Ernesto S Nakayasu

List of Publications by Year
in descending order

128 papers	7,132 citations	66343 42 h-index	66911 78 g-index
147 all docs	147 docs citations	147 times ranked	9119 citing authors

#	Article	IF	Citations
1	Legionella pneumophila modulates host energy metabolism by ADP-ribosylation of ADP/ATP translocases. ELife, 2022, 11, .	6.0	27
2	GDF15: a potential therapeutic target for type 1 diabetes. Expert Opinion on Therapeutic Targets, 2022, 26, 57-67.	3.4	12
3	DEIMoS: An Open-Source Tool for Processing High-Dimensional Mass Spectrometry Data. Analytical Chemistry, 2022, 94, 6130-6138.	6.5	14
4	Integration of Infant Metabolite, Genetic, and Islet Autoimmunity Signatures to Predict Type 1 Diabetes by Age 6 Years. Journal of Clinical Endocrinology and Metabolism, 2022, 107, 2329-2338.	3.6	10
5	Regulation of Translation by Lysine Acetylation in Escherichia coli. MBio, 2022, 13, .	4.1	10
6	Uncovering Hidden Members and Functions of the Soil Microbiome Using De Novo Metaproteomics. Journal of Proteome Research, 2022, 21, 2023-2035.	3.7	6
7	Identification of Exported Plasmodium falciparum Proteins That Bind to the Erythrocyte Cytoskeleton. Microorganisms, 2022, 10, 1438.	3.6	1
8	Prediction of the development of islet autoantibodies through integration of environmental, genetic, and metabolic markers. Journal of Diabetes, 2021, 13, 143-153.	1.8	25
9	Transcriptional and translational landscape of Candida auris in response to caspofungin. Computational and Structural Biotechnology Journal, 2021, 19, 5264-5277.	4.1	14
10	Parallel Multi-Omics in High-Risk Subjects for the Identification of Integrated Biomarker Signatures of Type 1 Diabetes. Biomolecules, 2021, 11, 383.	4.0	17
11	Cryptococcus neoformans-Infected Macrophages Release Proinflammatory Extracellular Vesicles: Insight into Their Components by Multi-omics. MBio, 2021, 12, .	4.1	14
12	Omics Approaches for Understanding Biogenesis, Composition and Functions of Fungal Extracellular Vesicles. Frontiers in Genetics, 2021, 12, 648524.	2.3	13
13	Tutorial: best practices and considerations for mass-spectrometry-based protein biomarker discovery and validation. Nature Protocols, 2021, 16, 3737-3760.	12.0	110
14	Comparative Molecular and Immunoregulatory Analysis of Extracellular Vesicles from Candida albicans and Candida auris. MSystems, 2021, 6, e0082221.	3.8	27
15	Integrated Metabolomics and Proteomics Analyses in the Local Milieu of Islet Allografts in Rejection versus Tolerance. International Journal of Molecular Sciences, 2021, 22, 8754.	4.1	2
16	The Legionella Effector SdjA Is a Bifunctional Enzyme That Distinctly Regulates Phosphoribosyl Ubiquitination. MBio, 2021, 12, e0231621.	4.1	25
17	Bayesian Inference for Integrating Yarrowia lipolytica Multiomics Datasets with Metabolic Modeling. ACS Synthetic Biology, 2021, 10, 2968-2981.	3.8	4
18	A Histoplasma capsulatum Lipid Metabolic Map Identifies Antifungal Targets. MBio, 2021, 12, e0297221.	4.1	6

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19	Lessons Learned from Studying Histoplasma capsulatum Extracellular Vesicles. Current Topics in Microbiology and Immunology, 2021, 432, 13-18.	1.1	2
20	Comprehensive Proteomics Analysis of Stressed Human Islets Identifies GDF15 as a Target for Type 1 Diabetes Intervention. Cell Metabolism, 2020, 31, 363-374.e6.	16.2	78
21	Fic Proteins Inhibit the Activity of Topoisomerase IV by AMPylation in Diverse Bacteria. Frontiers in Microbiology, 2020, 11, 2084.	3.5	7
