

Deborah T Hung

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

10,531
citations

76322

40
h-index

69246

77
g-index

94
all docs

94
docs citations

94
times ranked

15315
citing authors

#	ARTICLE	IF	CITATIONS
1	The Use of Tn-Seq and the FiTnEss Analysis to Define the Core Essential Genome of <i>Pseudomonas aeruginosa</i> . <i>Methods in Molecular Biology</i> , 2022, 2377, 179-197.	0.9	0
2	Multiplexed CRISPR-based microfluidic platform for clinical testing of respiratory viruses and identification of SARS-CoV-2 variants. <i>Nature Medicine</i> , 2022, 28, 1083-1094.	30.7	127
3	Early administration of <sc>COVID</sc>â€19 convalescent plasma with high titer antibody content by live viral neutralization assay is associated with modest clinical efficacy. <i>American Journal of Hematology</i> , 2022, 97, 770-779.	4.1	9
4	Preclinical Development of Pentamidine Analogs Identifies a Potent and Nontoxic Antibiotic Adjuvant. <i>ACS Infectious Diseases</i> , 2022, 8, 768-777.	3.8	13
5	Multiplexed detection of bacterial nucleic acids using Cas13 in droplet microarrays. , 2022, 1, pgac021.		15
6	Integrated genomics and chemical biology herald an era of sophisticated antibacterial discovery, from defining essential genes to target elucidation. <i>Cell Chemical Biology</i> , 2022, , .	5.2	2
7	Feasibility and lessons learned on remote trial implementation from TestBoston, a fully remote, longitudinal, large-scale COVID-19 surveillance study. <i>PLoS ONE</i> , 2022, 17, e0269127.	2.5	4
8	Using Proteolytic Hypomorphs to Detect Small Molecule Mechanism of Action. <i>Methods in Molecular Biology</i> , 2021, 2314, 323-342.	0.9	1
9	SARS-CoV-2 hijacks folate and one-carbon metabolism for viral replication. <i>Nature Communications</i> , 2021, 12, 1676.	12.8	102
10	Selective Permeabilization of Gram-Negative Bacterial Membranes Using Multivalent Peptide Constructs for Antibiotic Sensitization. <i>ACS Infectious Diseases</i> , 2021, 7, 721-732.	3.8	17
11	Genetic determinants facilitating the evolution of resistance to carbapenem antibiotics. <i>ELife</i> , 2021, 10, .	6.0	15
12	Dual transcriptional analysis reveals adaptation of host and pathogen to intracellular survival of <i>Pseudomonas aeruginosa</i> associated with urinary tract infection. <i>PLoS Pathogens</i> , 2021, 17, e1009534.	4.7	29
13	COVID-19 tissue atlases reveal SARS-CoV-2 pathology and cellular targets. <i>Nature</i> , 2021, 595, 107-113.	27.8	537
14	Chemical Screen for Vancomycin Antagonism Uncovers Probes of the Gram-Negative Outer Membrane. <i>ACS Chemical Biology</i> , 2021, 16, 929-942.	3.4	29
15	<sc>SARSâ€CoV</sc>â€2 antibody persistence in <sc>COVID</sc>â€19 convalescent plasma donors: Dependency on assay format and applicability to serosurveillance. <i>Transfusion</i> , 2021, 61, 2677-2687.	1.6	46
16	Catalytically impaired TrpA subunit of tryptophan synthase from <i>Chlamydia trachomatis</i> is an allosteric regulator of TrpB. <i>Protein Science</i> , 2021, 30, 1904-1918.	7.6	5
17	Plasma from patients with bacterial sepsis or severe COVID-19 induces suppressive myeloid cell production from hematopoietic progenitors in vitro. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	64
18	B cell genomics behind cross-neutralization of SARS-CoV-2 variants and SARS-CoV. <i>Cell</i> , 2021, 184, 3205-3221.e24.	28.9	73

