



Drew V. Carson

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OVERVIEW

Drew Carson is a patent technical specialist in the firm's IP Procurement and Portfolio Management practice group. Drew completed a Ph.D. in chemical and biological engineering at Princeton University, where his research focused on bioactive natural products, specifically a class of bacterial peptides known as lasso peptides, where he studied their biosynthesis, structures, and mechanisms of action. Prior to Princeton, Drew attended Penn State University, where he graduated with an honors degree in chemical engineering as well as a mathematics minor. Drew has experience in technologies related to chemical engineering, biological engineering, molecular biology, biochemistry, microbiology, and chemistry.

EDUCATION

- Ph.D., Princeton University, 2025 (*Chemical and Biological Engineering*)
- M.A., Princeton University, 2021 (*Chemical and Biological Engineering*)
- B.S., Pennsylvania State University, 2019 (*Chemical Engineering, with honors*)

OTHER PUBLICATIONS

- Johnson TG, Miller DM, Carson DV, Choi B, Link AJ. Repositioning the Leader Peptide in Grasp peptide Biosynthesis. *Journal of the American Chemical Society* 2026, 148: 10859-10868.
- Guarracino DA, Carson DV, Johnson TG, Link AJ. Probing Thrombosis Initiation with Lasso Peptide Variants as Inhibitors to the von Willebrand Protein-Collagen interaction. *ChemBioChem* 2025, 26: e202500188.
- Carson DV, Juarez R, Do T, Yang Z, Link AJ. The antimicrobial lasso peptide cloacaenodin utilizes a unique TonB-dependent transporter to access susceptible bacteria. *ACS Chemical Biology* 2024, 19(4): 981-991.
- Carson DV, Zhang Y, So L, Cheung-Lee WL, Jaramillo Cartagena A, Darst SA, Link AJ. Discovery, Characterization, and Bioactivity of the Achromonodins: Lasso Peptides Encoded by *Achromobacter*. *Journal of Natural Products* 2023, 86(11): 2448-2456.

- Carson DV, Patiño M, Elashal HE, Jaramillo Cartagena A, Zhang Y, Whitley ME, So L, Kayser-Browne AK, Earl AM, Bhattacharyya RP, Link AJ. Cloacaenodin, an antimicrobial lasso peptide with activity against *Enterobacter*. *ACS Infectious Diseases* 2023, 9(1): 111-121.
- Tu Y-M, Song W, Ren T, Shen Y-X, Chowdhury R, Rajapaksha P, Culp TE, Samineni L, Lang C, Thokkadam A, Carson D, Dai Y, Mukthar A, Zhang M, Parshin A, Sloan JN, Medina SH, Grzelakowski M, Bhattacharya D, Phillip WA, Gomez ED, Hickey RJ, Wei Y, Kumar M. Rapid fabrication of precise high-throughput filters from membrane protein nanosheets. *Nature Materials* 2020. 19(3): 347-354.

AREAS OF FOCUS

- IP Procurement and Portfolio Management