22	Cryptococcus neoformans Secretes Small Molecules That Inhibit IL-1Î² Inflammasome-Dependent Secretion. Mediators of Inflammation, 2020, 2020, 1-20.	3.0	12
23	Legionella pneumophila regulates the activity of <scp>UBE</scp> 2N by deamidaseâ€mediated deubiquitination. EMBO Journal, 2020, 39, e102806.	7.8	38
24	Media matters! Alterations in the loading and release of <scp> Histoplasma capsulatum </scp> extracellular vesicles in response to different nutritional milieus. Cellular Microbiology, 2020, 22, e13217.	2.1	49
25	Remodeling of the Histoplasma Capsulatum Membrane Induced by Monoclonal Antibodies. Vaccines, 2020, 8, 269.	4.4	11
26	Metabolite, Protein, and Lipid Extraction (MPLEx): A Method that Simultaneously Inactivates Middle East Respiratory Syndrome Coronavirus and Allows Analysis of Multiple Host Cell Components Following Infection. Methods in Molecular Biology, 2020, 2099, 173-194.	0.9	15
27	Longitudinal proteomics analysis in the immediate microenvironment of islet allografts during progression of rejection. Journal of Proteomics, 2020, 223, 103826.	2.4	9
28	An integrated multi-omics approach identifies the landscape of interferon-Î±-mediated responses of human pancreatic beta cells. Nature Communications, 2020, 11, 2584.	12.8	87
29	Probing islet stress in type 1 diabetes. Aging, 2020, 12, 18795-18796.	3.1	0
30	Probing islet stress in type 1 diabetes. Aging, 2020, 12, 18795-18796.	3.1	0
31	Regulation of phosphoribosyl ubiquitination by a calmodulin-dependent glutamylase. Nature, 2019, 572, 387-391.	27.8	91
32	Extending Classification Algorithms to Case-Control Studies. Biomedical Engineering and Computational Biology, 2019, 10, 117959721985895.	2.0	12
33	The impact of proinflammatory cytokines on the Î²-cell regulatory landscape provides insights into the genetics of type 1 diabetes. Nature Genetics, 2019, 51, 1588-1595.	21.4	117
34	The Plasmodium falciparum MESA erythrocyte cytoskeleton-binding (MEC) motif binds to erythrocyte ankyrin. Molecular and Biochemical Parasitology, 2019, 231, 111189.	1.1	5
35	The role of proteomics in assessing beta-cell dysfunction and death in type 1 diabetes. Expert Review of Proteomics, 2019, 16, 569-582.	3.0	8
36	Multi-omics Signature of Candida auris , an Emerging and Multidrug-Resistant Pathogen. MSystems, 2019, 4, .	3.8	65

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37	Bacterial Longevity Requires Protein Synthesis and a Stringent Response. MBio, 2019, 10, .	4.1	17
38	Legionella pneumophila inhibits immune signalling via MavC-mediated transglutaminase-induced ubiquitination of UBE2N. Nature Microbiology, 2019, 4, 134-143.	13.3	44
39	Rapidly Assessing the Quality of Targeted Proteomics Experiments through Monitoring Stable-Isotope Labeled Standards. Journal of Proteome Research, 2019, 18, 694-699.	3.7	11
40	Listeria monocytogenes virulence factors, including listeriolysin O, are secreted in biologically active extracellular vesicles. Journal of Biological Chemistry, 2019, 294, 1202-1217.	3.4	108
41	Quality Control Analysis in Real-time (QC-ART): A Tool for Real-time Quality Control Assessment of Mass Spectrometry-based Proteomics Data. Molecular and Cellular Proteomics, 2018, 17, 1824-1836.	3.8	25
42	Rare Earth Elements Alter Redox Balance in Methylomicrobium alcaliphilum 20ZR. Frontiers in Microbiology, 2018, 9, 2735.	3.5	28
43	Concentration-dependent protein loading of extracellular vesicles released by Histoplasma capsulatum after antibody treatment and its modulatory action upon macrophages. Scientific Reports, 2018, 8, 8065.	3.3	66
