Rosario Duran

List of Publications by Year
in descending order

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65 papers	2,953 citations	218677 26 h-index	168389 53 g-index
68 all docs	68 docs citations	68 times ranked	3888 citing authors

#	Article	IF	Citations
1	Reversible Post-translational Modification of Proteins by Nitrated Fatty Acids in Vivo. Journal of Biological Chemistry, 2006, 281, 20450-20463.	3.4	248
2	PknB kinase activity is regulated by phosphorylation in two Thr residues and dephosphorylation by PstP, the cognate phosphoâ€Ser/Thr phosphatase, in Mycobacterium tuberculosis. Molecular Microbiology, 2003, 49, 1493-1508.	2.5	166
3	Site-Specific Interactions of Cu(II) with Î± and Î²-Synuclein: Bridging the Molecular Gap between Metal Binding and Aggregation. Journal of the American Chemical Society, 2008, 130, 11801-11812.	13.7	160
4	Mycobacterial Ser/Thr protein kinases and phosphatases: Physiological roles and therapeutic potential. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 193-202.	2.3	153
5	Regulation of glutamate metabolism by protein kinases in mycobacteria. Molecular Microbiology, 2008, 70, 1408-1423.	2.5	147
6	Reactivity of Sulfenic Acid in Human Serum Albumin. Biochemistry, 2008, 47, 358-367.	2.5	144
7	Proteomic Identification of M.tuberculosis Protein Kinase Substrates: PknB Recruits GarA, a FHA Domain-containing Protein, Through Activation Loop-mediated Interactions. Journal of Molecular Biology, 2005, 350, 953-963.	4.2	142
8	Inactivation of human Cu,Zn superoxide dismutase by peroxynitrite and formation of histidinyl radical. Free Radical Biology and Medicine, 2004, 37, 813-822.	2.9	124
9	Bioinorganic Chemistry of Parkinsonâ€™s Disease: Structural Determinants for the Copper-Mediated Amyloid Formation of Alpha-Synuclein. Inorganic Chemistry, 2010, 49, 10668-10679.	4.0	119
10	Time Course and Site(s) of Cytochrome c Tyrosine Nitration by Peroxynitrite. Biochemistry, 2005, 44, 8038-8046.	2.5	108
11	Proteomic analysis of metacyclic trypomastigotes undergoing Trypanosoma cruzi metacyclogenesis. Journal of Mass Spectrometry, 2007, 42, 1422-1432.	1.6	90
12	A distinctive repertoire of cathepsins is expressed by juvenile invasive Fasciola hepatica. Biochimie, 2008, 90, 1461-1475.	2.6	90
13	Conserved autophosphorylation pattern in activation loops and juxtamembrane regions of Mycobacterium tuberculosis Ser/Thr protein kinases. Biochemical and Biophysical Research Communications, 2005, 333, 858-867.	2.1	83
14	Exploring the Structural Details of Cu(I) Binding to Î±-Synuclein by NMR Spectroscopy. Journal of the American Chemical Society, 2011, 133, 194-196.	13.7	83
15	S100-A9 protein in exosomes from chronic lymphocytic leukemia cells promotes NF-ÎºB activity during disease progression. Blood, 2017, 130, 777-788.	1.4	79
16	Serine/threonine protein kinase PrkA of the human pathogen Listeria monocytogenes: Biochemical characterization and identification of interacting partners through proteomic approaches. Journal of Proteomics, 2011, 74, 1720-1734.	2.4	70
17	Proteome analysis of the causative agent of Chagas disease: Trypanosoma cruzi. International Journal for Parasitology, 2004, 34, 881-886.	3.1	61
18	Structural and Molecular Basis of the Peroxynitrite-mediated Nitration and Inactivation of Trypanosoma cruzi Iron-Superoxide Dismutases (Fe-SODs) A and B. Journal of Biological Chemistry, 2014, 289, 12760-12778.	3.4	51

