , <b>2014</b> , 8,	2.3	13
42	Influence of ancient anthropogenic activities on the mangrove soil microbiome. <i>Science of the Total Environment</i> , <b>2018</b> , 645, 1-9	10.2	12
41	In vitro interaction between the ammonium transport protein AmtB and partially uridylylated forms of the P(II) protein GlnZ. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2011</b> , 1814, 1203-9	4	12

40	Effect of the over-expression of PII and PZ proteins on the nitrogenase activity of <i>Azospirillum brasilense</i> . <i>FEMS Microbiology Letters</i> , <b>2005</b> , 253, 47-54	2.9	12
39	Uncovering prokaryotic biodiversity within aerosols of the pristine Amazon forest. <i>Science of the Total Environment</i> , <b>2019</b> , 688, 83-86	10.2	11
38	Proteomic analysis of upland rice ( <i>Oryza sativa</i> L.) exposed to intermittent water deficit. <i>Protein Journal</i> , <b>2014</b> , 33, 221-30	3.9	10
37	Effects of over-expression of the regulatory enzymes DraT and DraG on the ammonium-dependent post-translational regulation of nitrogenase reductase in <i>Azospirillum brasilense</i> . <i>Archives of Microbiology</i> , <b>2005</b> , 183, 209-17	3	10
36	Proteome analysis of an <i>Escherichia coli</i> ptsN-null strain under different nitrogen regimes. <i>Journal of Proteomics</i> , <b>2018</b> , 174, 28-35	3.9	9
35	Uridylylation of <i>Herbaspirillum seropedicae</i> GlnB and GlnK proteins is differentially affected by ATP, ADP and 2-oxoglutarate in vitro. <i>Archives of Microbiology</i> , <b>2012</b> , 194, 643-52	3	9
34	Mathematical model of the binding of allosteric effectors to the <i>Escherichia coli</i> PII signal transduction protein GlnB. <i>Biochemistry</i> , <b>2013</b> , 52, 2683-93	3.2	9
33	Role of conserved cysteine residues in <i>Herbaspirillum seropedicae</i> NifA activity. <i>Research in Microbiology</i> , <b>2009</b> , 160, 389-95	4	9
32	First partial proteome of the poultry pathogen <i>Mycoplasma synoviae</i> . <i>Veterinary Microbiology</i> , <b>2010</b> , 145, 134-41	3.3	9
31	Matrix-assisted laser desorption ionization-time of flight mass spectrometry analysis of <i>Escherichia coli</i> categories. <i>Genetics and Molecular Research</i> , <b>2014</b> , 13, 716-22	1.2	8
30	The ammonium transporter AmtB and the PII signal transduction protein GlnZ are required to inhibit DraG in <i>Azospirillum brasilense</i> . <i>FEBS Journal</i> , <b>2019</b> , 286, 1214-1229	5.7	8
29	2-Oxoglutarate levels control adenosine nucleotide binding by <i>Herbaspirillum seropedicae</i> PII proteins. <i>FEBS Journal</i> , <b>2015</b> , 282, 4797-809	5.7	7
28	Proteomic and Metabolomic Analysis of Mutant under High and Low Nitrogen Conditions. <i>Journal of Proteome Research</i> , <b>2020</b> , 19, 92-105	5.6	7
27	Effect of ATP and 2-oxoglutarate on the in vitro interaction between the NifA GAF domain and the GlnB protein of <i>Azospirillum brasilense</i> . <i>Brazilian Journal of Medical and Biological Research</i> , <b>2012</b> , 45, 1135-40	2.8	6
26	NAD biosynthesis in bacteria is controlled by global carbon/nitrogen levels via PII signaling. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 6165-6176	5.4	5
25	Kinetics and structural features of dimeric glutamine-dependent bacterial NAD synthetases suggest evolutionary adaptation to available metabolites. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 7397-7407	5.4	4
24	<i>Azospirillum brasilense</i> PII proteins GlnB and GlnZ do not form heterotrimers and GlnB shows a unique trimeric uridylylation pattern. <i>European Journal of Soil Biology</i> , <b>2009</b> , 45, 94-99	2.9	4
23	Fatty acid biosynthesis is enhanced in <i>Escherichia coli</i> strains with deletion in genes encoding the PII signaling proteins. <i>Archives of Microbiology</i> , <b>2019</b> , 201, 209-214	3	4

