Ernesto S Nakayasu

List of Publications by Year
in descending order

128 papers	7,132 citations	66315 42 h-index	66879 78 g-index
147 all docs	147 docs citations	147 times ranked	9119 citing authors

#	Article	IF	Citations
1	Activated ClpP kills persisters and eradicates a chronic biofilm infection. Nature, 2013, 503, 365-370.	13.7	578
2	Extracellular Vesicles Produced by Cryptococcus neoformans Contain Protein Components Associated with Virulence. Eukaryotic Cell, 2008, 7, 58-67.	3.4	491
3	Vesicular transport inHistoplasma capsulatum: an effective mechanism for trans-cell wall transfer of proteins and lipids in ascomycetes. Cellular Microbiology, 2008, 10, 1695-1710.	1.1	329
4	Ubiquitination independent of E1 and E2 enzymes by bacterial effectors. Nature, 2016, 533, 120-124.	13.7	284
5	Compositional and immunobiological analyses of extracellular vesicles released byCandida albicans. Cellular Microbiology, 2015, 17, 389-407.	1.1	242
6	Extracellular Vesicles from Trypanosoma brucei Mediate Virulence Factor Transfer and Cause Host Anemia. Cell, 2016, 164, 246-257.	13.5	226
7	Characterization of Yeast Extracellular Vesicles: Evidence for the Participation of Different Pathways of Cellular Traffic in Vesicle Biogenesis. PLoS ONE, 2010, 5, e11113.	1.1	215
8	Exosomes from Plasmodium yoelii-Infected Reticulocytes Protect Mice from Lethal Infections. PLoS ONE, 2011, 6, e26588.	1.1	167
9	MPLEx: a Robust and Universal Protocol for Single-Sample Integrative Proteomic, Metabolomic, and Lipidomic Analyses. MSystems, 2016, 1, .	1.7	166
10	Vesicle and Vesicle-Free Extracellular Proteome of Paracoccidioides brasiliensis: Comparative Analysis with Other Pathogenic Fungi. Journal of Proteome Research, 2012, 11, 1676-1685.	1.8	160
11	Modelâ€driven multiâ€omic data analysis elucidates metabolic immunomodulators of macrophage activation. Molecular Systems Biology, 2012, 8, 558.	3.2	142
12	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.	3.3	140
13	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.	9.4	117
14	Tutorial: best practices and considerations for mass-spectrometry-based protein biomarker discovery and validation. Nature Protocols, 2021, 16, 3737-3760.	5.5	110
15	The impact of proteomics on the understanding of functions and biogenesis of fungal extracellular vesicles. Journal of Proteomics, 2014, 97, 177-186.	1.2	109
16	Listeria monocytogenes virulence factors, including listeriolysin O, are secreted in biologically active extracellular vesicles. Journal of Biological Chemistry, 2019, 294, 1202-1217.	1.6	108
17	Dynamic remodeling of lipids coincides with dengue virus replication in the midgut of Aedes aegypti mosquitoes. PLoS Pathogens, 2018, 14, e1006853.	2.1	106
18	Ancient Regulatory Role of Lysine Acetylation in Central Metabolism. MBio, 2017, 8, .	1.8	105

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19	Lipidomic Analysis of Extracellular Vesicles from the Pathogenic Phase of Paracoccidioides brasiliensis. PLoS ONE, 2012, 7, e39463.	1.1	101
20	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.	1.6	99
21	Regulation of phosphoribosyl ubiquitination by a calmodulin-dependent glutamylase. Nature, 2019, 572, 387-391.	13.7	91
22	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.	3.3	88
23	An integrated multi-omics approach identifies the landscape of interferon-Î±-mediated responses of human pancreatic beta cells. Nature Communications, 2020, 11, 2584.	5.8	87
24	Comprehensive Proteomics Analysis of Stressed Human Islets Identifies GDF15 as a Target for Type 1 Diabetes Intervention. Cell Metabolism, 2020, 31, 363-374.e6.	7.2	78
25	GPIomics: global analysis of glycosylphosphatidylinositolâ€anchored molecules of Trypanosoma cruzi. Molecular Systems Biology, 2009, 5, 261.	3.2	77
26	Antibody Binding Alters the Characteristics and Contents of Extracellular Vesicles Released by Histoplasma capsulatum. MSphere, 2016, 1, .	1.3	74
27	A unique deubiquitinase that deconjugates phosphoribosyl-linked protein ubiquitination. Cell Research, 2017, 27, 865-881.	5.7	70
28	Subcellular proteomics of Trypanosoma cruzi reservosomes. Proteomics, 2009, 9, 1782-1794.	1.3	69
29	Post-translational modifications of Trypanosoma cruzi histone H4. Molecular and Biochemical Parasitology, 2006, 150, 268-277.	0.5	66
30	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.	1.6	66
31	Using Proteomic Approach to Identify Tumor-Associated Antigens as Markers in Hepatocellular Carcinoma. Journal of Proteome Research, 2008, 7, 4004-4012.	1.8	65
32	Multi-omics Signature of Candida auris , an Emerging and Multidrug-Resistant Pathogen. MSystems, 2019, 4, .	1.7	65
33	Enhanced Nitrosative Stress during Trypanosoma cruzi Infection Causes Nitrotyrosine Modification of Host Proteins. American Journal of Pathology, 2008, 173, 728-740.	1.9	62
34	Global Analysis of Protein Palmitoylation in African Trypanosomes. Eukaryotic Cell, 2011, 10, 455-463.	3.4	62
35	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.	1.3	61
36	Sphingolipid synthesis is necessary for kinetoplast segregation and cytokinesis in Trypanosoma brucei. Journal of Cell Science, 2008, 121, 522-535.	1.2	60

