## Leda S Chubatsu

## List of Publications by Citations

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84 2,169 26 44 g-index

84 2,379 3.7 4.1 L-index

#	Paper	IF	Citations
84	Metallothionein protects DNA from oxidative damage. <i>Biochemical Journal</i> , <b>1993</b> , 291 ( Pt 1), 193-8	3.8	229
83	Genome of Herbaspirillum seropedicae strain SmR1, a specialized diazotrophic endophyte of tropical grasses. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002064	6	151
82	Implication of mammalian ribosomal protein S3 in the processing of DNA damage. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 13620-9	5.4	141
81	Endophytic Herbaspirillum seropedicae expresses nif genes in gramineous plants. <i>FEMS Microbiology Ecology</i> , <b>2003</b> , 45, 39-47	4.3	114
80	Herbaspirillum-plant interactions: microscopical, histological and molecular aspects. <i>Plant and Soil</i> , <b>2012</b> , 356, 175-196	4.2	111
79	Dual RNA-seq transcriptional analysis of wheat roots colonized by Azospirillum brasilense reveals up-regulation of nutrient acquisition and cell cycle genes. <i>BMC Genomics</i> , <b>2014</b> , 15, 378	4.5	96
78	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
77	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
76	ADP-ribosylation of dinitrogenase reductase in Azospirillum brasilense is regulated by AmtB-dependent membrane sequestration of DraG. <i>Molecular Microbiology</i> , <b>2006</b> , 59, 326-37	4.1	56
75	V79 Chinese-hamster cells rendered resistant to high cadmium concentration also become resistant to oxidative stress. <i>Biochemical Journal</i> , <b>1988</b> , 256, 475-9	3.8	56
74	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
73	Genome structure of the genus Azospirillum. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 4113-6	3.5	46
72	RNA-seq transcriptional profiling of Herbaspirillum seropedicae colonizing wheat (Triticum aestivum) roots. <i>Plant Molecular Biology</i> , <b>2016</b> , 90, 589-603	4.6	44
71	Isolation of a novel lipase from a metagenomic library derived from mangrove sediment from the south Brazilian coast. <i>Genetics and Molecular Research</i> , <b>2010</b> , 9, 514-23	1.2	44
70	Role of antioxidants in protecting cellular DNA from damage by oxidative stress. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>1991</b> , 250, 95-101	3.3	41
69	Interactions between PII proteins and the nitrogenase regulatory enzymes DraT and DraG in Azospirillum brasilense. <i>FEBS Letters</i> , <b>2006</b> , 580, 5232-6	3.8	39
68	Expression and functional analysis of an N-truncated NifA protein of Herbaspirillum seropedicae. <i>FEBS Letters</i> , <b>1999</b> , 447, 283-6	3.8	34

## (2004-2013)

67	Maize root lectins mediate the interaction with Herbaspirillum seropedicae via N-acetyl glucosamine residues of lipopolysaccharides. <i>PLoS ONE</i> , <b>2013</b> , 8, e77001	3.7	34
66	Nitrogen fixation control in Herbaspirillum seropedicae. <i>Plant and Soil</i> , <b>2012</b> , 356, 197-207	4.2	33
65	Glutathione is the antioxidant responsible for resistance to oxidative stress in V79 Chinese hamster fibroblasts rendered resistant to cadmium. <i>Chemico-Biological Interactions</i> , <b>1992</b> , 82, 99-110	5	32
64	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
63	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
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 Azospirillum brasilense. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 6674-82	5.4	28
61	Recent developments in the structural organization and regulation of nitrogen fixation genes in Herbaspirillum seropedicae. <i>Journal of Biotechnology</i> , <b>2001</b> , 91, 189-95	3.7	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	GlnB is specifically required for Azospirillum brasilense NifA activity in Escherichia coli. <i>Research in Microbiology</i> , <b>2004</b> , 155, 491-5	4	27
58	Identification of proteins associated with polyhydroxybutyrate granules from Herbaspirillum seropedicae SmR1old partners, new players. <i>PLoS ONE</i> , <b>2013</b> , 8, e75066	3.7	25
57	Different responses of the GlnB and GlnZ proteins upon in vitro uridylylation by the Azospirillum brasilense GlnD protein. <i>Brazilian Journal of Medical and Biological Research</i> , <b>2008</b> , 41, 289-94	2.8	23
56	In-trans regulation of the N-truncated-NIFA protein of Herbaspirillum seropedicae by the N-terminal domain. <i>FEMS Microbiology Letters</i> , <b>1999</b> , 180, 157-61	2.9	19
55	Proteomic analysis of Herbaspirillum seropedicae reveals ammonium-induced AmtB-dependent membrane sequestration of PII proteins. <i>FEMS Microbiology Letters</i> , <b>2010</b> , 308, 40-7	2.9	18
54	Draft genome sequence of Herbaspirillum lusitanum P6-12, an endophyte isolated from root nodules of Phaseolus vulgaris. <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 4136-7	3.5	18
53	Influence of the ADP/ATP ratio, 2-oxoglutarate and divalent ions on Azospirillum brasilense PII protein signalling. <i>Microbiology (United Kingdom)</i> , <b>2012</b> , 158, 1656-1663	2.9	17
52	Role of PII proteins in nitrogen fixation control of Herbaspirillum seropedicae strain SmR1. <i>BMC Microbiology</i> , <b>2011</b> , 11, 8	4.5	16
51	Regulation of glnB gene promoter expression in Azospirillum brasilense by the NtrC protein. <i>FEMS Microbiology Letters</i> , <b>2003</b> , 223, 33-40	2.9	16
50	In vitro uridylylation of the Azospirillum brasilense N-signal transducing GlnZ protein. <i>Protein Expression and Purification</i> , <b>2004</b> , 33, 19-24	2	16

