# Dara W Frank

List of Publications by Year
in descending order

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|---|---|---|---|
| 52 papers | 4,109 citations | 201575 27 h-index | 197736 49 g-index |
| 52 all docs | 52 docs citations | 52 times ranked | 2367 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | ExoU expression by Pseudomonas aeruginosa correlates with acute cytotoxicity and epithelial injury. Molecular Microbiology, 1997, 25, 547-557. | 1.2 | 508 |
| 2 | Type III Protein Secretion Is Associated with Death in Lower Respiratory and SystemicPseudomonas aeruginosaInfections. Journal of Infectious Diseases, 2001, 183, 1767-1774. | 1.9 | 446 |
| 3 | The exoenzyme S regulon of Pseudomonas aeruginosa. Molecular Microbiology, 1997, 26, 621-629. | 1.2 | 366 |
| 4 | The mechanism of action of the Pseudomonas aeruginosa-encoded type III cytotoxin, ExoU. EMBO Journal, 2003, 22, 2959-2969. | 3.5 | 321 |
| 5 | Exoenzyme S of Pseudomonas aeruginosa is secreted by a type III pathway. Molecular Microbiology, 1996, 22, 991-1003. | 1.2 | 278 |
| 6 | Pathogenesis of septic shock in Pseudomonas aeruginosa pneumonia. Journal of Clinical Investigation, 1999, 104, 743-750. | 3.9 | 278 |
| 7 | ExoU is a potent intracellular phospholipase. Molecular Microbiology, 2004, 53, 1279-1290. | 1.2 | 253 |
| 8 | Generation and Characterization of a Protective Monoclonal Antibody toPseudomonas aeruginosaPcrV. Journal of Infectious Diseases, 2002, 186, 64-73. | 1.9 | 162 |
| 9 | The amino-terminal domain of Pseudomonas aeruginosa ExoS disrupts actin filaments via small-molecular-weight GTP-binding proteins. Molecular Microbiology, 1999, 32, 393-401. | 1.2 | 142 |
| 10 | Paradoxical cAMP-Induced Lung Endothelial Hyperpermeability Revealed byPseudomonas aeruginosaExoY. Circulation Research, 2004, 95, 196-203. | 2.0 | 107 |
| 11 | ExoT of Cytotoxic Pseudomonas aeruginosa Prevents Uptake by Corneal Epithelial Cells. Infection and Immunity, 2000, 68, 403-406. | 1.0 | 97 |
| 12 | Acquisition and Evolution of the exoU Locus in Pseudomonas aeruginosa. Journal of Bacteriology, 2006, 188, 4037-4050. | 1.0 | 95 |
| 13 | Ubiquitin and ubiquitinâ€modified proteins activate the Pseudomonas aeruginosa T3SS cytotoxin, ExoU. Molecular Microbiology, 2011, 82, 1454-1467. | 1.2 | 79 |
| 14 | Pseudolipasin A Is a Specific Inhibitor for Phospholipase A2 Activity of Pseudomonas aeruginosa Cytotoxin ExoU. Infection and Immunity, 2007, 75, 1089-1098. | 1.0 | 72 |
| 15 | Identification of Superoxide Dismutase as a Cofactor for thePseudomonasType III Toxin, ExoUâ€. Biochemistry, 2006, 45, 10368-10375. | 1.2 | 66 |
| 16 | Multiple Domains Are Required for the Toxic Activity of Pseudomonas aeruginosa ExoU. Journal of Bacteriology, 2001, 183, 4330-4344. | 1.0 | 63 |
| 17 | The Pseudomonas aeruginosa exoenzyme Y impairs endothelial cell proliferation and vascular repair following lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L915-L924. | 1.3 | 63 |
| 18 | Identification and Characterization of SpcU, a Chaperone Required for Efficient Secretion of the ExoU Cytotoxin. Journal of Bacteriology, 1998, 180, 6224-6231. | 1.0 | 61 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | ExoY from Pseudomonas aeruginosa is a nucleotidyl cyclase with preference for cGMP and cUMP formation. Biochemical and Biophysical Research Communications, 2014, 450, 870-874. | 1.0 | 59 |
| 20 | Ubiquitin Activates Patatin-Like Phospholipases from Multiple Bacterial Species. Journal of Bacteriology, 2015, 197, 529-541. | 1.0 | 49 |
| 21 | Intracellular localization and processing of Pseudomonas aeruginosa ExoS in eukaryotic cells. Molecular Microbiology, 2000, 37, 287-299. | 1.2 | 37 |
| 22 | Intoxication of Host Cells by the T3SS Phospholipase ExoU: PI(4,5)P2-Associated, Cytoskeletal Collapse and Late Phase Membrane Blebbing. PLoS ONE, 2014, 9, e103127. | 1.1 | 37 |
| 23 | Identification of the Major Ubiquitin-binding Domain of the Pseudomonas aeruginosa ExoU A2 Phospholipase. Journal of Biological Chemistry, 2013, 288, 26741-26752. | 1.6 | 33 |
| 24 | Pseudomonas aeruginosa exoenzymes U and Y induce a transmissible endothelial proteinopathy. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L337-L353. | 1.3 | 32 |
| 25 | cCMP and cUMP occur inÂvivo. Biochemical and Biophysical Research Communications, 2015, 460, 909-914. | 1.0 | 31 |
| 26 | Pseudomonas aeruginosa infection liberates transmissible, cytotoxic prion amyloids. FASEB Journal, 2017, 31, 2785-2796. | 0.2 | 31 |
| 27 | Genetics and Genetic Manipulation in Francisella Tularensis. Annals of the New York Academy of Sciences, 2007, 1105, 67-97. | 1.8 | 29 |
| 28 | Genetic analysis of exoenzyme S expression byPseudomonas aeruginosa. FEMS Microbiology Letters, 1996, 135, 149-155. | 0.7 | 26 |
| 29 | Cooperative Substrate-Cofactor Interactions and Membrane Localization of the Bacterial Phospholipase A2 (PLA2) Enzyme, ExoU. Journal of Biological Chemistry, 2017, 292, 3411-3419. | 1.6 | 26 |
| 30 | 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. | 3.3 | 26 |
| 31 | Virulent Pseudomonas aeruginosa infection converts antimicrobial amyloids into cytotoxic prions. FASEB Journal, 2020, 34, 9156-9179. | 0.2 | 26 |
| 32 | Activation of ExoU Phospholipase Activity Requires Specific C-Terminal Regions. Journal of Bacteriology, 2010, 192, 1801-1812. | 1.0 | 25 |
| 33 | The Pseudomonas aeruginosa Exoenzyme Y: A Promiscuous Nucleotidyl Cyclase Edema Factor and Virulence Determinant. Handbook of Experimental Pharmacology, 2016, 238, 67-85. | 0.9 | 23 |
| 34 | A sensitive fluorescence-based assay for the detection of ExoU-mediated PLA2 activity. Clinica Chimica Acta, 2010, 411, 190-197. | 0.5 | 22 |
| 35 | Induced Conformational Changes in the Activation of the Pseudomonas aeruginosa type III Toxin, ExoU. Biophysical Journal, 2011, 100, 1335-1343. | 0.2 | 18 |
| 36 | Achromobacter xylosoxidans Cellular Pathology Is Correlated with Activation of a Type III Secretion System. Infection and Immunity, 2020, 88, . | 1.0 | 18 |

