Luciano F Huergo

List of Publications by Year in Descending Order

75 papers	1,320 citations	20 h-index	33 g-index
87 ext. papers	1,608 ext. citations	4.2 avg, IF	4.42 L-index

#	Paper	IF	Citations
75	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	0
74	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	
73	Influence of seasonality on the aerosol microbiome of the Amazon rainforest. *Science of the Total Environment*, **2021**, 760, 144092	10.2	1
72	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. *Bio-protocol*, **2021**, 11, e4152	0.9	0
71	Magnetic Bead-Based Immunoassay Allows Rapid, Inexpensive, and Quantitative Detection of Human SARS-CoV-2 Antibodies. *ACS Sensors*, **2021**, 6, 703-708	9.2	22
70	Antigen production and development of an indirect ELISA based on the nucleocapsid protein to detect human SARS-CoV-2 seroconversion. *Brazilian Journal of Microbiology*, **2021**, 52, 2069-2073	2.2	0
69	The protein-protein interaction network of the Escherichia coli EIIA regulatory protein reveals a role in cell motility and metabolic control. *Research in Microbiology*, **2021**, 172, 103882	4	0
68	Ultra-fast, high throughput and inexpensive detection of SARS-CoV-2 seroconversion using Ni magnetic beads. *Analytical Biochemistry*, **2021**, 631, 114360	3.1	1
67	Characterization of glutamine synthetase from the ammonium-excreting strain HM053 of Azospirillum brasilense. *Brazilian Journal of Biology*, **2021**, 82, e235927	1.5	0
66	The NADP-dependent malic enzyme MaeB is a central metabolic hub controlled by the acetyl-CoA to CoASH ratio. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2020**, 1868, 140462	4	3
65	NAD biosynthesis in bacteria is controlled by global carbon/nitrogen levels via PII signaling. *Journal of Biological Chemistry*, **2020**, 295, 6165-6176	5.4	5
64	Regulation of Herbaspirillum seropedicae NifA by the GlnK PII signal transduction protein is mediated by effectors binding to allosteric sites. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2020**, 1868, 140348	4	2
63	The Protein-Protein Interaction Network Reveals a Novel Role of the Signal Transduction Protein PII in the Control of c-di-GMP Homeostasis in Azospirillum brasilense. *MSystems*, **2020**, 5,	7.6	3
62	Proteomic and Metabolomic Analysis of Mutant under High and Low Nitrogen Conditions. *Journal of Proteome Research*, **2020**, 19, 92-105	5.6	7
61	Uncovering prokaryotic biodiversity within aerosols of the pristine Amazon forest. *Science of the Total Environment*, **2019**, 688, 83-86	10.2	11
60	The ammonium transporter AmtB and the PII signal transduction protein GlnZ are required to inhibit DraG in Azospirillum brasilense. *FEBS Journal*, **2019**, 286, 1214-1229	5.7	8
59	Fatty acid biosynthesis is enhanced in Escherichia coli strains with deletion in genes encoding the PII signaling proteins. *Archives of Microbiology*, **2019**, 201, 209-214	3	4

58	Proteome analysis of an Escherichia coli ptsN-null strain under different nitrogen regimes. *Journal of Proteomics*, **2018**, 174, 28-35	3.9	9
57	Kinetics and structural features of dimeric glutamine-dependent bacterial NAD synthetases suggest evolutionary adaptation to available metabolites. *Journal of Biological Chemistry*, **2018**, 293, 7397-7407	5.4	4
56	Influence of ancient anthropogenic activities on the mangrove soil microbiome. *Science of the Total Environment*, **2018**, 645, 1-9	10.2	12
55	Dynamics of the Escherichia coli proteome in response to nitrogen starvation and entry into the stationary phase. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2017**, 1865, 344-352	4	13
54	A broad pH range and processive chitinase from a metagenome library. *Brazilian Journal of Medical and Biological Research*, **2017**, 50, e5658	2.8	15
53	Expression and purification of untagged GlnK proteins from actinobacteria. *EXCLI Journal*, **2017**, 16, 949-958	2.4	
52	In vitro characterization of the NAD+ synthetase NadE1 from Herbaspirillum seropedicae. *Archives of Microbiology*, **2016**, 198, 307-13	3	1
51	Conserved histidine residues at the ferroxidase centre of the Campylobacter jejuni Dps protein are not strictly required for metal binding and oxidation. *Microbiology (United Kingdom)*, **2016**, 162, 156-163	2.9	3
50	Interaction of the Nitrogen Regulatory Protein GlnB (P) with Biotin Carboxyl Carrier Protein (BCCP) Controls Acetyl-CoA Levels in the Cyanobacterium sp. PCC 6803. *Frontiers in Microbiology*, **2016**, 7, 1700	5.7	34
49	Proteomic profile of hemolymph and detection of induced antimicrobial peptides in response to microbial challenge in Diatraea saccharalis (Lepidoptera: Crambidae). *Biochemical and Biophysical Research Communications*, **2016**, 473, 511-6	3.4	3
48	Purification of the Campylobacter jejuni Dps protein assisted by its high melting temperature. *Protein Expression and Purification*, **2015**, 111, 105-10	2	2
47	The Emergence of 2-Oxoglutarate as a Master Regulator Metabolite. *Microbiology and Molecular Biology Reviews*, **2015**, 79, 419-35	13.2	143
46	Regulation of nitrogenase by reversible mono-ADP-ribosylation. *Current Topics in Microbiology and Immunology*, **2015**, 384, 89-106	3.3	20
45	How Does the DraGPII Complex Regulate Nitrogenase Activity in Azospirillum brasilense? **2015**, 139-146		1
44	2-Oxoglutarate levels control adenosine nucleotide binding by Herbaspirillum seropedicae PII proteins. *FEBS Journal*, **2015**, 282, 4797-809	5.7	7
43	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. *Molecular Microbiology*, **2015**, 95, 1025-35	4.1	45
42	Mutational analysis of GlnB residues critical for NifA activation in Azospirillum brasilense. *Microbiological Research*, **2015**, 171, 65-72	5.3	3
41	Proteomic analysis of upland rice (Oryza sativa L.) exposed to intermittent water deficit. *Protein Journal*, **2014**, 33, 221-30	3.9	10

