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PUBLICATIONS & PATENTS

Publications

- **Kearney, S. E.** et al. "Axially Chiral Cannabinoids: Design, Synthesis, and Cannabinoid Receptor Affinity." *J. Am. Chem. Soc.* **2023**, 145, 13581–13591.
- Shi, L. et al. "SULT1A1-Dependent Sulfonation of Alkylators is a lineage-dependent vulnerability of liver cancers." *Nat. Cancer.* **2023**, 4, 365 – 381.
- **Kearney, S. E.** et al. "Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space." *ACS Cent. Sci.* **2018**, 4, 1727-1741.
- Yang, G.; Zhang, Y.; Lee, N. K.; Cozad, M. A.; **Kearney, S. E.**; Luesch, H.; Ding, Y. "Cyanobacterial Sfp-type phosphopantetheinyl transferases functionalize carrier proteins of diverse biosynthetic pathways." *Scientific Reports.* **2017**, 7, 11888.

Patents

- Grenning, A. J.; **Kearney, S. E.**; A New Route for Synthesizing Axially Chiral Cannabinoids from Coumarins. PCT/US2022/081229, filed December 9, 2022.

PRESENTATIONS

- **Kearney, S. E.** et al. "From Beaker to Bedside: Chemistry in the NCATS Early Translation Branch." Poster, presented at: Organic Reactions & Processes Gordon Research Conference; Smithfield, RI, 2024.
- **Kearney, S. E.**, Gangano, A. J.; Ghiviriga, I.; Grenning, A. J. "Tuning Reaction Trajectories Enables the Synthesis of Axially Chiral Cannabinols." Poster, presented at: Organic Reactions & Processes Gordon Research Conference; Smithfield, RI, 2022.
- **Kearney, S. E.**, Gangano, A. J.; Ghiviriga, I.; Grenning, A. J. "New Strategies for the Synthesis of Axially Chiral Cannabinoids." Poster, presented at: Florida Heterocyclic & Synthetic Chemistry Conference; Gainesville, FL, 2022.
- **Kearney, S. E.** & Grenning, A. J. "Curtin-Hammett [4+2] or [3,3]: Controlling reaction trajectories via catalysis to synthesize axially chiral cannabinoids or pyranocoumarins." Lecture, presented at: Telluride Workshop (virtual); 2021.
- **Kearney, S. E.**, Navaratne, P. V.; Wilkerson, J. L.; Ranasinghe, K. D.; Semenova, E.; Felix, J. S.; Ghiviriga, I.; Roitberg, A.; McMahon, L. R.; Grenning, A. J. "Synthesis of Axially Chiral Cannabinols for Cannabinoid-Based Drug Discovery." Poster, presented at: Florida Heterocyclic and Synthetic Chemistry Conference; Gainesville, FL, 2020.

- **Kearney, S. E.**; Zhang, Y.; Wan, K. K.; Caffall, Z.; Shipman, M.; Shen, M.; Calakos, N.; Hall, M. D.; Marugan, J. J.; Rohde, J. M. "Development of Small-Molecule Modulators of TorsinA Protein Mislocalization for the Treatment of DYT1 Dystonia." Poster, presented at: Postbac Poster Day, National Institutes of Health; Bethesda, MD, 2018.
- **Kearney, S. E.** "The Role of Medicinal Chemistry in Translational Science." Lecture, presented at: NCATS Connector Seminar, NIH National Center for Advancing Translational Sciences; Rockville, MD, 2017.
- **Kearney, S. E.**, Cheff, D. M.; Choe, J. Y.; Ferraris, R. P.; Oprea, T. I.; Ursu, O.; Jadhav, A.; Jansen, D. J.; Hall, M. D.; Rohde, J. M. "Development of Potent and Selective Modulators of Human Fructose Transporter GLUT5." Poster, presented at: Postbac Poster Day; National Institutes of Health, Bethesda, MD, 2017.

Invited Lectures

- **Kearney, S. E.** "Axially Chiral Cannabinoids: Design, Synthesis, and Cannabinoid Receptor Affinity." Research Spotlight, presented at: Synthesis Workshop; 2023.
- **Kearney, S. E.** "Axially Chiral Cannabinoids: Design, Synthesis, and Cannabinoid Receptor Affinity." Lecture, presented at: ACS Northwest Regional Meeting; 2023.
- **Kearney, S. E.** & Grenning, A. J.; "Design and Synthesis of Axially Chiral Cannabinols for Cannabinoid-Inspired Drug Discovery." Lecture, presented at: Open Science Livestream (virtual); 2022.
- **Kearney, S. E.**, Gangano, A. J.; Ghiviriga, I.; Grenning, A. J. "Tuning Reaction Trajectories Enables the Synthesis of Axially Chiral Cannabinols or Pyranocoumarins." Lecture, presented at: Corteva Chemistry Scholars Symposium; Indianapolis, IN, 2022.
- **Kearney, S. E.** & Grenning, A. J. "Curtin-Hammett [4+2] or [3,3]: Controlling reaction trajectories via catalysis to synthesize axially chiral cannabinoids or pyranocoumarins." Lecture, presented at: Synth-posium by the Sea (virtual); 2021.
- **Kearney, S. E.** "Medicinal Chemistry: The Magic of Molecules." Lecture, presented at: The German International School Washington D.C.; Potomac, MD. 2018.