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37	Proteomic Analysis of Detergent-Solubilized Membrane Proteins from Insect-Developmental Forms of Trypanosoma cruzi. Journal of Proteome Research, 2009, 8, 3642-3652.	1.8	57
38	A Legionella Effector Disrupts Host Cytoskeletal Structure by Cleaving Actin. PLoS Pathogens, 2017, 13, e1006186.	2.1	53
39	Structure, Cellular Distribution, Antigenicity, and Biological Functions of Fonsecaea pedrosoi Ceramide Monohexosides. Infection and Immunity, 2005, 73, 7860-7868.	1.0	49
40	Improved Proteomic Approach for the Discovery of Potential Vaccine Targets in Trypanosoma cruzi. Journal of Proteome Research, 2012, 11, 237-246.	1.8	49
41	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.	1.1	49
42	Absence of Nitric-oxide Synthase in Sequentially Purified Rat Liver Mitochondria. Journal of Biological Chemistry, 2009, 284, 19843-19855.	1.6	47
43	Reevaluation of the Coding Potential and Proteomic Analysis of the BAC-Derived Rhesus Cytomegalovirus Strain 68-1. Journal of Virology, 2012, 86, 8959-8973.	1.5	46
44	Legionella pneumophila inhibits immune signalling via MavC-mediated transglutaminase-induced ubiquitination of UBE2N. Nature Microbiology, 2019, 4, 134-143.	5.9	44
45	MPLEx: a method for simultaneous pathogen inactivation and extraction of samples for multi-omics profiling. Analyst, The, 2017, 142, 442-448.	1.7	43
46	Characterization of proteinases from the midgut of Rhipicephalus (Boophilus) microplus involved in the generation of antimicrobial peptides. Parasites and Vectors, 2010, 3, 63.	1.0	42
47	Histoplasma capsulatum Heat-Shock 60 Orchestrates the Adaptation of the Fungus to Temperature Stress. PLoS ONE, 2011, 6, e14660.	1.1	42
48	Trypanosoma cruzi Epimastigotes Are Able to Store and Mobilize High Amounts of Cholesterol in Reservosome Lipid Inclusions. PLoS ONE, 2011, 6, e22359.	1.1	42
49	Using Immunoproteomics to Identify Alpha-enolase as an Autoantigen in Liver Fibrosis. Journal of Proteome Research, 2013, 12, 1789-1796.	1.8	42
50	Biogenesis of extracellular vesicles in yeast. Communicative and Integrative Biology, 2010, 3, 533-535.	0.6	41
51	Sexual dimorphism in the fetal cardiac response to maternal nutrient restriction. Journal of Molecular and Cellular Cardiology, 2017, 108, 181-193.	0.9	41
52	SUMOylation Pathway in Trypanosoma cruzi: Functional Characterization and Proteomic Analysis of Target Proteins. Molecular and Cellular Proteomics, 2011, 10, M110.007369.	2.5	40
53	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.	0.5	39
54	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.	1.7	39