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19	Muscarinic toxins: novel pharmacological tools for the muscarinic cholinergic system. Toxicon, 2000, 38, 747-761.	1.6	50
20	Molecular Basis of the Activity and the Regulation of the Eukaryotic-like S/T Protein Kinase PknG from Mycobacterium tuberculosis. Structure, 2015, 23, 1039-1048.	3.3	37
21	Effects of muscarinic toxins MT1 and MT2 from green mamba on different muscarinic cholinoceptors. Neurochemical Research, 2002, 27, 1543-1554.	3.3	36
22	A Family of Diverse Kunitz Inhibitors from Echinococcus granulosus Potentially Involved in Host-Parasite Cross-Talk. PLoS ONE, 2009, 4, e7009.	2.5	33
23	Crosstalk between the serine/threonine kinase StkP and the response regulator ComE controls the stress response and intracellular survival of Streptococcus pneumoniae. PLoS Pathogens, 2018, 14, e1007118.	4.7	33
24	New potential eukaryotic substrates of the mycobacterial protein tyrosine phosphatase PtpA: hints of a bacterial modulation of macrophage bioenergetics state. Scientific Reports, 2015, 5, 8819.	3.3	31
25	Inhibition of Mycobacterium tuberculosis PknG by non-catalytic rubredoxin domain specific modification: reaction of an electrophilic nitro-fatty acid with the Feâ€“S center. Free Radical Biology and Medicine, 2013, 65, 150-161.	2.9	30
26	New substrates and interactors of the mycobacterial Serine/Threonine protein kinase PknG identified by a tailored interactomic approach. Journal of Proteomics, 2019, 192, 321-333.	2.4	30
27	Essential dynamic interdependence of FtsZ and SepF for Z-ring and septum formation in Corynebacterium glutamicum. Nature Communications, 2020, 11, 1641.	12.8	29
28	Functional diversity of secreted cestode Kunitz proteins: Inhibition of serine peptidases and blockade of cation channels. PLoS Pathogens, 2017, 13, e1006169.	4.7	28
29	Inactivation of cystathionine Î²-synthase with peroxynitrite. Archives of Biochemistry and Biophysics, 2009, 491, 96-105.	3.0	27
30	Fasciculin inhibition of acetylcholinesterase is prevented by chemical modification of the enzyme at a peripheral site. Biochimica Et Biophysica Acta - General Subjects, 1994, 1201, 381-388.	2.4	26
31	Proteomic survey of the cestode Mesocestoides corti during the first 24 hours of strobilar development. Parasitology Research, 2011, 108, 645-656.	1.6	26
32	Simple, efficient and thorough shotgun proteomic analysis with PatternLab V. Nature Protocols, 2022, 17, 1553-1578.	12.0	26
33	Amino acid sequence and three-dimensional structure of the Tn-specific isolectin B4 fromVicia villosa. FEBS Letters, 1997, 412, 190-196.	2.8	25
34	Quantitative proteomic dataset from oro- and naso-pharyngeal swabs used for COVID-19 diagnosis: Detection of viral proteins and host's biological processes altered by the infection. Data in Brief, 2020, 32, 106121.	1.0	25
35	Identification, cloning and characterization of an aldo-keto reductase from Trypanosoma cruzi with quinone oxido-reductase activity. Molecular and Biochemical Parasitology, 2010, 173, 132-141.	1.1	24
36	Identification of an Iron-Regulated, Hemin-Binding Outer Membrane Protein in Sinorhizobium meliloti. Applied and Environmental Microbiology, 2002, 68, 5877-5881.	3.1	23

