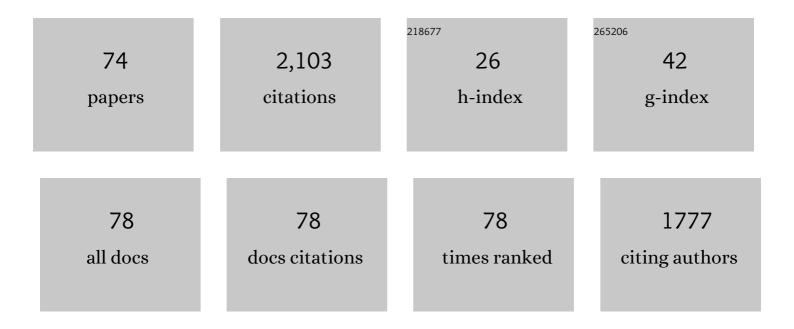
List of Publications by Year in descending order

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ALLAN MEDDILL

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Mapping the DNA-Binding Motif of Scabin Toxin, a Guanine Modifying Enzyme from Streptomyces scabies. Toxins, 2021, 13, 55. | 3.4 | 4 |
| 2 | Anti-Virulence Strategy against the Honey Bee Pathogenic Bacterium Paenibacillus larvae via Small Molecule Inhibitors of the Bacterial Toxin Plx2A. Toxins, 2021, 13, 607. | 3.4 | 5 |
| 3 | The N-terminus of Paenibacillus larvae C3larvinA modulates catalytic efficiency. Bioscience Reports, 2021, 41, . | 2.4 | 4 |
| 4 | Development of Anti-Virulence Therapeutics against Mono-ADP-Ribosyltransferase Toxins. Toxins, 2021, 13, 16. | 3.4 | 5 |
| 5 | Plant Natural Products as Antimicrobials for Control of Streptomyces scabies: A Causative Agent of the Common Scab Disease. Frontiers in Microbiology, 2021, 12, 833233. | 3.5 | 5 |
| 6 | A Structural Approach to Anti-Virulence: A Discovery Pipeline. Microorganisms, 2021, 9, 2514. | 3.6 | 2 |
| 7 | Several New Putative Bacterial ADP-Ribosyltransferase Toxins Are Revealed from In Silico Data Mining, Including the Novel Toxin Vorin, Encoded by the Fire Blight Pathogen Erwinia amylovora. Toxins, 2020, 12, 792. | 3.4 | 4 |
| 8 | Evaluation of Dry and Wet Formulations of Oxalic Acid, Thymol, and Oregano Oil for Varroa Mite (Acari: Varroidae) Control in Honey Bee (Hymenoptera: Apidae) Colonies. Journal of Economic Entomology, 2020, 113, 2588-2594. | 1.8 | 5 |
| 9 | Characterization of C3larvinA, a novel RhoA-targeting ADP-ribosyltransferase toxin produced by the honey bee pathogen, <i>Paenibacillus larvae</i> . Bioscience Reports, 2020, 40, . | 2.4 | 10 |
| 10 | An In-Silico Sequence-Structure-Function Analysis of the N-Terminal Lobe in CT Group Bacterial ADP-Ribosyltransferase Toxins. Toxins, 2019, 11, 365. | 3.4 | 6 |
| 11 | In Situ Electrochemical and PM-IRRAS Studies of Colicin E1 Ion Channels in the Floating Bilayer Lipid Membrane. Langmuir, 2019, 35, 8452-8459. | 3.5 | 10 |
| 12 | Characterization of the catalytic signature of Scabin toxin, a DNA-targeting ADP-ribosyltransferase. Biochemical Journal, 2018, 475, 225-245. | 3.7 | 13 |
| 13 | Dynamics of Scabin toxin. A proposal for the binding mode of the DNA substrate. PLoS ONE, 2018, 13, e0194425. | 2.5 | 10 |
| 14 | Characterization of the toxin Plx2A, a RhoAâ€ŧargeting ADPâ€ŧibosyltransferase produced by the honey bee pathogen <i>Paenibacillus larvae</i> . Environmental Microbiology, 2017, 19, 5100-5116. | 3.8 | 20 |
| 15 | Scabin, a Novel DNA-acting ADP-ribosyltransferase from Streptomyces scabies. Journal of Biological Chemistry, 2016, 291, 11198-11215. | 3.4 | 44 |
| 16 | Resolving the 3D spatial orientation of helix I in the closed state of the colicin E1 channel domain by FRET. Insights into the integration mechanism. Archives of Biochemistry and Biophysics, 2016, 608, 52-73. | 3.0 | 2 |
| 17 | Structural variability of C3larvin toxin. Intrinsic dynamics of the α/β fold of the C3-like group of mono-ADP-ribosyltransferase toxins. Journal of Biomolecular Structure and Dynamics, 2016, 34, 1-24. | 3.5 | 6 |
| 18 | The Father, Son and Cholix Toxin: The Third Member of the DT Group Mono-ADP-Ribosyltransferase Toxin Family. Toxins, 2015, 7, 2757-2772. | 3.4 | 13 |

