

David J Gonzalez

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

5,403
citations

279798

23
h-index

128289

60
g-index

72
all docs

72
docs citations

72
times ranked

9314
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016, 34, 828-837.	17.5	2,802
2	Context-Dependent and Disease-Specific Diversity in Protein Interactions within Stress Granules. <i>Cell</i> , 2018, 172, 590-604.e13.	28.9	672
3	Dysregulated Microbial Fermentation of Soluble Fiber Induces Cholestatic Liver Cancer. <i>Cell</i> , 2018, 175, 679-694.e22.	28.9	344
4	Essential metabolism for a minimal cell. <i>ELife</i> , 2019, 8, .	6.0	110
5	Multi-omics analyses of the ulcerative colitis gut microbiome link <i>Bacteroides vulgatus</i> proteases with disease severity. <i>Nature Microbiology</i> , 2022, 7, 262-276.	13.3	110
6	Tamoxifen augments the innate immune function of neutrophils through modulation of intracellular ceramide. <i>Nature Communications</i> , 2015, 6, 8369.	12.8	98
7	<i>Staphylococcus aureus</i> Membrane-Derived Vesicles Promote Bacterial Virulence and Confer Protective Immunity in Murine Infection Models. <i>Frontiers in Microbiology</i> , 2018, 9, 262.	3.5	65
8	Kinetic profiling of metabolic specialists demonstrates stability and consistency of in vivo enzyme turnover numbers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23182-23190.	7.1	65
9	mTORC2 controls the activity of PKC and Akt by phosphorylating a conserved TOR interaction motif. <i>Science Signaling</i> , 2021, 14, .	3.6	64
10	Multiantigenic Nanotoxoids for Antivirulence Vaccination against Antibiotic-Resistant Gram-Negative Bacteria. <i>Nano Letters</i> , 2019, 19, 4760-4769.	9.1	63
11	Quantitative Temporal Viromics of an Inducible HIV-1 Model Yields Insight to Global Host Targets and Phospho-Dynamics Associated with Protein Vpr. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 1447-1461.	3.8	60
12	Mortality Risk Profiling of <i>Staphylococcus aureus</i> Bacteremia by Multi-omic Serum Analysis Reveals Early Predictive and Pathogenic Signatures. <i>Cell</i> , 2020, 182, 1311-1327.e14.	28.9	58
13	Neutrophilic proteolysis in the cystic fibrosis lung correlates with a pathogenic microbiome. <i>Microbiome</i> , 2019, 7, 23.	11.1	53
14	Identification of a Human Skin Commensal Bacterium that Selectively Kills <i>Cutibacterium</i> Acnes. <i>Journal of Investigative Dermatology</i> , 2020, 140, 1619-1628.e2.	0.7	47
15	The tumor suppressor kinase DAPK3 drives tumor-intrinsic immunity through the STING-IFN- β pathway. <i>Nature Immunology</i> , 2021, 22, 485-496.	14.5	45
16	Phosphorylation of serine96 of histidine-rich calcium-binding protein by the Fam20C kinase functions to prevent cardiac arrhythmia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9098-9103.	7.1	43
17	EGFR is required for Wnt9a-Fzd9b signalling specificity in haematopoietic stem cells. <i>Nature Cell Biology</i> , 2019, 21, 721-730.	10.3	42
18	Evaluating Metagenomic Prediction of the Metaproteome in a 4.5-Year Study of a Patient with Crohn's Disease. <i>MSystems</i> , 2019, 4, .	3.8	40