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|---|---|---|---|
| 37 | Characterization of the ExoU activation mechanism using EPR and integrative modeling. Scientific Reports, 2020, 10, 19700. | 1.6 | 13 |
| 38 | 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. | 1.3 | 13 |
| 39 | Cross Kingdom Activators of Five Classes of Bacterial Effectors. PLoS Pathogens, 2015, 11, e1004944. | 2.1 | 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. ACS Omega, 2017, 2, 2977-2984. | 1.6 | 11 |
| 41 | Research topic on Pseudomonas aeruginosa, biology, genetics, and hostâ€“pathogen interactions. Frontiers in Microbiology, 2012, 3, 20. | 1.5 | 10 |
| 42 | Host phospholipid peroxidation fuels ExoU-dependent cell necrosis and supports Pseudomonas aeruginosa-driven pathology. PLoS Pathogens, 2021, 17, e1009927. | 2.1 | 10 |
| 43 | 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. | 1.5 | 10 |
| 44 | Identification and Verification of Ubiquitin-Activated Bacterial Phospholipases. Journal of Bacteriology, 2019, 201, . | 1.0 | 9 |
| 45 | 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. | 1.4 | 7 |
| 46 | Conformational Changes and Membrane Interaction of the Bacterial Phospholipase, ExoU: Characterization by Site-Directed Spin Labeling. Cell Biochemistry and Biophysics, 2019, 77, 79-87. | 0.9 | 5 |
| 47 | Genetic analysis of exoenzyme S expression by Pseudomonas aeruginosa. FEMS Microbiology Letters, 1996, 135, 149-155. | 0.7 | 2 |
| 48 | Identification and Characterization of SpcU, a Chaperone Required for Efficient Secretion of the ExoU Cytotoxin. Journal of Bacteriology, 1998, 180, 6224-6231. | 1.0 | 2 |
| 49 | exoY increases Pseudomonas aeruginosa virulence. FASEB Journal, 2008, 22, 928.6. | 0.2 | 1 |
| 50 | P. aeruginosa ExoY Increases Lung Endothelial Permeability with a Concomitant Decrease in Lung Vascular Compliance. FASEB Journal, 2009, 23, 1024.11. | 0.2 | 0 |
| 51 | AraC Family Regulators and Transcriptional Control of Bacterial Virulence Determinants. , 0, , 39-54. | | 0 |
| 52 | Amyloidâ€Beta Precursor Protein: Essential to Lung Capillary Barrier Defense During Acute Infection. FASEB Journal, 2022, 36, . | 0.2 | 0 |