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| 19 | C3larvin Toxin, an ADP-ribosyltransferase from Paenibacillus larvae. Journal of Biological Chemistry, 2015, 290, 1639-1653. | 3.4 | 41 |
| 20 | Pocket analysis of the full-length cholix toxin. An assessment of the structure–dynamics of theapocatalytic domain. Journal of Biomolecular Structure and Dynamics, 2015, 33, 2452-2468. | 3.5 | 8 |
| 21 | A comparative structure-function analysis of active-site inhibitors ofVibrio choleraecholix toxin. Journal of Molecular Recognition, 2015, 28, 539-552. | 2.1 | 8 |
| 22 | Characterization of Vis Toxin, a Novel ADP-Ribosyltransferase from <i>Vibrio splendidus</i> . Biochemistry, 2015, 54, 5920-5936. | 2.5 | 15 |
| 23 | A Pharmacophore Approach for Novel Inhibitors of Pseudomonas Aeruginosa Exotoxin A. Biophysical Journal, 2013, 104, 404a. | 0.5 | 0 |
| 24 | Identification of catalytically important amino acid residues for enzymatic reduction of glyoxylate in plants. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 2663-2671. | 2.3 | 11 |
| 25 | Harmonic Analysis of the Fluorescence Response of Bimane Adducts of Colicin E1 at Helices 6, 7, and 10. Journal of Biological Chemistry, 2013, 288, 5136-5148. | 3.4 | 12 |
| 26 | Certhrax Toxin, an Anthrax-related ADP-ribosyltransferase from Bacillus cereus. Journal of Biological Chemistry, 2012, 287, 41089-41102. | 3.4 | 31 |
| 27 | Characterization of an Actin-targeting ADP-ribosyltransferase from Aeromonas hydrophila. Journal of Biological Chemistry, 2012, 287, 37030-37041. | 3.4 | 14 |
| 28 | The 1.8 Ã Cholix Toxin Crystal Structure in Complex with NAD+ and Evidence for a New Kinetic Model. Journal of Biological Chemistry, 2012, 287, 21176-21188. | 3.4 | 18 |
| 29 | Linking Distinct Conformations of Nicotinamide Adenine Dinucleotide with Protein Fold/Function. Journal of Physical Chemistry B, 2011, 115, 7932-7939. | 2.6 | 17 |
| 30 | Membrane Topology of the Colicin E1 Channel Using Genetically Encoded Fluorescence. Biochemistry, 2011, 50, 4830-4842. | 2.5 | 12 |
| 31 | Atomic Force Microscopy Studies of a Floating-Bilayer Lipid Membrane on a Au(111) Surface Modified with a Hydrophilic Monolayer. Langmuir, 2011, 27, 10867-10877. | 3.5 | 60 |
| 32 | A Microwave-Assisted Synthesis of (S)-N-Protected Homoserine γ-Lactones froml-Aspartic Acid. Journal of Organic Chemistry, 2011, 76, 6825-6831. | 3.2 | 4 |
| 33 | Electrochemical and STM Studies of 1-Thio-β- <scp>d</scp> -glucose Self-Assembled on a Au(111) Electrode Surface. Langmuir, 2011, 27, 13383-13389. | 3.5 | 23 |
| 34 | Newly Discovered and Characterized Antivirulence Compounds Inhibit Bacterial Mono-ADP-Ribosyltransferase Toxins. Antimicrobial Agents and Chemotherapy, 2011, 55, 983-991. | 3.2 | 31 |
| 35 | Cholera- and Anthrax-Like Toxins Are among Several New ADP-Ribosyltransferases. PLoS Computational Biology, 2010, 6, e1001029. | 3.2 | 53 |
| 36 | ADP-Ribosylation of Cross-Linked Actin Generates Barbed-End Polymerization-Deficient F-Actin Oligomers. Biochemistry, 2010, 49, 8944-8954. | 2.5 | 17 |

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| 37 | Photox, a Novel Actin-targeting Mono-ADP-ribosyltransferase from Photorhabdus luminescens. Journal of Biological Chemistry, 2010, 285, 13525-13534. | 3.4 | 41 |