44	The MPLEx Protocol for Multi-omic Analyses of Soil Samples. Journal of Visualized Experiments, 2018, , .	0.3	19
45	Addressing the challenge of soil metaproteome complexity by improving metaproteome depth of coverage through two-dimensional liquid chromatography. Soil Biology and Biochemistry, 2018, 125, 290-299.	8.8	37
46	Dynamic remodeling of lipids coincides with dengue virus replication in the midgut of Aedes aegypti mosquitoes. PLoS Pathogens, 2018, 14, e1006853.	4.7	106
47	MPLEx: a method for simultaneous pathogen inactivation and extraction of samples for multi-omics profiling. Analyst, The, 2017, 142, 442-448.	3.5	43
48	A unique deubiquitinase that deconjugates phosphoribosyl-linked protein ubiquitination. Cell Research, 2017, 27, 865-881.	12.0	70
49	InvS Coordinates Expression of PrgH and FimZ and Is Required for Invasion of Epithelial Cells by Salmonella enterica serovar Typhimurium. Journal of Bacteriology, 2017, 199, .	2.2	18
50	The Plasmodium falciparum exported protein PF3D7_0402000 binds to erythrocyte ankyrin and band 4.1. Molecular and Biochemical Parasitology, 2017, 216, 5-13.	1.1	7
51	Genes essential for phototrophic growth by a purple alphaproteobacterium. Environmental Microbiology, 2017, 19, 3567-3578.	3.8	23
52	Ancient Regulatory Role of Lysine Acetylation in Central Metabolism. MBio, 2017, 8, .	4.1	105
53	Sexual dimorphism in the fetal cardiac response to maternal nutrient restriction. Journal of Molecular and Cellular Cardiology, 2017, 108, 181-193.	1.9	41
54	A Legionella Effector Disrupts Host Cytoskeletal Structure by Cleaving Actin. PLoS Pathogens, 2017, 13, e1006186.	4.7	53

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55	MPLEx: a Robust and Universal Protocol for Single-Sample Integrative Proteomic, Metabolomic, and Lipidomic Analyses. MSystems, 2016, 1, .	3.8	166
56	Antibody Binding Alters the Characteristics and Contents of Extracellular Vesicles Released by Histoplasma capsulatum. MSphere, 2016, 1, .	2.9	74
57	Identification of Novel Host Interactors of Effectors Secreted by Salmonella and Citrobacter. MSystems, 2016, 1, .	3.8	22
58	Ubiquitination independent of E1 and E2 enzymes by bacterial effectors. Nature, 2016, 533, 120-124.	27.8	284
59	Wolbachia Endosymbionts Modify Drosophila Ovary Protein Levels in a Context-Dependent Manner. Applied and Environmental Microbiology, 2016, 82, 5354-5363.	3.1	30
60	Indoxacarb biotransformation in the German cockroach. Pesticide Biochemistry and Physiology, 2016, 134, 14-23.	3.6	19
61	Identification of Fic-1 as an enzyme that inhibits bacterial DNA replication by AMPylating GyrB, promoting filament formation. Science Signaling, 2016, 9, ra11.	3.6	26
62	Extracellular Vesicles from Trypanosoma brucei Mediate Virulence Factor Transfer and Cause Host Anemia. Cell, 2016, 164, 246-257.	28.9	226
63	Digestion, Purification, and Enrichment of Protein Samples for Mass Spectrometry. Current Protocols in Chemical Biology, 2015, 7, 201-222.	1.7	20
64	Multicopy Single-Stranded DNA Directs Intestinal Colonization of Enteric Pathogens. PLoS Genetics, 2015, 11, e1005472.	3.5	22
65	Global Analysis of Salmonella Alternative Sigma Factor E on Protein Translation. Journal of Proteome Research, 2015, 14, 1716-1726.	3.7	11
66	Analysis of the Salmonella regulatory network suggests involvement of SsrB and H-NS in ÃÆ'É-regulated SPI-2 gene expression. Frontiers in Microbiology, 2015, 6, 27.	3.5	24