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19	Large-Scale Chemical-Genetic Strategy Enables the Design of Antimicrobial Combination Chemotherapy in Mycobacteria. ACS Infectious Diseases, 2020, 6, 56-63.	3.8	16
20	Detection of SARS-CoV-2 with SHERLOCK One-Pot Testing. New England Journal of Medicine, 2020, 383, 1492-1494.	27.0	506
21	Massively multiplexed nucleic acid detection with Cas13. Nature, 2020, 582, 277-282.	27.8	492
22	An immune-cell signature of bacterial sepsis. Nature Medicine, 2020, 26, 333-340.	30.7	261
23	Adaptive evolution of virulence and persistence in carbapenem-resistant <i>Klebsiella pneumoniae</i> . Nature Medicine, 2020, 26, 705-711.	30.7	148
24	LB-11. Comparison of Viral Loads in Individuals With or Without Symptoms At Time of COVID-19 Testing Among 32,480 Residents and Staff of Nursing Homes and Assisted Living Facilities in Massachusetts. Open Forum Infectious Diseases, 2020, 7, S848-S849.	0.9	7
25	A Point of Inflection and Reflection on Systems Chemical Biology. ACS Chemical Biology, 2019, 14, 2497-2511.	3.4	8
26	Single-Cell RNA Sequencing to Understand Host-Pathogen Interactions. ACS Infectious Diseases, 2019, 5, 336-344.	3.8	36
27	Large-scale chemical genetics yields new <i>M. tuberculosis</i> inhibitor classes. Nature, 2019, 571, 72-78.	27.8	119
28	Mutations in <i>pmrB</i> Confer Cross-Resistance between the LptD Inhibitor POL7080 and Colistin in <i>Pseudomonas aeruginosa</i> . Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	26
29	Defining the core essential genome of <i>Pseudomonas aeruginosa</i> . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10072-10080.	7.1	132
30	Rapid identification and phylogenetic classification of diverse bacterial pathogens in a multiplexed hybridization assay targeting ribosomal RNA. Scientific Reports, 2019, 9, 4516.	3.3	11
31	Hybridization-based capture of pathogen mRNA enables paired host-pathogen transcriptional analysis. Scientific Reports, 2019, 9, 19244.	3.3	27
32	Simultaneous detection of genotype and phenotype enables rapid and accurate antibiotic susceptibility determination. Nature Medicine, 2019, 25, 1858-1864.	30.7	85
33	The Expanding Diversity of <i>Mycobacterium tuberculosis</i> Drug Targets. ACS Infectious Diseases, 2018, 4, 696-714.	3.8	60
34	Whole-organism phenotypic screening for anti-infectives promoting host health. Nature Chemical Biology, 2018, 14, 331-341.	8.0	14
35	Generation of mouse-zebrafish hematopoietic tissue chimeric embryos for hematopoiesis and host-pathogen interaction studies. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	19
36	Discovery of heterocyclic replacements for the coumarin core of anti-tubercular FadD32 inhibitors. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 3529-3533.	2.2	13

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37	Harnessing CRISPR Effectors for Infectious Disease Diagnostics. <i>ACS Infectious Diseases</i> , 2018, 4, 1278-1282.	3.8	58
38	Carbapenem Resistance Caused by High-Level Expression of OXA-663 β -Lactamase in an OmpK36-Deficient <i>Klebsiella pneumoniae</i> Clinical Isolate. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	14
39	Multi-institute analysis of carbapenem resistance reveals remarkable diversity, unexplained mechanisms, and limited clonal outbreaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1135-1140.	7.1	158
40	Nucleic acid detection with CRISPR-Cas13a/C2c2. <i>Science</i> , 2017, 356, 438-442.	12.6	2,275
41	A small-molecule allosteric inhibitor of <i>Mycobacterium tuberculosis</i> tryptophan synthase. <i>Nature Chemical Biology</i> , 2017, 13, 943-950.	8.0	100
42	Ribosomal mutations promote the evolution of antibiotic resistance in a multidrug environment. <i>ELife</i> , 2017, 6, .	6.0	53
43	scDual-Seq: mapping the gene regulatory program of <i>Salmonella</i> infection by host and pathogen single-cell RNA-sequencing. <i>Genome Biology</i> , 2017, 18, 200.	8.8	82
44	Metagenomic Sequencing of an Echovirus 30 Genome From Cerebrospinal Fluid of a Patient With Aseptic Meningitis and Orchitis. <i>Open Forum Infectious Diseases</i> , 2017, 4, ofx138.	0.9	13
45	Systematic, multiparametric analysis of <i>Mycobacterium tuberculosis</i> intracellular infection offers insight into coordinated virulence. <i>PLoS Pathogens</i> , 2017, 13, e1006363.	4.7	94
46	Structural Insight into Allosteric Inhibition of <i>Mycobacterium tuberculosis</i> Tryptophan Synthase. <i>FASEB Journal</i> , 2017, 31, 765.12.	0.5	1
47	A perspective on single cell behavior during infection. <i>Gut Microbes</i> , 2016, 7, 518-525.	9.8	11
48	Genomic Analysis of the Evolution of Fluoroquinolone Resistance in <i>Mycobacterium tuberculosis</i> Prior to Tuberculosis Diagnosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 6600-6608.	3.2	19
49	A highly multiplexed and sensitive RNA-seq protocol for simultaneous analysis of host and pathogen transcriptomes. <i>Nature Protocols</i> , 2016, 11, 1477-1491.	12.0	46
50	Baeyer-Villiger Monooxygenases EthA and MymA Are Required for Activation of Replicating and Non-replicating <i>Mycobacterium tuberculosis</i> Inhibitors. <i>Cell Chemical Biology</i> , 2016, 23, 666-677.	5.2	46
51	Loss of a Class A Penicillin-Binding Protein Alters β -Lactam Susceptibilities in <i>Mycobacterium tuberculosis</i> . <i>ACS Infectious Diseases</i> , 2016, 2, 104-110.	3.8	19
52	Direct detection and drug-resistance profiling of bacteremias using inertial microfluidics. <i>Lab on A Chip</i> , 2015, 15, 2297-2307.	6.0	119
53	Simultaneous generation of many RNA-seq libraries in a single reaction. <i>Nature Methods</i> , 2015, 12, 323-325.	19.0	256
54	Pathogen Cell-to-Cell Variability Drives Heterogeneity in Host Immune Responses. <i>Cell</i> , 2015, 162, 1309-1321.	28.9	255