| 38 | Yeast as a tool for characterizing mono-ADP-ribosyltransferase toxins. FEMS Microbiology Letters, 2009, 300, 97-106. | 1.8 | 25 |
| 39 | Evidence for the Amphipathic Nature and Tilted Topology of Helices 4 and 5 in the Closed State of the Colicin E1 Channel. Biochemistry, 2009, 48, 1369-1380. | 2.5 | 14 |
| 40 | The nature and character of the transition state for the ADPâ€ribosyltransferase reaction. EMBO Reports, 2008, 9, 802-809. | 4.5 | 76 |
| 41 | Needle in the haystack: structure-based toxin discovery. Trends in Biochemical Sciences, 2008, 33, 546-556. | 7.5 | 58 |
| 42 | Cholix Toxin, a Novel ADP-ribosylating Factor from Vibrio cholerae. Journal of Biological Chemistry, 2008, 283, 10671-10678. | 3.4 | 126 |
| 43 | Identification of Small Molecule Inhibitors of Pseudomonas aeruginosa Exoenzyme S Using a Yeast Phenotypic Screen. PLoS Genetics, 2008, 4, e1000005. | 3.5 | 84 |
| 44 | The role of the diphthamide-containing loop within eukaryotic elongation factor 2 in ADP-ribosylation by <i>Pseudomonas aeruginosa</i> exotoxin A. Biochemical Journal, 2008, 413, 163-174. | 3.7 | 21 |
| 45 | Sordarin Derivatives Induce a Novel Conformation of the Yeast Ribosome Translocation Factor eEF2. Journal of Biological Chemistry, 2007, 282, 657-666. | 3.4 | 30 |
| 46 | Characteristics of an Arabidopsis glyoxylate reductase: general biochemical properties and substrate specificity for the recombinant protein, and developmental expression and implications for glyoxylate and succinic semialdehyde metabolism in planta. Canadian Journal of Botany, 2007, 85, 883-895. | 1.1 | 43 |
| 47 | Kinetic mechanism of a recombinant Arabidopsis glyoxylate reductase: studies of initial velocity, dead-end inhibition and product inhibition. Canadian Journal of Botany, 2007, 85, 896-902. | 1.1 | 15 |
| 48 | Tilted, Extended, and Lying in Wait:  The Membrane-Bound Topology of Residues Lys-381â^'Ser-405 of the Colicin E1 Channel Domain. Biochemistry, 2007, 46, 6074-6085. | 2.5 | 15 |
| 49 | Structures of modified eEF2·80S ribosome complexes reveal the role of GTP hydrolysis in translocation. EMBO Journal, 2007, 26, 2421-2431. | 7.8 | 171 |
| 50 | Human α-defensins neutralize toxins of the mono-ADP-ribosyltransferase family. Biochemical Journal, 2006, 399, 225-229. | 3.7 | 49 |
| 51 | Stealth and mimicry by deadly bacterial toxins. Trends in Biochemical Sciences, 2006, 31, 123-133. | 7.5 | 104 |
| 52 | Scanning the Membrane-bound Conformation of Helix 1 in the Colicin E1 Channel Domain by Site-directed Fluorescence Labeling. Journal of Biological Chemistry, 2006, 281, 885-895. | 3.4 | 31 |
| 53 | Toward Elucidating the Membrane Topology of Helix Two of the Colicin E1 Channel Domain. Journal of Biological Chemistry, 2006, 281, 32375-32384. | 3.4 | 12 |
| 54 | Structure–function analysis of water-soluble inhibitors of the catalytic domain of exotoxin A from Pseudomonas aeruginosa. Biochemical Journal, 2005, 385, 667-675. | 3.7 | 49 |

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| 55 | Characterization of oxidized nicotinamide adenine dinucleotide (NAD+) analogues using a high-pressure-liquid-chromatography-based NAD+-glycohydrolase assay and comparison with fluorescence-based measurements. Analytical Biochemistry, 2005, 340, 41-51. | 2.4 | 17 |