40	Matrix-assisted laser desorption ionization-time of flight mass spectrometry analysis of Escherichia coli categories. *Genetics and Molecular Research*, **2014**, 13, 716-22	1.2	8
39	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. *Molecular Microbiology*, **2014**, 91, 751-61	4.1	27
38	Use of nitrogen-fixing bacteria to improve agricultural productivity. *BMC Proceedings*, **2014**, 8,	2.3	13
37	Identification of six differentially accumulated proteins of Zea mays seedlings (DKB240 variety) inoculated with Azospirillum brasilense strain FP2. *European Journal of Soil Biology*, **2013**, 58, 45-50	2.9	13
36	P(II) signal transduction proteins: nitrogen regulation and beyond. *FEMS Microbiology Reviews*, **2013**, 37, 251-83	15.1	134
35	Proteomic analysis of Herbaspirillum seropedicae cultivated in the presence of sugar cane extract. *Journal of Proteome Research*, **2013**, 12, 1142-50	5.6	17
34	Campylobacter jejuni Dps protein binds DNA in the presence of iron or hydrogen peroxide. *Journal of Bacteriology*, **2013**, 195, 1970-8	3.5	23
33	Rapid identification of bacterial isolates from wheat roots by high resolution whole cell MALDI-TOF MS analysis. *Journal of Biotechnology*, **2013**, 165, 167-74	3.7	32
32	Mathematical model of the binding of allosteric effectors to the Escherichia coli PII signal transduction protein GlnB. *Biochemistry*, **2013**, 52, 2683-93	3.2	9
31	The nitrogenase regulatory enzyme dinitrogenase reductase ADP-ribosyltransferase (DraT) is activated by direct interaction with the signal transduction protein GlnB. *Journal of Bacteriology*, **2013**, 195, 279-86	3.5	17
30	Comparative proteomic analysis between early developmental stages of the Coffea arabica fruits. *Genetics and Molecular Research*, **2013**, 12, 5102-10	1.2	3
29	Proteins differentially expressed by Shiga toxin-producing Escherichia coli strain M03 due to the biliar salt sodium deoxycholate. *Genetics and Molecular Research*, **2013**, 12, 4909-17	1.2	3
28	Heat stability of Proteobacterial PII protein facilitate purification using a single chromatography step. *Protein Expression and Purification*, **2012**, 81, 83-88	2	18
27	Interaction of GlnK with the GAF domain of Herbaspirillum seropedicae NifA mediates NH⊞-regulation. *Biochimie*, **2012**, 94, 1041-7	4.6	14
26	Effect of ATP and 2-oxoglutarate on the in vitro interaction between the NifA GAF domain and the GlnB protein of Azospirillum brasilense. *Brazilian Journal of Medical and Biological Research*, **2012**, 45, 1135-40	2.8	6
25	A simple, economical and reproducible protein extraction protocol for proteomics studies of soybean roots. *Genetics and Molecular Biology*, **2012**, 35, 348-52	2	21
24	Nitrogen fixation control in Herbaspirillum seropedicae. *Plant and Soil*, **2012**, 356, 197-207	4.2	33
23	Uridylylation of Herbaspirillum seropedicae GlnB and GlnK proteins is differentially affected by ATP, ADP and 2-oxoglutarate in vitro. *Archives of Microbiology*, **2012**, 194, 643-52	3	9

