

Dara W Frank

List of Publications by Year in descending order

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52
papers

4,109
citations

201674

27
h-index

197818

49
g-index

52
all docs

52
docs citations

52
times ranked

2367
citing authors

#	ARTICLE	IF	CITATIONS
1	Amyloid β Precursor Protein: Essential to Lung Capillary Barrier Defense During Acute Infection. FASEB Journal, 2022, 36, .	0.5	0
2	Host phospholipid peroxidation fuels ExoU-dependent cell necrosis and supports Pseudomonas aeruginosa-driven pathology. PLoS Pathogens, 2021, 17, e1009927.	4.7	10
3	Perspectives on the Pseudomonas aeruginosa Type III Secretion System Effector ExoU and Its Subversion of the Host Innate Immune Response to Infection. Toxins, 2021, 13, 880.	3.4	10
4	Characterization of the ExoU activation mechanism using EPR and integrative modeling. Scientific Reports, 2020, 10, 19700.	3.3	13
5	Virulent <i>Pseudomonas aeruginosa</i> infection converts antimicrobial amyloids into cytotoxic prions. FASEB Journal, 2020, 34, 9156-9179.	0.5	26
6	Achromobacter xylosoxidans Cellular Pathology Is Correlated with Activation of a Type III Secretion System. Infection and Immunity, 2020, 88, .	2.2	18
7	Exoenzyme Y induces extracellular active caspase-7 accumulation independent from apoptosis: modulation of transmissible cytotoxicity. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 319, L380-L390.	2.9	13
8	Conformational Changes and Membrane Interaction of the Bacterial Phospholipase, ExoU: Characterization by Site-Directed Spin Labeling. Cell Biochemistry and Biophysics, 2019, 77, 79-87.	1.8	5
9	Identification and Verification of Ubiquitin-Activated Bacterial Phospholipases. Journal of Bacteriology, 2019, 201, .	2.2	9
10	Identification of a ubiquitin-binding interface using Rosetta and DEER. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 525-530.	7.1	26
11	Cooperative Substrate-Cofactor Interactions and Membrane Localization of the Bacterial Phospholipase A2 (PLA2) Enzyme, ExoU. Journal of Biological Chemistry, 2017, 292, 3411-3419.	3.4	26
12	Pseudomonas aeruginosa infection liberates transmissible, cytotoxic prion amyloids. FASEB Journal, 2017, 31, 2785-2796.	0.5	31
13	Structure and Dynamics of Type III Secretion Effector Protein ExoU As determined by SDSL-EPR Spectroscopy in Conjunction with De Novo Protein Folding. ACS Omega, 2017, 2, 2977-2984.	3.5	11
14	The Pseudomonas aeruginosa Exoenzyme Y: A Promiscuous Nucleotidyl Cyclase Edema Factor and Virulence Determinant. Handbook of Experimental Pharmacology, 2016, 238, 67-85.	1.8	23
15	<i>Pseudomonas aeruginosa</i> exoenzymes U and Y induce a transmissible endothelial proteinopathy. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L337-L353.	2.9	32
16	Cross Kingdom Activators of Five Classes of Bacterial Effectors. PLoS Pathogens, 2015, 11, e1004944.	4.7	11
17	cCMP and cUMP occur in vivo. Biochemical and Biophysical Research Communications, 2015, 460, 909-914.	2.1	31
18	Reproducible and Quantitative Model of Infection of Dermacentor variabilis with the Live Vaccine Strain of Francisella tularensis. Applied and Environmental Microbiology, 2015, 81, 386-395.	3.1	7