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55	Phosphoproteomic analysis of the human pathogen Trypanosoma cruzi at the epimastigote stage. Proteomics, 2009, 9, 3489-3506.	1.3	38
56	Legionella pneumophila regulates the activity of <scp>UBE</scp> 2N by deamidaseâ€mediated deubiquitination. EMBO Journal, 2020, 39, e102806.	3.5	38
57	Structural and Functional Analysis of a Platelet-Activating Lysophosphatidylcholine of Trypanosoma cruzi. PLoS Neglected Tropical Diseases, 2014, 8, e3077.	1.3	37
58	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.	4.2	37
59	Proteomic analysis of papaya (Carica papaya L.) displaying typical sticky disease symptoms. Proteomics, 2011, 11, 2592-2602.	1.3	35
60	Comparative Phosphoproteomics Reveals Components of Host Cell Invasion and Post-transcriptional Regulation During Francisella Infection. Molecular and Cellular Proteomics, 2013, 12, 3297-3309.	2.5	35
61	A Method to Determine Lysine Acetylation Stoichiometries. International Journal of Proteomics, 2014, 2014, 1-8.	2.0	33
62	Complement inactivating proteins and intraspecies venom variation in Crotalus oreganus helleri. Toxicon, 2007, 49, 339-350.	0.8	31
63	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.	1.2	31
64	Wolbachia Endosymbionts Modify Drosophila Ovary Protein Levels in a Context-Dependent Manner. Applied and Environmental Microbiology, 2016, 82, 5354-5363.	1.4	30
65	Cytomegalovirus pp65 limits dissemination but is dispensable for persistence. Journal of Clinical Investigation, 2014, 124, 1928-1944.	3.9	30
66	Rare Earth Elements Alter Redox Balance in Methylomicrobium alcaliphilum 20ZR. Frontiers in Microbiology, 2018, 9, 2735.	1.5	28
67	Comparative Molecular and Immunoregulatory Analysis of Extracellular Vesicles from Candida albicans and Candida auris. MSystems, 2021, 6, e0082221.	1.7	27
68	Legionella pneumophila modulates host energy metabolism by ADP-ribosylation of ADP/ATP translocases. ELife, 2022, 11, .	2.8	27
69	Identification of Fic-1 as an enzyme that inhibits bacterial DNA replication by AMPylating GyrB, promoting filament formation. Science Signaling, 2016, 9, ra11.	1.6	26
70	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.	1.1	26
71	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.	2.5	25
72	Prediction of the development of islet autoantibodies through integration of environmental, genetic, and metabolic markers. Journal of Diabetes, 2021, 13, 143-153.	0.8	25

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73	The Legionella Effector SdjA Is a Bifunctional Enzyme That Distinctly Regulates Phosphoribosyl Ubiquitination. MBio, 2021, 12, e0231621.	1.8	25
74	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.	0.5	24
75	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.	1.5	24
76	Genes essential for phototrophic growth by a purple alphaproteobacterium. Environmental Microbiology, 2017, 19, 3567-3578.	1.8	23
77	Multicopy Single-Stranded DNA Directs Intestinal Colonization of Enteric Pathogens. PLoS Genetics, 2015, 11, e1005472.	1.5	22
78	Identification of Novel Host Interactors of Effectors Secreted by Salmonella and Citrobacter. MSystems, 2016, 1, .	1.7	22
79	Redundancy of proteins in the salivary glands of Panstrongylus megistus secures prolonged procurement for blood meals. Journal of Proteomics, 2011, 74, 1693-1700.	1.2	21
80	Digestion, Purification, and Enrichment of Protein Samples for Mass Spectrometry. Current Protocols in Chemical Biology, 2015, 7, 201-222.	1.7	20
81	Indoxacarb biotransformation in the German cockroach. Pesticide Biochemistry and Physiology, 2016, 134, 14-23.	1.6	19
82	The MPLEx Protocol for Multi-omic Analyses of Soil Samples. Journal of Visualized Experiments, 2018, , .	0.2	19
83	Technologies and Approaches to Elucidate and Model the Virulence Program of Salmonella. Frontiers in Microbiology, 2011, 2, 121.	1.5	18
84	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, .	1.0	18
85	Bacterial Longevity Requires Protein Synthesis and a Stringent Response. MBio, 2019, 10, .	1.8	17
86	Parallel Multi-Omics in High-Risk Subjects for the Identification of Integrated Biomarker Signatures of Type 1 Diabetes. Biomolecules, 2021, 11, 383.	1.8	17
87	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.	7.9	15
88	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.	1.1	15
89	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.	0.4	15
90	Transcriptional and translational landscape of Candida auris in response to caspofungin. Computational and Structural Biotechnology Journal, 2021, 19, 5264-5277.	1.9	14