22	The NADP-dependent malic enzyme MaeB is a central metabolic hub controlled by the acetyl-CoA to CoASH ratio. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2020</b> , 1868, 140462	4	3
21	Mutational analysis of GlnB residues critical for NifA activation in <i>Azospirillum brasilense</i> . <i>Microbiological Research</i> , <b>2015</b> , 171, 65-72	5.3	3
20	Comparative proteomic analysis between early developmental stages of the <i>Coffea arabica</i> fruits. <i>Genetics and Molecular Research</i> , <b>2013</b> , 12, 5102-10	1.2	3
19	Proteins differentially expressed by Shiga toxin-producing <i>Escherichia coli</i> strain M03 due to the biliar salt sodium deoxycholate. <i>Genetics and Molecular Research</i> , <b>2013</b> , 12, 4909-17	1.2	3
18	Conserved histidine residues at the ferroxidase centre of the <i>Campylobacter jejuni</i> Dps protein are not strictly required for metal binding and oxidation. <i>Microbiology (United Kingdom)</i> , <b>2016</b> , 162, 156-163	2.9	3
17	The Protein-Protein Interaction Network Reveals a Novel Role of the Signal Transduction Protein PII in the Control of c-di-GMP Homeostasis in <i>Azospirillum brasilense</i> . <i>MSystems</i> , <b>2020</b> , 5,	7.6	3
16	Proteomic profile of hemolymph and detection of induced antimicrobial peptides in response to microbial challenge in <i>Diatraea saccharalis</i> (Lepidoptera: Crambidae). <i>Biochemical and Biophysical Research Communications</i> , <b>2016</b> , 473, 511-6	3.4	3
15	Purification of the <i>Campylobacter jejuni</i> Dps protein assisted by its high melting temperature. <i>Protein Expression and Purification</i> , <b>2015</b> , 111, 105-10	2	2
14	Magnetic bead-based ELISA allow inexpensive, rapid and quantitative detection of human antibodies against SARS-CoV-2		2
13	Regulation of <i>Herbaspirillum seropedicae</i> NifA by the GlnK PII signal transduction protein is mediated by effectors binding to allosteric sites. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2020</b> , 1868, 140348	4	2
12	In vitro characterization of the NAD <sup>+</sup> synthetase NadE1 from <i>Herbaspirillum seropedicae</i> . <i>Archives of Microbiology</i> , <b>2016</b> , 198, 307-13	3	1
11	How Does the DraGBII Complex Regulate Nitrogenase Activity in <i>Azospirillum brasilense</i> ? <b>2015</b> , 139-146		1
10	Repressor mutant forms of the <i>Azospirillum brasilense</i> NtrC protein. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 6320-3	4.8	1
9	Influence of seasonality on the aerosol microbiome of the Amazon rainforest. <i>Science of the Total Environment</i> , <b>2021</b> , 760, 144092	10.2	1
8	Ultra-fast, high throughput and inexpensive detection of SARS-CoV-2 seroconversion using Ni magnetic beads. <i>Analytical Biochemistry</i> , <b>2021</b> , 631, 114360	3.1	1
7	Kinetic Analysis of a Protein-protein Complex to Determine its Dissociation Constant (K) and the Effective Concentration (EC) of an Interplaying Effector Molecule Using Bio-layer Interferometry. <i>Bio-protocol</i> , <b>2021</b> , 11, e4152	0.9	0
6	Antigen production and development of an indirect ELISA based on the nucleocapsid protein to detect human SARS-CoV-2 seroconversion. <i>Brazilian Journal of Microbiology</i> , <b>2021</b> , 52, 2069-2073	2.2	0
5	The protein-protein interaction network of the <i>Escherichia coli</i> EIIA regulatory protein reveals a role in cell motility and metabolic control. <i>Research in Microbiology</i> , <b>2021</b> , 172, 103882	4	0

- 4 Characterization of glutamine synthetase from the ammonium-excreting strain HM053 of *Azospirillum brasilense*. *Brazilian Journal of Biology*, **2021**, 82, e235927 1.5 ○
- 3 A magnetic bead immunoassay to detect high affinity human IgG reactive to SARS-CoV-2 Spike S1 RBD produced in *Escherichia coli*.. *Brazilian Journal of Microbiology*, **2022**, 1 2.2 ○
- 2 Expression and purification of untagged GlnK proteins from actinobacteria. *EXCLI Journal*, **2017**, 16, 949-958 2.5
- 1 The microbiome of a shell mound: ancient anthropogenic waste as a source of *Streptomyces* degrading recalcitrant polysaccharides. *World Journal of Microbiology and Biotechnology*, **2021**, 37, 210 4.4