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19	Group B Streptococcus Biofilm Regulatory Protein A Contributes to Bacterial Physiology and Innate Immune Resistance. <i>Journal of Infectious Diseases</i> , 2018, 218, 1641-1652.	4.0	38
20	A Tyrosine Switch on NEDD4-2 E3 Ligase Transmits GPCR Inflammatory Signaling. <i>Cell Reports</i> , 2018, 24, 3312-3323.e5.	6.4	36
21	Optimization of carbon and energy utilization through differential translational efficiency. <i>Nature Communications</i> , 2018, 9, 4474.	12.8	35
22	Mitochondrial H ⁺ -ATP synthase in human skeletal muscle: contribution to dyslipidaemia and insulin resistance. <i>Diabetologia</i> , 2017, 60, 2052-2065.	6.3	32
23	Multi-omics of human plasma reveals molecular features of dysregulated inflammation and accelerated aging in schizophrenia. <i>Molecular Psychiatry</i> , 2022, 27, 1217-1225.	7.9	30
24	Quantitative Multiplex Substrate Profiling of Peptidases by Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 968a-981.	3.8	28
25	Biomimetic Virulomics for Capture and Identification of Cell-Type Specific Effector Proteins. <i>ACS Nano</i> , 2017, 11, 11831-11838.	14.6	27
26	Identification of Common and Rare Genetic Variation Associated With Plasma Protein Levels Using Whole-Exome Sequencing and Mass Spectrometry. <i>Circulation Genomic and Precision Medicine</i> , 2018, 11, e002170.	3.6	26
27	Phosphoproteomic analysis of protease-activated receptor-1 biased signaling reveals unique modulators of endothelial barrier function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5039-5048.	7.1	25
28	Defining Host Responses during Systemic Bacterial Infection through Construction of a Murine Organ Proteome Atlas. <i>Cell Systems</i> , 2018, 6, 579-592.e4.	6.2	23
29	Quantitative analysis of <i>Mycobacterium avium</i> subsp. <i>hominissuis</i> proteome in response to antibiotics and during exposure to different environmental conditions. <i>Clinical Proteomics</i> , 2019, 16, 39.	2.1	23
30	Heat shock protein 27 activity is linked to endothelial barrier recovery after proinflammatory GPCR-induced disruption. <i>Science Signaling</i> , 2021, 14, eabc1044.	3.6	23
31	Pseudopodium-enriched atypical kinase 1 mediates angiogenesis by modulating GATA2-dependent VEGFR2 transcription. <i>Cell Discovery</i> , 2018, 4, 26.	6.7	19
32	Associations of the Fecal Microbial Proteome Composition and Proneness to Diet-induced Obesity. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 1864-1879.	3.8	19
33	Exposure of <i>Mycobacterium abscessus</i> to Environmental Stress and Clinically Used Antibiotics Reveals Common Proteome Response among Pathogenic Mycobacteria. <i>Microorganisms</i> , 2020, 8, 698.	3.6	18
34	Urinary Exosomes Identify Inflammatory Pathways in Vancomycin Associated Acute Kidney Injury. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2784.	4.1	17
35	Group A Streptococcal S Protein Utilizes Red Blood Cells as Immune Camouflage and Is a Critical Determinant for Immune Evasion. <i>Cell Reports</i> , 2019, 29, 2979-2989.e15.	6.4	16
36	Disruption of innate defense responses by endoglycosidase HPSE promotes cell survival. <i>JCI Insight</i> , 2021, 6, .	5.0	14