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91	Cryptococcus neoformans-Infected Macrophages Release Proinflammatory Extracellular Vesicles: Insight into Their Components by Multi-omics. MBio, 2021, 12, .	1.8	14
92	DEIMoS: An Open-Source Tool for Processing High-Dimensional Mass Spectrometry Data. Analytical Chemistry, 2022, 94, 6130-6138.	3.2	14
93	Omics Approaches for Understanding Biogenesis, Composition and Functions of Fungal Extracellular Vesicles. Frontiers in Genetics, 2021, 12, 648524.	1.1	13
94	Extending Classification Algorithms to Case-Control Studies. Biomedical Engineering and Computational Biology, 2019, 10, 117959721985895.	0.8	12
95	Cryptococcus neoformans Secretes Small Molecules That Inhibit IL-1Î² Inflammasome-Dependent Secretion. Mediators of Inflammation, 2020, 2020, 1-20.	1.4	12
96	GDF15: a potential therapeutic target for type 1 diabetes. Expert Opinion on Therapeutic Targets, 2022, 26, 57-67.	1.5	12
97	Global Analysis of Salmonella Alternative Sigma Factor E on Protein Translation. Journal of Proteome Research, 2015, 14, 1716-1726.	1.8	11
98	Identification of Salmonella Typhimurium Deubiquitinase SseL Substrates by Immunoaffinity Enrichment and Quantitative Proteomic Analysis. Journal of Proteome Research, 2015, 14, 4029-4038.	1.8	11
99	Rapidly Assessing the Quality of Targeted Proteomics Experiments through Monitoring Stable-Isotope Labeled Standards. Journal of Proteome Research, 2019, 18, 694-699.	1.8	11
100	Remodeling of the Histoplasma Capsulatum Membrane Induced by Monoclonal Antibodies. Vaccines, 2020, 8, 269.	2.1	11
101	Arginase activity in mitochondria â€“ An interfering factor in nitric oxide synthase activity assays. Biochemical and Biophysical Research Communications, 2010, 394, 448-452.	1.0	10
102	Studying Salmonellae and Yersiniae Hostâ€“Pathogen Interactions Using Integrated â€˜Omics and Modeling. Current Topics in Microbiology and Immunology, 2012, 363, 21-41.	0.7	10
103	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.	1.8	10
104	Regulation of Translation by Lysine Acetylation in Escherichia coli. MBio, 2022, 13, .	1.8	10
105	Longitudinal proteomics analysis in the immediate microenvironment of islet allografts during progression of rejection. Journal of Proteomics, 2020, 223, 103826.	1.2	9
106	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.	1.2	8
107	Identification of human plasma proteins associated with the cell wall of the pathogenic fungusParacoccidioides brasiliensis. FEMS Microbiology Letters, 2013, 341, 87-95.	0.7	8
108	The role of proteomics in assessing beta-cell dysfunction and death in type 1 diabetes. Expert Review of Proteomics, 2019, 16, 569-582.	1.3	8

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109	Purification of extracellular and intracellular amastigotes of Trypanosoma cruzi from mammalian host-infected cells. Protocol Exchange, 0, , .	0.3	8
110	Evaluation of Selected Binding Domains for the Analysis of Ubiquitinated Proteomes. Journal of the American Society for Mass Spectrometry, 2013, 24, 1214-1223.	1.2	7
111	The Plasmodium falciparum exported protein PF3D7_0402000 binds to erythrocyte ankyrin and band 4.1. Molecular and Biochemical Parasitology, 2017, 216, 5-13.	0.5	7
112	Fic Proteins Inhibit the Activity of Topoisomerase IV by AMPylation in Diverse Bacteria. Frontiers in Microbiology, 2020, 11, 2084.	1.5	7
113	A Histoplasma capsulatum Lipid Metabolic Map Identifies Antifungal Targets. MBio, 2021, 12, e0297221.	1.8	6
114	Uncovering Hidden Members and Functions of the Soil Microbiome Using De Novo Metaproteomics. Journal of Proteome Research, 2022, 21, 2023-2035.	1.8	6
115	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.	1.0	5
116	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.	0.8	5
117	The Plasmodium falciparum MESA erythrocyte cytoskeleton-binding (MEC) motif binds to erythrocyte ankyrin. Molecular and Biochemical Parasitology, 2019, 231, 111189.	0.5	5
118	Bayesian Inference for Integrating Yarrowia lipolytica Multiomics Datasets with Metabolic Modeling. ACS Synthetic Biology, 2021, 10, 2968-2981.	1.9	4
119	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.	2.5	3
120	Integrated Metabolomics and Proteomics Analyses in the Local Milieu of Islet Allografts in Rejection versus Tolerance. International Journal of Molecular Sciences, 2021, 22, 8754.	1.8	2
121	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
122	Lessons Learned from Studying Histoplasma capsulatum Extracellular Vesicles. Current Topics in Microbiology and Immunology, 2021, 432, 13-18.	0.7	2
123	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
124	Identification of Exported Plasmodium falciparum Proteins That Bind to the Erythrocyte Cytoskeleton. Microorganisms, 2022, 10, 1438.	1.6	1
125	Computational tool for large-scale GPIomic analysis. , 2012, , .		0
126	Mass Spectrometric Analysis of Phospholipids and Fatty Acids in Giardia lamblia. , 2011, , 111-125.		0

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127	Probing islet stress in type 1 diabetes. Aging, 2020, 12, 18795-18796.	1.4	0
128	Probing islet stress in type 1 diabetes. Aging, 2020, 12, 18795-18796.	1.4	0