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37	Characterization of prophages containing â€œevolvedâ€•Dit/Tal modules in the genome of Lactobacillus casei BL23. Applied Microbiology and Biotechnology, 2016, 100, 9201-9215.	3.6	22
38	Analysis of theTrypanosoma cruzicyclophilin gene family and identification of Cyclosporin A binding proteins. Parasitology, 2006, 132, 867-882.	1.5	21
39	Functional and Mass Spectrometric Evaluation of an Anti-Tick Antigen Based on the P0 Peptide Conjugated to Bm86 Protein. Pathogens, 2020, 9, 513.	2.8	21
40	The EAL-domain protein FcsR regulates flagella, chemotaxis and type III secretion system in Pseudomonas aeruginosa by a phosphodiesterase independent mechanism. Scientific Reports, 2017, 7, 10281.	3.3	19
41	Structural characterization and biological implications of sulfatedN-glycans in a serine protease from the neotropical mothHylesia metabus(Cramer [1775]) (Lepidoptera: Saturniidae). Glycobiology, 2015, 26, cwv096.	2.5	18
42	Phagocyte-specific S100 proteins in the local response to theEchinococcus granulosuslarva. Parasitology, 2012, 139, 271-283.	1.5	16
43	Novel mechanistic insights into physiological signaling pathways mediated by mycobacterial Ser/Thr protein kinases. Genes and Immunity, 2019, 20, 383-393.	4.1	16
44	Nitro-fatty acids as activators of hSIRT6 deacetylase activity. Journal of Biological Chemistry, 2020, 295, 18355-18366.	3.4	15
45	Effect of fasciculin on hydrolysis of neutral and choline esters by butyrylcholinesterase, cobra venom and chicken acetylcholinesterases. Toxicon, 1996, 34, 959-963.	1.6	14
46	Trypanosoma cruzi chemical proteomics using immobilized benznidazole. Experimental Parasitology, 2014, 140, 33-38.	1.2	14
47	MALDIâ€TOF MS analysis of labile Lolium perenne major allergens in mixes. Clinical and Experimental Allergy, 2008, 38, 1391-1399.	2.9	13
48	Identification of the Chicken MARCKS Phosphorylation Site Specific for Differentiating Neurons as Ser 25 Using a Monoclonal Antibody and Mass Spectrometry. Journal of Proteome Research, 2004, 3, 84-90.	3.7	12
49	The crystal structure of the catalytic domain of the ser/thr kinase PknA from M. tuberculosis shows an Src-like autoinhibited conformation. Proteins: Structure, Function and Bioinformatics, 2015, 83, 982-988.	2.6	11
50	Combining proteomics and bioinformatics to explore novel tegumental antigens as vaccine candidates against Echinococcus granulosus infection. Journal of Cellular Biochemistry, 2019, 120, 15320-15336.	2.6	11
51	Protein content of the Hylesia metabus egg nest setae (Cramer [1775]) (Lepidoptera: Saturniidae) and its association with the parental investment for the reproductive success and lepidopterism. Journal of Proteomics, 2017, 150, 183-200.	2.4	9
52	Evaluation of Cocktails with Recombinant Proteins ofMycobacterium bovisfor a Specific Diagnosis of Bovine Tuberculosis. BioMed Research International, 2014, 2014, 1-12.	1.9	7
53	DiagnoProt: a tool for discovery of new molecules by mass spectrometry. Bioinformatics, 2017, 33, 1883-1885.	4.1	7
54	Novel mechanistic insights into physiological signaling pathways mediated by mycobacterial Ser/Thr protein kinases. Microbes and Infection, 2019, 21, 222-229.	1.9	6

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55	A novel form of Deleted in breast cancer 1 (DBC1) lacking the N-terminal domain does not bind SIRT1 and is dynamically regulated in vivo. Scientific Reports, 2019, 9, 14381.	3.3	6
56	Proteome remodeling in the Mycobacterium tuberculosis PknG knockout: Molecular evidence for the role of this kinase in cell envelope biogenesis and hypoxia response. Journal of Proteomics, 2021, 244, 104276.	2.4	6
57	A constant area monolayer method to assess optimal lipid packing for lipolysis tested with several secreted phospholipase A2. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2216-2224.	2.6	5
58	Fasciculin: Modification of carboxyl groups and discussion of structure-activity relationship. Toxicon, 1996, 34, 718-721.	1.6	4
59	Rv2577 of Mycobacterium tuberculosis Is a Virulence Factor With Dual Phosphatase and Phosphodiesterase Functions. Frontiers in Microbiology, 2020, 11, 570794.	3.5	4
60	Nitroalkylation of Î±-Synuclein by Nitro-Oleic Acid: Implications for Parkinsonâ€™s Disease. Advances in Experimental Medicine and Biology, 2019, 1127, 169-179.	1.6	3
61	Synthesis, LC-MS/MS analysis, and biological evaluation of two vaccine candidates against ticks based on the antigenic P0 peptide from R. sanguineus linked to the p64K carrier protein from Neisseria meningitidis. Analytical and Bioanalytical Chemistry, 2021, 413, 5885-5900.	3.7	3
62	Specificity and Reactivity of Mycobacterium tuberculosis Serine/Threonine Kinases PknG and PknB. Journal of Chemical Information and Modeling, 2022, 62, 1723-1733.	5.4	3
63	A Phenotypic Characterization of Two Isolates of a Multidrug-Resistant Outbreak Strain of Mycobacterium tuberculosis with Opposite Epidemiological Fitness. BioMed Research International, 2020, 2020, 1-9.	1.9	2
64	A Tetratricopeptide Repeat Scaffold Couples Signal Detection to OdhI Phosphorylation in Metabolic Control by the Protein Kinase PknG. MBio, 2021, 12, e0171721.	4.1	2
65	Genomic and proteomic analysis of Tausonia pullulans reveals a key role for a GH15 glucoamylase in starch hydrolysis. Applied Microbiology and Biotechnology, 2022, 106, 4655-4667.	3.6	2