

# Dara W Frank

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8068551/publications.pdf>

Version: 2024-02-01

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	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
2	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
3	The exoenzyme S regulon of <i>Pseudomonas aeruginosa</i> . <i>Molecular Microbiology</i> , 1997, 26, 621-629.	2.5	366
4	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
5	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
6	Pathogenesis of septic shock in <i>Pseudomonas aeruginosa</i> pneumonia. <i>Journal of Clinical Investigation</i> , 1999, 104, 743-750.	8.2	278
7	ExoU is a potent intracellular phospholipase. <i>Molecular Microbiology</i> , 2004, 53, 1279-1290.	2.5	253
8	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
9	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
10	Paradoxical cAMP-Induced Lung Endothelial Hyperpermeability Revealed by <i>Pseudomonas aeruginosa</i> ExoY. <i>Circulation Research</i> , 2004, 95, 196-203.	4.5	107
11	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
12	Acquisition and Evolution of the <i>exoU</i> Locus in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2006, 188, 4037-4050.	2.2	95
13	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
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Ubiquitin Activates Patatin-Like Phospholipases from Multiple Bacterial Species. <i>Journal of Bacteriology</i> , 2015, 197, 529-541.	2.2	49
21	Intracellular localization and processing of <i>Pseudomonas aeruginosa</i> ExoS in eukaryotic cells. <i>Molecular Microbiology</i> , 2000, 37, 287-299.	2.5	37
22	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
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	<i>Pseudomonas aeruginosa</i> exoenzymes U and Y induce a transmissible endothelial proteinopathy. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 310, L337-L353.	2.9	32
25	cCMP and cUMP occur in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 909-914.	2.1	31
26	<i>Pseudomonas aeruginosa</i> infection liberates transmissible, cytotoxic prion amyloids. <i>FASEB Journal</i> , 2017, 31, 2785-2796.	0.5	31
27	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
28	Genetic analysis of exoenzyme S expression by <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 1996, 135, 149-155.	1.8	26
29	Cooperative Substrate-Cofactor Interactions and Membrane Localization of the Bacterial Phospholipase A2 (PLA2) Enzyme, ExoU. <i>Journal of Biological Chemistry</i> , 2017, 292, 3411-3419.	3.4	26
30	Identification of a ubiquitin-binding interface using Rosetta and DEER. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 525-530.	7.1	26
31	Virulent <i>Pseudomonas aeruginosa</i> infection converts antimicrobial amyloids into cytotoxic prions. <i>FASEB Journal</i> , 2020, 34, 9156-9179.	0.5	26
32	Activation of ExoU Phospholipase Activity Requires Specific C-Terminal Regions. <i>Journal of Bacteriology</i> , 2010, 192, 1801-1812.	2.2	25
33	The <i>Pseudomonas aeruginosa</i> Exoenzyme Y: A Promiscuous Nucleotidyl Cyclase Edema Factor and Virulence Determinant. <i>Handbook of Experimental Pharmacology</i> , 2016, 238, 67-85.	1.8	23
34	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
35	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
36	<i>Achromobacter xylosoxidans</i> Cellular Pathology Is Correlated with Activation of a Type III Secretion System. <i>Infection and Immunity</i> , 2020, 88, .	2.2	18

#	ARTICLE	IF	CITATIONS
37	Characterization of the ExoU activation mechanism using EPR and integrative modeling. <i>Scientific Reports</i> , 2020, 10, 19700.	3.3	13
38	Exoenzyme Y induces extracellular active caspase-7 accumulation independent from apoptosis: modulation of transmissible cytotoxicity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L380-L390.	2.9	13
39	Cross Kingdom Activators of Five Classes of Bacterial Effectors. <i>PLoS Pathogens</i> , 2015, 11, e1004944.	4.7	11
40	Structure and Dynamics of Type III Secretion Effector Protein ExoU As determined by SDSL-EPR Spectroscopy in Conjunction with De Novo Protein Folding. <i>ACS Omega</i> , 2017, 2, 2977-2984.	3.5	11
41	Research topic on <i>Pseudomonas aeruginosa</i> , biology, genetics, and host-pathogen interactions. <i>Frontiers in Microbiology</i> , 2012, 3, 20.	3.5	10
42	Host phospholipid peroxidation fuels ExoU-dependent cell necrosis and supports <i>Pseudomonas aeruginosa</i> -driven pathology. <i>PLoS Pathogens</i> , 2021, 17, e1009927.	4.7	10
43	Perspectives on the <i>Pseudomonas aeruginosa</i> Type III Secretion System Effector ExoU and Its Subversion of the Host Innate Immune Response to Infection. <i>Toxins</i> , 2021, 13, 880.	3.4	10
44	Identification and Verification of Ubiquitin-Activated Bacterial Phospholipases. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	9
45	Reproducible and Quantitative Model of Infection of <i>Dermacentor variabilis</i> with the Live Vaccine Strain of <i>Francisella tularensis</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 386-395.	3.1	7
46	Conformational Changes and Membrane Interaction of the Bacterial Phospholipase, ExoU: Characterization by Site-Directed Spin Labeling. <i>Cell Biochemistry and Biophysics</i> , 2019, 77, 79-87.	1.8	5
47	Genetic analysis of exoenzyme S expression by <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 1996, 135, 149-155.	1.8	2
48	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
49	exoY increases <i>Pseudomonas aeruginosa</i> virulence. <i>FASEB Journal</i> , 2008, 22, 928.6.	0.5	1
50	<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
51	AraC Family Regulators and Transcriptional Control of Bacterial Virulence Determinants. , 0, , 39-54.		0
52	Amyloid- $\beta$ Precursor Protein: Essential to Lung Capillary Barrier Defense During Acute Infection. <i>FASEB Journal</i> , 2022, 36, .	0.5	0