49	Importance of Poly-3-Hydroxybutyrate Metabolism to the Ability of Herbaspirillum seropedicae To Promote Plant Growth. <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	15
48	A simple and efficient method for poly-3-hydroxybutyrate quantification in diazotrophic bacteria within 5 minutes using flow cytometry. <i>Brazilian Journal of Medical and Biological Research</i> , <b>2017</b> , 50, e5492	2.8	14
47	Interaction of GlnK with the GAF domain of Herbaspirillum seropedicae NifA mediates NH⊞-regulation. <i>Biochimie</i> , <b>2012</b> , 94, 1041-7	4.6	14
46	Identification and characterization of PhbF: a DNA binding protein with regulatory role in the PHB metabolism of Herbaspirillum seropedicae SmR1. <i>BMC Microbiology</i> , <b>2011</b> , 11, 230	4.5	14
45	Characterization of the orf1glnKamtB operon of Herbaspirillum seropedicae. <i>Archives of Microbiology</i> , <b>2006</b> , 185, 55-62	3	14
44	Control of autogenous activation of Herbaspirillum seropedicae nifA promoter by the IHF protein. <i>FEMS Microbiology Letters</i> , <b>2002</b> , 212, 177-82	2.9	14
43	Use of lactose to induce expression of soluble NifA protein domains of Herbaspirillum seropedicae in Escherichia coli. <i>Canadian Journal of Microbiology</i> , <b>2000</b> , 46, 1087-90	3.2	14
42	Backup Expression of the PhaP2 Phasin Compensates for phaP1 Deletion in Herbaspirillum seropedicae, Maintaining Fitness and PHB Accumulation. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 739	5.7	14
41	The transcriptional regulator NtrC controls glucose-6-phosphate dehydrogenase expression and polyhydroxybutyrate synthesis through NADPH availability in Herbaspirillum seropedicae. <i>Scientific Reports</i> , <b>2017</b> , 7, 13546	4.9	12
40	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, 120	3 <del>-4</del>	12
39	Effect of the over-expression of PII and PZ proteins on the nitrogenase activity of Azospirillum brasilense. <i>FEMS Microbiology Letters</i> , <b>2005</b> , 253, 47-54	2.9	12
38	The NtrY-NtrX two-component system is involved in controlling nitrate assimilation in Herbaspirillum seropedicae strain SmR1. <i>FEBS Journal</i> , <b>2016</b> , 283, 3919-3930	5.7	11
37	Effects of over-expression of the regulatory enzymes DraT and DraG on the ammonium-dependent post-translational regulation of nitrogenase reductase in Azospirillum brasilense. <i>Archives of Microbiology</i> , <b>2005</b> , 183, 209-17	3	10
36	RNA-seq analyses reveal insights into the function of respiratory nitrate reductase of the diazotroph Herbaspirillum seropedicae. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 2677-88	5.2	10
35	Uridylylation of Herbaspirillum seropedicae 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	Role of conserved cysteine residues in Herbaspirillum seropedicae NifA activity. <i>Research in Microbiology</i> , <b>2009</b> , 160, 389-95	4	9
33	Identification of NH4+-regulated genes of Herbaspirillum seropedicae by random insertional mutagenesis. <i>Archives of Microbiology</i> , <b>2007</b> , 187, 379-86	3	9
32	Expression, purification, and DNA-binding activity of the Herbaspirillum seropedicae RecX protein. <i>Protein Expression and Purification</i> , <b>2004</b> , 35, 298-303	2	9