22	Genomic comparison of the endophyte Herbaspirillum seropedicae SmR1 and the phytopathogen Herbaspirillum rubrisubalbicans M1 by suppressive subtractive hybridization and partial genome sequencing. *FEMS Microbiology Ecology*, **2012**, 80, 441-51	4.3	31
21	Draft genome sequence of Herbaspirillum lusitanum P6-12, an endophyte isolated from root nodules of Phaseolus vulgaris. *Journal of Bacteriology*, **2012**, 194, 4136-7	3.5	18
20	Influence of the ADP/ATP ratio, 2-oxoglutarate and divalent ions on Azospirillum brasilense PII protein signalling. *Microbiology (United Kingdom)*, **2012**, 158, 1656-1663	2.9	17
19	PII signal transduction proteins: pivotal players in post-translational control of nitrogenase activity. *Microbiology (United Kingdom)*, **2012**, 158, 176-190	2.9	57
18	In vitro interaction between the ammonium transport protein AmtB and partially uridylylated forms of the P(II) protein GlnZ. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2011**, 1814, 1203-9	4	12
17	Crystal structure of the GlnZ-DraG complex reveals a different form of PII-target interaction. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 18972-6	11.5	31
16	Proteomic analysis of Herbaspirillum seropedicae reveals ammonium-induced AmtB-dependent membrane sequestration of PII proteins. *FEMS Microbiology Letters*, **2010**, 308, 40-7	2.9	18
15	A new P(II) protein structure identifies the 2-oxoglutarate binding site. *Journal of Molecular Biology*, **2010**, 400, 531-9	6.5	62
14	First partial proteome of the poultry pathogen Mycoplasma synoviae. *Veterinary Microbiology*, **2010** , 145, 134-41	3.3	9
13	In vitro interactions between the PII proteins and the nitrogenase regulatory enzymes dinitrogenase reductase ADP-ribosyltransferase (DraT) and dinitrogenase reductase-activating glycohydrolase (DraG) in Azospirillum brasilense. *Journal of Biological Chemistry*, **2009**, 284, 6674-82	5.4	28
12	Azospirillum brasilense PII proteins GlnB and GlnZ do not form heterotrimers and GlnB shows a unique trimeric uridylylation pattern. *European Journal of Soil Biology*, **2009**, 45, 94-99	2.9	4
11	Role of conserved cysteine residues in Herbaspirillum seropedicae NifA activity. *Research in Microbiology*, **2009**, 160, 389-95	4	9
10	Crystal structure of dinitrogenase reductase-activating glycohydrolase (DraG) reveals conservation in the ADP-ribosylhydrolase fold and specific features in the ADP-ribose-binding pocket. *Journal of Molecular Biology*, **2009**, 390, 737-46	6.5	17
9	Comparative proteome analysis of Xanthomonas campestris pv. campestris in the interaction with the susceptible and the resistant cultivars of Brassica oleracea. *FEMS Microbiology Letters*, **2009**, 298, 260-6	2.9	28
8	Ternary complex formation between AmtB, GlnZ and the nitrogenase regulatory enzyme DraG reveals a novel facet of nitrogen regulation in bacteria. *Molecular Microbiology*, **2007**, 66, 1523-35	4.1	47
7	Interactions between PII proteins and the nitrogenase regulatory enzymes DraT and DraG in Azospirillum brasilense. *FEBS Letters*, **2006**, 580, 5232-6	3.8	39
6	ADP-ribosylation of dinitrogenase reductase in Azospirillum brasilense is regulated by AmtB-dependent membrane sequestration of DraG. *Molecular Microbiology*, **2006**, 59, 326-37	4.1	56
5	Effect of the over-expression of PII and PZ proteins on the nitrogenase activity of Azospirillum brasilense. *FEMS Microbiology Letters*, **2005**, 253, 47-54	2.9	12

4	Effects of over-expression of the regulatory enzymes DraT and DraG on the ammonium-dependent post-translational regulation of nitrogenase reductase in Azospirillum brasilense. *Archives of Microbiology*, **2005**, 183, 209-17	3	10
3	Repressor mutant forms of the Azospirillum brasilense NtrC protein. *Applied and Environmental Microbiology*, **2004**, 70, 6320-3	4.8	1
2	Regulation of glnB gene promoter expression in Azospirillum brasilense by the NtrC protein. *FEMS Microbiology Letters*, **2003**, 223, 33-40	2.9	16
1	Magnetic bead-based ELISA allow inexpensive, rapid and quantitative detection of human antibodies against SARS-CoV-2		2