#	ARTICLE	IF	CITATIONS
19	Ubiquitin Activates Patatin-Like Phospholipases from Multiple Bacterial Species. <i>Journal of Bacteriology</i> , 2015, 197, 529-541.	2.2	49
20	Intoxication of Host Cells by the T3SS Phospholipase ExoU: PI(4,5)P2-Associated, Cytoskeletal Collapse and Late Phase Membrane Blebbing. <i>PLoS ONE</i> , 2014, 9, e103127.	2.5	37
21	The <i>Pseudomonas aeruginosa</i> exoenzyme Y impairs endothelial cell proliferation and vascular repair following lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 306, L915-L924.	2.9	63
22	ExoY from <i>Pseudomonas aeruginosa</i> is a nucleotidyl cyclase with preference for cGMP and cUMP formation. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 870-874.	2.1	59
23	Identification of the Major Ubiquitin-binding Domain of the <i>Pseudomonas aeruginosa</i> ExoU A2 Phospholipase. <i>Journal of Biological Chemistry</i> , 2013, 288, 26741-26752.	3.4	33
24	Research topic on <i>Pseudomonas aeruginosa</i> , biology, genetics, and host-pathogen interactions. <i>Frontiers in Microbiology</i> , 2012, 3, 20.	3.5	10
25	Induced Conformational Changes in the Activation of the <i>Pseudomonas aeruginosa</i> type III Toxin, ExoU. <i>Biophysical Journal</i> , 2011, 100, 1335-1343.	0.5	18
26	Ubiquitin and ubiquitin-modified proteins activate the <i>Pseudomonas aeruginosa</i> T3SS cytotoxin, ExoU. <i>Molecular Microbiology</i> , 2011, 82, 1454-1467.	2.5	79
27	Activation of ExoU Phospholipase Activity Requires Specific C-Terminal Regions. <i>Journal of Bacteriology</i> , 2010, 192, 1801-1812.	2.2	25
28	A sensitive fluorescence-based assay for the detection of ExoU-mediated PLA2 activity. <i>Clinica Chimica Acta</i> , 2010, 411, 190-197.	1.1	22
29	<i>P. aeruginosa</i> ExoY Increases Lung Endothelial Permeability with a Concomitant Decrease in Lung Vascular Compliance. <i>FASEB Journal</i> , 2009, 23, 1024.11.	0.5	0
30	exoY increases <i>Pseudomonas aeruginosa</i> virulence. <i>FASEB Journal</i> , 2008, 22, 928.6.	0.5	1
31	Pseudolipasin A Is a Specific Inhibitor for Phospholipase A2 Activity of <i>Pseudomonas aeruginosa</i> Cytotoxin ExoU. <i>Infection and Immunity</i> , 2007, 75, 1089-1098.	2.2	72
32	Genetics and Genetic Manipulation in <i>Francisella tularensis</i> . <i>Annals of the New York Academy of Sciences</i> , 2007, 1105, 67-97.	3.8	29
33	Identification of Superoxide Dismutase as a Cofactor for the <i>Pseudomonas</i> Type III Toxin, ExoU. <i>Biochemistry</i> , 2006, 45, 10368-10375.	2.5	66
34	Acquisition and Evolution of the exoU Locus in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2006, 188, 4037-4050.	2.2	95
35	Paradoxical cAMP-Induced Lung Endothelial Hyperpermeability Revealed by <i>Pseudomonas aeruginosa</i> ExoY. <i>Circulation Research</i> , 2004, 95, 196-203.	4.5	107
36	ExoU is a potent intracellular phospholipase. <i>Molecular Microbiology</i> , 2004, 53, 1279-1290.	2.5	253

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37	The mechanism of action of the <i>Pseudomonas aeruginosa</i> -encoded type III cytotoxin, ExoU. <i>EMBO Journal</i> , 2003, 22, 2959-2969.	7.8	321
38	Generation and Characterization of a Protective Monoclonal Antibody to <i>Pseudomonas aeruginosa</i> PcrV. <i>Journal of Infectious Diseases</i> , 2002, 186, 64-73.	4.0	162
39	Type III Protein Secretion Is Associated with Death in Lower Respiratory and Systemic <i>Pseudomonas aeruginosa</i> Infections. <i>Journal of Infectious Diseases</i> , 2001, 183, 1767-1774.	4.0	446
40	Multiple Domains Are Required for the Toxic Activity of <i>Pseudomonas aeruginosa</i> ExoU. <i>Journal of Bacteriology</i> , 2001, 183, 4330-4344.	2.2	63
41	Intracellular localization and processing of <i>Pseudomonas aeruginosa</i> ExoS in eukaryotic cells. <i>Molecular Microbiology</i> , 2000, 37, 287-299.	2.5	37
42	ExoT of Cytotoxic <i>Pseudomonas aeruginosa</i> Prevents Uptake by Corneal Epithelial Cells. <i>Infection and Immunity</i> , 2000, 68, 403-406.	2.2	97
43	The amino-terminal domain of <i>Pseudomonas aeruginosa</i> ExoS disrupts actin filaments via small-molecular-weight GTP-binding proteins. <i>Molecular Microbiology</i> , 1999, 32, 393-401.	2.5	142
44	Pathogenesis of septic shock in <i>Pseudomonas aeruginosa</i> pneumonia. <i>Journal of Clinical Investigation</i> , 1999, 104, 743-750.	8.2	278
45	Identification and Characterization of SpcU, a Chaperone Required for Efficient Secretion of the ExoU Cytotoxin. <i>Journal of Bacteriology</i> , 1998, 180, 6224-6231.	2.2	2
46	Identification and Characterization of SpcU, a Chaperone Required for Efficient Secretion of the ExoU Cytotoxin. <i>Journal of Bacteriology</i> , 1998, 180, 6224-6231.	2.2	61
47	ExoU expression by <i>Pseudomonas aeruginosa</i> correlates with acute cytotoxicity and epithelial injury. <i>Molecular Microbiology</i> , 1997, 25, 547-557.	2.5	508
48	The exoenzyme S regulon of <i>Pseudomonas aeruginosa</i> . <i>Molecular Microbiology</i> , 1997, 26, 621-629.	2.5	366
49	Exoenzyme S of <i>Pseudomonas aeruginosa</i> is secreted by a type III pathway. <i>Molecular Microbiology</i> , 1996, 22, 991-1003.	2.5	278
50	Genetic analysis of exoenzyme S expression by <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 1996, 135, 149-155.	1.8	26
51	Genetic analysis of exoenzyme S expression by <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 1996, 135, 149-155.	1.8	2
52	AraC Family Regulators and Transcriptional Control of Bacterial Virulence Determinants. , 0, , 39-54.		0