## (2009-2017)

A NodD-like protein activates transcription of genes involved with naringenin degradation in a 31 flavonoid-dependent manner in Herbaspirillum seropedicae. *Environmental Microbiology*, **2017**, 19,  $1030^{5}1040^{-8}$ The involvement of the nif-associated ferredoxin-like genes fdxA and fdxN of Herbaspirillum 30 seropedicae in nitrogen fixation. Journal of Microbiology, 2010, 48, 77-83 The glnAntrBC operon of Herbaspirillum seropedicae is transcribed by two oppositely regulated 8 29 3.2 promoters upstream of glnA. Canadian Journal of Microbiology, 2007, 53, 100-5 Inter-domain cross-talk controls the NifA protein activity of Herbaspirillum seropedicae. FEBS 28 3.8 8 Letters, 2001, 508, 1-4 Comparative molecular analysis of Herbaspirillum strains by RAPD, RFLP, and 16S rDNA 8 2 27 sequencing. Genetics and Molecular Biology, 2003, 26, 537-543 2-Oxoglutarate levels control adenosine nucleotide binding by Herbaspirillum seropedicae PII 26 5.7 proteins. FEBS Journal, 2015, 282, 4797-809 Structural characterization of the RNA chaperone Hfq from the nitrogen-fixing bacterium Herbaspirillum seropedicae SmR1. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 25 7 4 1824, 359-65 The RecX protein interacts with the RecA protein and modulates its activity in Herbaspirillum 2.8 24 seropedicae. Brazilian Journal of Medical and Biological Research, 2012, 45, 1127-34 The expression of nifB gene from Herbaspirillum seropedicae is dependent upon the NifA and 7 23 3.2 RpoN proteins. Canadian Journal of Microbiology, 2006, 52, 1199-207 Expression, purification, and functional analysis of the C-terminal domain of Herbaspirillum seropedicae NifA protein. Protein Expression and Purification, 2003, 27, 313-8 The recX gene product is involved in the SOS response in Herbaspirillum seropedicae. Canadian 21 3.2 7 Journal of Microbiology, **2003**, 49, 145-50 Fnr is involved in oxygen control of Herbaspirillum seropedicae N-truncated NifA protein activity in 20 4.8 Escherichia coli. Applied and Environmental Microbiology, 2003, 69, 1527-31 Characteristics of an Aeromonas trota strain isolated from cerebrospinal fluid. Microbial 3.8 6 19 Pathogenesis, 2018, 116, 109-112 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, 18 2.8 6 45, 1135-40 NAD biosynthesis in bacteria is controlled by global carbon/nitrogen levels via PII signaling. Journal 17 5.4 5 of Biological Chemistry, 2020, 295, 6165-6176 Structural organization of the glnBA region of the Azospirillum brasilense genome. European 16 2.9 Journal of Soil Biology, 2009, 45, 100-105 Draft Genome Sequence of Herbaspirillum huttiense subsp. putei IAM 15032, a Strain Isolated from 15 4 Well Water. Genome Announcements, 2013, 1, Azospirillum brasilense PII proteins GlnB and GlnZ do not form heterotrimers and GlnB shows a 14 unique trimeric uridylylation pattern. European Journal of Soil Biology, 2009, 45, 94-99

13	Molecular characterisation of Salmonella strains isolated from outbreaks and sporadic cases of diarrhoea occurred in Parantate, South of Brazil. <i>Epidemiology and Infection</i> , <b>2017</b> , 145, 1953-1960	4.3	3
12	Effect of point mutations on Herbaspirillum seropedicae NifA activity. <i>Brazilian Journal of Medical and Biological Research</i> , <b>2015</b> , 48, 683-90	2.8	3
11	Expression, purification, and DNA-binding activity of the solubilized NtrC protein of Herbaspirillum seropedicae. <i>Protein Expression and Purification</i> , <b>2003</b> , 30, 117-23	2	3
10	Use of lactose to induce expression of soluble NifA protein domains of Herbaspirillum seropedicae in Escherichia coli. <i>Canadian Journal of Microbiology</i> , <b>2000</b> , 46, 1087-1090	3.2	3
9	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. <i>MSystems</i> , <b>2020</b> , 5,	7.6	3
8	Genome Analysis of Entomopathogenic Bacillus sp. ABP14 Isolated from a Lignocellulosic Compost. <i>Genome Biology and Evolution</i> , <b>2019</b> , 11, 1658-1662	3.9	2
7	Polyhydroxybutyrate in Azospirillum brasilense <b>2015</b> , 241-250		2
6	Expression and characterization of an N-truncated form of the NifA protein of Azospirillum brasilense. <i>Brazilian Journal of Medical and Biological Research</i> , <b>2012</b> , 45, 113-7	2.8	2
6 5		2.8	2
	brasilense. Brazilian Journal of Medical and Biological Research, 2012, 45, 113-7  Isolation of recombinant plasmids for rapid analysis using a sodium dodecyl sulfate/potassium		
5	brasilense. <i>Brazilian Journal of Medical and Biological Research</i> , <b>2012</b> , 45, 113-7  Isolation of recombinant plasmids for rapid analysis using a sodium dodecyl sulfate/potassium chloride precipitation. <i>Analytical Biochemistry</i> , <b>2001</b> , 292, 169-70  Complete Genome Sequence of Herbaspirillum hiltneri N3 (DSM 17495), Isolated from		2