67	Identification of Salmonella Typhimurium Deubiquitinase SseL Substrates by Immunoaffinity Enrichment and Quantitative Proteomic Analysis. Journal of Proteome Research, 2015, 14, 4029-4038.	3.7	11
68	Characterization of Lipids and Proteins Associated to the Cell Wall of the Acapsular Mutant Cryptococcus neoformans Cap 67. Journal of Eukaryotic Microbiology, 2015, 62, 591-604.	1.7	5
69	A Novel Link between Fic (Filamentation Induced by cAMP)-mediated Adenylylation/AMPylation and the Unfolded Protein Response. Journal of Biological Chemistry, 2015, 290, 8482-8499.	3.4	99
70	Compositional and immunobiological analyses of extracellular vesicles released byCandida albicans. Cellular Microbiology, 2015, 17, 389-407.	2.1	242
71	Structural and Functional Analysis of a Platelet-Activating Lysophosphatidylcholine of Trypanosoma cruzi. PLoS Neglected Tropical Diseases, 2014, 8, e3077.	3.0	37
72	A Method to Determine Lysine Acetylation Stoichiometries. International Journal of Proteomics, 2014, 2014, 1-8.	2.0	33

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73	The impact of proteomics on the understanding of functions and biogenesis of fungal extracellular vesicles. Journal of Proteomics, 2014, 97, 177-186.	2.4	109
74	Cytomegalovirus pp65 limits dissemination but is dispensable for persistence. Journal of Clinical Investigation, 2014, 124, 1928-1944.	8.2	30
75	Activated ClpP kills persisters and eradicates a chronic biofilm infection. Nature, 2013, 503, 365-370.	27.8	578
76	Top-down proteomics reveals a unique protein S-thiolation switch in Salmonella Typhimurium in response to infection-like conditions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10153-10158.	7.1	140
77	Quantitative site-specific reactivity profiling of S-nitrosylation in mouse skeletal muscle using cysteinyl peptide enrichment coupled with mass spectrometry. Free Radical Biology and Medicine, 2013, 57, 68-78.	2.9	61
78	Identification of human plasma proteins associated with the cell wall of the pathogenic fungusParacoccidioides brasiliensis. FEMS Microbiology Letters, 2013, 341, 87-95.	1.8	8
79	Using Immunoproteomics to Identify Alpha-enolase as an Autoantigen in Liver Fibrosis. Journal of Proteome Research, 2013, 12, 1789-1796.	3.7	42
80	Evaluation of Selected Binding Domains for the Analysis of Ubiquitinated Proteomes. Journal of the American Society for Mass Spectrometry, 2013, 24, 1214-1223.	2.8	7
81	Comparative Phosphoproteomics Reveals Components of Host Cell Invasion and Post-transcriptional Regulation During Francisella Infection. Molecular and Cellular Proteomics, 2013, 12, 3297-3309.	3.8	35
82	Multi-omic Data Integration Links Deleted in Breast Cancer 1 (DBC1) Degradation to Chromatin Remodeling in Inflammatory Response. Molecular and Cellular Proteomics, 2013, 12, 2136-2147.	3.8	3
83	Characterization of Cell Wall Lipids from the Pathogenic Phase of Paracoccidioides brasiliensis Cultivated in the Presence or Absence of Human Plasma. PLoS ONE, 2013, 8, e63372.	2.5	26
84	Computational tool for large-scale GPIomic analysis. , 2012, , .		0
85	Reevaluation of the Coding Potential and Proteomic Analysis of the BAC-Derived Rhesus Cytomegalovirus Strain 68-1. Journal of Virology, 2012, 86, 8959-8973.	3.4	46
86	Modelâ€driven multiâ€omic data analysis elucidates metabolic immunomodulators of macrophage activation. Molecular Systems Biology, 2012, 8, 558.	7.2	142
87	Label-free quantitative proteomics reveals differentially regulated proteins in the latex of sticky diseased Carica papaya L. plants. Journal of Proteomics, 2012, 75, 3191-3198.	2.4	31