| 56 | Exotoxin A–eEF2 complex structure indicates ADP ribosylation by ribosome mimicry. Nature, 2005, 436, 979-984. | 27.8 | 117 |
| 57 | Crystal Structure of ADP-ribosylated Ribosomal Translocase from Saccharomyces cerevisiae. Journal of Biological Chemistry, 2004, 279, 45919-45925. | 3.4 | 46 |
| 58 | Elucidation of eukaryotic elongation factor-2 contact sites within the catalytic domain of Pseudomonas aeruginosa exotoxin A. Biochemical Journal, 2004, 379, 563-572. | 3.7 | 24 |
| 59 | Toward the Elucidation of the Catalytic Mechanism of the Mono-ADP-Ribosyltransferase Activity ofPseudomonas aeruginosaExotoxin Aâ€. Biochemistry, 2004, 43, 183-194. | 2.5 | 20 |
| 60 | ldentification of peptide inhibitors ofPseudomonas aeruginosaexotoxin A function using a yeast two-hybrid approach. FEMS Microbiology Letters, 2003, 218, 85-92. | 1.8 | 5 |
| 61 | The Molecular Basis for the pH-activation Mechanism in the Channel-forming Bacterial Colicin E1. Journal of Biological Chemistry, 2003, 278, 24491-24499. | 3.4 | 22 |
| 62 | Insight into the Catalytic Mechanism of Pseudomonas aeruginosa Exotoxin A. Journal of Biological Chemistry, 2002, 277, 46669-46675. | 3.4 | 31 |
| 63 | A re-evaluation of the role of histidine-426 within Pseudomonas aeruginosa exotoxin A. Biochemical Journal, 2002, 367, 601-608. | 3.7 | 8 |
| 64 | Characterization of Competitive Inhibitors for the Transferase Activity of Pseudomonas aeruginosa Exotoxin A. Journal of Enzyme Inhibition and Medicinal Chemistry, 2002, 17, 235-246. | 5.2 | 21 |
| 65 | Determination of membrane protein topology by red-edge excitation shift analysis: application to the membrane-bound colicin E1 channel peptide. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1564, 435-448. | 2.6 | 34 |
| 66 | ProteinProtein Interaction Using Tryptophan Analogues:Â Novel Spectroscopic Probes for ToxinElongation Factor-2 Interactionsâ€. Biochemistry, 2001, 40, 10273-10283. | 2.5 | 27 |
| 67 | Adventures in Membrane Protein Topology. Journal of Biological Chemistry, 1999, 274, 24539-24549. | 3.4 | 31 |
| 68 | A Fluorescence Investigation of the Active Site ofPseudomonas aeruginosa Exotoxin A. Journal of Biological Chemistry, 1999, 274, 15646-15654. | 3.4 | 20 |
| 69 | Colicin E1 forms a dimer after urea-induced unfolding. Biochemical Journal, 1999, 340, 631-638. | 3.7 | 13 |
| 70 | Identification of a Chameleon-like pH-Sensitive Segment within the Colicin E1 Channel Domain That May Serve as the pH-Activated Trigger for Membrane Bilayer Associationâ€. Biochemistry, 1997, 36, 6874-6884. | 2.5 | 22 |
| 71 | Characterization of an Unfolding Intermediate and Kinetic Analysis of Guanidine Hydrochloride-Induced Denaturation of the Colicin E1 Channel Peptide. Biochemistry, 1997, 36, 3037-3046. | 2.5 | 14 |
| 72 | In Vitro Enzyme Activation and Folded Stability of Pseudomonas aeruginosa Exotoxin A and Its C-Terminal Peptide. Biochemistry, 1996, 35, 9042-9051. | 2.5 | 25 |

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| 73 | Investigation into the Catalytic Role for the Tryptophan Residues within Domain III ofPseudomonas aeruginosaExotoxin Aâ€. Biochemistry, 1996, 35, 15134-15142. | 2.5 | 45 |
| 74 | Solution NMR studies of colicin E1 C-terminal thermolytic peptide. Structural comparison with colicin A and the effects of pH changes. FEBS Journal, 1990, 191, 155-161. | 0.2 | 35 |