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55	Identification of Host-Targeted Small Molecules That Restrict Intracellular Mycobacterium tuberculosis Growth. <i>PLoS Pathogens</i> , 2014, 10, e1003946.	4.7	234
56	Bacterial toxins and small molecules elucidate endosomal trafficking. <i>Trends in Microbiology</i> , 2014, 22, 53-55.	7.7	0
57	Mechanisms of β -lactam killing and resistance in the context of Mycobacterium tuberculosis. <i>Journal of Antibiotics</i> , 2014, 67, 645-654.	2.0	61
58	Identification of Novel Inhibitors of Nonreplicating Mycobacterium tuberculosis Using a Carbon Starvation Model. <i>ACS Chemical Biology</i> , 2013, 8, 2224-2234.	3.4	79
59	Synthesis and structure-activity relationships of phenyl-substituted coumarins with anti-tubercular activity that target FadD32. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 6052-6059.	2.2	56
60	Diarylcoumarins inhibit mycolic acid biosynthesis and kill <i>Mycobacterium tuberculosis</i> by targeting FadD32. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11565-11570.	7.1	89
61	Persistent bacterial infections, antibiotic tolerance, and the oxidative stress response. <i>Virulence</i> , 2013, 4, 273-283.	4.4	287
62	RNA signatures allow rapid identification of pathogens and antibiotic susceptibilities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6217-6222.	7.1	94
63	The Two-Component Sensor KinB Acts as a Phosphatase To Regulate Pseudomonas aeruginosa Virulence. <i>Journal of Bacteriology</i> , 2012, 194, 6537-6547.	2.2	23
64	Identification of Novel Inhibitors of <i>M. tuberculosis</i> Growth Using Whole Cell Based High-Throughput Screening. <i>ACS Chemical Biology</i> , 2012, 7, 1377-1384.	3.4	232
65	Eradication of bacterial persisters with antibiotic-generated hydroxyl radicals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12147-12152.	7.1	226
66	Probing bacterial pathogenesis with genetics, genomics, and chemical biology: past, present, and future approaches. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2011, 46, 41-66.	5.2	4
67	The Sensor Kinase KinB Regulates Virulence in Acute Pseudomonas aeruginosa Infection. <i>Journal of Bacteriology</i> , 2011, 193, 2989-2999.	2.2	37
68	The two-component sensor kinase KinB acts as a non-canonical switch between acute and chronic infection. <i>Virulence</i> , 2011, 2, 553-558.	4.4	6
69	<i>Pseudomonas aeruginosa</i> Infection of Zebrafish Involves both Host and Pathogen Determinants. <i>Infection and Immunity</i> , 2009, 77, 1293-1303.	2.2	157
70	Chemical Tools for Dissecting Bacterial Physiology and Virulence. <i>Biochemistry</i> , 2009, 48, 8776-8786.	2.5	11
71	Sensitive, specific polymorphism discovery in bacteria using massively parallel sequencing. <i>Nature Methods</i> , 2009, 6, 67-69.	19.0	58
72	Productive steps toward an antimicrobial targeting virulence. <i>Current Opinion in Microbiology</i> , 2009, 12, 490-496.	5.1	93

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73	Virstatin inhibits dimerization of the transcriptional activator ToxT. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2372-2377.	7.1	135
74	Targeting virulence: a new paradigm for antimicrobial therapy. Nature Chemical Biology, 2007, 3, 541-548.	8.0	1,159
75	Anti-virulence approaches to antimicrobial therapy. FASEB Journal, 2007, 21, .	0.5	0
76	Bile acids stimulate biofilm formation in <i>Vibrio cholerae</i> . Molecular Microbiology, 2006, 59, 193-201.	2.5	147
77	Chemical biology and bacteria: not simply a matter of life or death. Current Opinion in Chemical Biology, 2006, 10, 321-326.	6.1	9
78	Bile acids induce cholera toxin expression in <i>Vibrio cholerae</i> in a ToxT-independent manner. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3028-3033.	7.1	151
79	Small-Molecule Inhibitor of <i>Vibrio cholerae</i> Virulence and Intestinal Colonization. Science, 2005, 310, 670-674.	12.6	325
80	A new era for sepsis treatment? Understanding sepsis as a consequence of host immune response. Expert Opinion on Therapeutic Patents, 2002, 12, 181-192.	5.0	0
81	Syntheses of Discodermolides Useful for Investigating Microtubule Binding and Stabilization. Journal of the American Chemical Society, 1996, 118, 11054-11080.	13.7	141