88	Studying Salmonellae and Yersiniae Hostâ€“Pathogen Interactions Using Integrated â€˜Omics and Modeling. Current Topics in Microbiology and Immunology, 2012, 363, 21-41.	1.1	10
89	Improved Proteomic Approach for the Discovery of Potential Vaccine Targets in Trypanosoma cruzi. Journal of Proteome Research, 2012, 11, 237-246.	3.7	49
90	Vesicle and Vesicle-Free Extracellular Proteome of Paracoccidioides brasiliensis: Comparative Analysis with Other Pathogenic Fungi. Journal of Proteome Research, 2012, 11, 1676-1685.	3.7	160

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91	Lipidomic Analysis of Extracellular Vesicles from the Pathogenic Phase of Paracoccidioides brasiliensis. PLoS ONE, 2012, 7, e39463.	2.5	101
92	Development of nanoinjector devices for electrospray ionization - tandem mass spectrometry (ESI-MSn). Journal of the Brazilian Chemical Society, 2012, 23, 1762-1766.	0.6	1
93	A novel approach for the characterisation of proteoglycans and biosynthetic enzymes in a snail model. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1862-1869.	2.3	15
94	Technologies and Approaches to Elucidate and Model the Virulence Program of Salmonella. Frontiers in Microbiology, 2011, 2, 121.	3.5	18
95	Histoplasma capsulatum Heat-Shock 60 Orchestrates the Adaptation of the Fungus to Temperature Stress. PLoS ONE, 2011, 6, e14660.	2.5	42
96	Exosomes from Plasmodium yoelii-Infected Reticulocytes Protect Mice from Lethal Infections. PLoS ONE, 2011, 6, e26588.	2.5	167
97	Trypanosoma cruzi Epimastigotes Are Able to Store and Mobilize High Amounts of Cholesterol in Reservosome Lipid Inclusions. PLoS ONE, 2011, 6, e22359.	2.5	42
98	Proteomic analysis of papaya (Carica papaya L.) displaying typical sticky disease symptoms. Proteomics, 2011, 11, 2592-2602.	2.2	35
99	Redundancy of proteins in the salivary glands of Panstrongylus megistus secures prolonged procurement for blood meals. Journal of Proteomics, 2011, 74, 1693-1700.	2.4	21
100	Diversity of anti-haemostatic proteins in the salivary glands of Rhodnius species transmitters of Chagas disease in the greater Amazon. Journal of Proteomics, 2011, 74, 1664-1672.	2.4	8
101	SUMOylation Pathway in Trypanosoma cruzi: Functional Characterization and Proteomic Analysis of Target Proteins. Molecular and Cellular Proteomics, 2011, 10, M110.007369.	3.8	40
102	Global Analysis of Protein Palmitoylation in African Trypanosomes. Eukaryotic Cell, 2011, 10, 455-463.	3.4	62
103	Mass Spectrometric Analysis of Phospholipids and Fatty Acids in Giardia lamblia. , 2011, , 111-125.		0
104	Biogenesis of extracellular vesicles in yeast. Communicative and Integrative Biology, 2010, 3, 533-535.	1.4	41
105	Differential Antitumor Effects of IgG and IgM Monoclonal Antibodies and Their Synthetic Complementarity-Determining Regions Directed to New Targets of B16F10-Nex2 Melanoma Cells. Translational Oncology, 2010, 3, 204-217.	3.7	39
106	Characterization of Yeast Extracellular Vesicles: Evidence for the Participation of Different Pathways of Cellular Traffic in Vesicle Biogenesis. PLoS ONE, 2010, 5, e11113.	2.5	215
107	Characterization of proteinases from the midgut of Rhipicephalus (Boophilus) microplus involved in the generation of antimicrobial peptides. Parasites and Vectors, 2010, 3, 63.	2.5	42
108	Arginase activity in mitochondria â€“ An interfering factor in nitric oxide synthase activity assays. Biochemical and Biophysical Research Communications, 2010, 394, 448-452.	2.1	10