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37	Antimicrobials from a feline commensal bacterium inhibit skin infection by drug-resistant <i>S. pseudintermedius</i> . <i>ELife</i> , 2021, 10, .	6.0	14
38	CLK1 reorganizes the splicing factor U1-70K for early spliceosomal protein assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
39	Functional and Proteomic Analysis of <i>Streptococcus pyogenes</i> Virulence Upon Loss of Its Native Cas9 Nuclease. <i>Frontiers in Microbiology</i> , 2019, 10, 1967.	3.5	11
40	AssessORF: combining evolutionary conservation and proteomics to assess prokaryotic gene predictions. <i>Bioinformatics</i> , 2020, 36, 1022-1029.	4.1	10
41	The Host-Microbiome Response to Hyperbaric Oxygen Therapy in Ulcerative Colitis Patients. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2022, 14, 35-53.	4.5	10
42	Molecular dissection of Chagas induced cardiomyopathy reveals central disease associated and druggable signaling pathways. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0007980.	3.0	9
43	The $\hat{\pm}$ -Arrestin ARRDC3 Is an Emerging Multifunctional Adaptor Protein in Cancer. <i>Antioxidants and Redox Signaling</i> , 2022, 36, 1066-1079.	5.4	8
44	Identification of the S-transferase like superfamily bacillithiol transferases encoded by <i>Bacillus subtilis</i> . <i>PLoS ONE</i> , 2018, 13, e0192977.	2.5	8
45	<i>PTMphinder</i> : an R package for PTM site localization and motif extraction from proteomic datasets. <i>PeerJ</i> , 2019, 7, e7046.	2.0	8
46	Phosphoproteomic analysis of thrombin- and p38 MAPK-regulated signaling networks in endothelial cells. <i>Journal of Biological Chemistry</i> , 2022, 298, 101801.	3.4	8
47	Multidimensional Proteome Profiling of Blood-Brain Barrier Perturbation by Group B <i>Streptococcus</i> . <i>MSystems</i> , 2020, 5, .	3.8	7
48	Dissociation of DNA damage sensing by endoglycosidase HPSE. <i>IScience</i> , 2021, 24, 102242.	4.1	7
49	Evaluating Organism-Wide Changes in the Metabolome and Microbiome following a Single Dose of Antibiotic. <i>MSystems</i> , 2020, 5, .	3.8	6
50	Development of muscle atrophy and loss of function in a Gulf-War illness model: underlying mechanisms. <i>Scientific Reports</i> , 2020, 10, 14526.	3.3	6
51	Organ-level protein networks as a reference for the host effects of the microbiome. <i>Genome Research</i> , 2020, 30, 276-286.	5.5	6
52	Unique virulence role of post-translocational chaperone PrsA in shaping <i>Streptococcus pyogenes</i> secretome. <i>Virulence</i> , 2021, 12, 2633-2647.	4.4	6
53	A Cdk4/6-dependent phosphorylation gradient regulates the early to late G1 phase transition. <i>Scientific Reports</i> , 2021, 11, 14736.	3.3	5
54	Fermentable fiber-induced hepatocellular carcinoma in mice recapitulates gene signatures found in human liver cancer. <i>PLoS ONE</i> , 2020, 15, e0234726.	2.5	4

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55	A Hetero-Multimeric Chitinase-Containing Plasmodium falciparum and Plasmodium gallinaceum Ookinete-Secreted Protein Complex Involved in Mosquito Midgut Invasion. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 615343.	3.9	4
56	The S Protein of Group B Streptococcus Is a Critical Virulence Determinant That Impacts the Cell Surface Virulome. <i>Frontiers in Microbiology</i> , 2021, 12, 729308.	3.5	4
57	Fermentable fibers induce rapid macro- and micronutrient depletion in Toll-like receptor 5-deficient mice. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, G955-G965.	3.4	3
58	Case Series of Successful Intravenous Immunoglobulin (IVIG) Treatment in 4 Pregnant Patients with Severe COVID-19-Induced Hypoxia. <i>American Journal of Case Reports</i> , 2022, 23, e936734.	0.8	3
59	Contextâ€dependent and Diseaseâ€specific Diversity in Stress Granules Formed from Preâ€existing Protein Interactions. <i>FASEB Journal</i> , 2018, 32, 252.3.	0.5	2
60	Comparative Analysis of T-Cell Spatial Proteomics and the Influence of HIV Expression. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100194.	3.8	2
61	A combined EM and proteomic analysis places HIV-1 Vpu at the crossroads of retromer and ESCRT complexes: PTPN23 is a Vpu-cofactor. <i>PLoS Pathogens</i> , 2021, 17, e1009409.	4.7	0