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109	Subcellular Proteomics and Global Analysis of Posttranslational Modifications to Study Functional Roles of Trypanosoma cruzi Molecules. The Open Parasitology Journal, 2010, 4, 167-177.	1.7	2
110	Absence of Nitric-oxide Synthase in Sequentially Purified Rat Liver Mitochondria. Journal of Biological Chemistry, 2009, 284, 19843-19855.	3.4	47
111	GPIomics: global analysis of glycosylphosphatidylinositolâ€anchored molecules of Trypanosoma cruzi. Molecular Systems Biology, 2009, 5, 261.	7.2	77
112	Lipidomic analysis reveals that phosphatidylglycerol and phosphatidylethanolamine are newly generated phospholipids in an early-divergent protozoan, Giardia lamblia. Molecular and Biochemical Parasitology, 2009, 165, 67-78.	1.1	24
113	Subcellular proteomics of Trypanosoma cruzi reservosomes. Proteomics, 2009, 9, 1782-1794.	2.2	69
114	Phosphoproteomic analysis of the human pathogen Trypanosoma cruzi at the epimastigote stage. Proteomics, 2009, 9, 3489-3506.	2.2	38
115	Identification of iGb3 and iGb4 in melanoma B16F10-Nex2 cells and the iNKT cell-mediated antitumor effect of dendritic cells primed with iGb3. Molecular Cancer, 2009, 8, 116.	19.2	15
116	Proteomic Analysis of Detergent-Solubilized Membrane Proteins from Insect-Developmental Forms of Trypanosoma cruzi. Journal of Proteome Research, 2009, 8, 3642-3652.	3.7	57
117	Vesicular transport inHistoplasma capsulatum: an effective mechanism for trans-cell wall transfer of proteins and lipids in ascomycetes. Cellular Microbiology, 2008, 10, 1695-1710.	2.1	329
118	Enhanced Nitrosative Stress during Trypanosoma cruzi Infection Causes Nitrotyrosine Modification of Host Proteins. American Journal of Pathology, 2008, 173, 728-740.	3.8	62
119	Extracellular Vesicles Produced by Cryptococcus neoformans Contain Protein Components Associated with Virulence. Eukaryotic Cell, 2008, 7, 58-67.	3.4	491
120	Using Proteomic Approach to Identify Tumor-Associated Antigens as Markers in Hepatocellular Carcinoma. Journal of Proteome Research, 2008, 7, 4004-4012.	3.7	65
121	Sphingolipid synthesis is necessary for kinetoplast segregation and cytokinesis in Trypanosoma brucei. Journal of Cell Science, 2008, 121, 522-535.	2.0	60
122	Complement inactivating proteins and intraspecies venom variation in Crotalus oreganus helleri. Toxicon, 2007, 49, 339-350.	1.6	31
123	C-Npys (S-3-nitro-2-pyridinesulfenyl) and peptide derivatives can inhibit a serine-thiol proteinase activity from Paracoccidioides brasiliensis. Biochemical and Biophysical Research Communications, 2007, 355, 1000-1005.	2.1	5
124	Post-translational modifications of Trypanosoma cruzi histone H4. Molecular and Biochemical Parasitology, 2006, 150, 268-277.	1.1	66
125	A heme-degradation pathway in a blood-sucking insect. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8030-8035.	7.1	88
126	Trypanosoma cruzi histone H1 is phosphorylated in a typical cyclin dependent kinase site accordingly to the cell cycle. Molecular and Biochemical Parasitology, 2005, 140, 75-86.	1.1	39

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127	Structure, Cellular Distribution, Antigenicity, and Biological Functions of Fonsecaea pedrosoi Ceramide Monohexosides. Infection and Immunity, 2005, 73, 7860-7868.	2.2	49
128	Purification of extracellular and intracellular amastigotes of Trypanosoma cruzi from mammalian host-infected cells. Protocol Exchange, 0, , .	0.3	8