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Overview

About Kimberly

Kimberly Maize is a technology specialist and patent agent in the Twin Cities office of Fish & Richardson P.C. Her practice focuses on patent prosecution in chemical, biochemical, and pharmaceutical areas. Prior to joining Fish, Dr. Maize was a postdoctoral associate in the department of medicinal chemistry at the University of Minnesota.

Focus Areas

Services

- Patent

Industries

- Chemicals
- Life Sciences

Education

M.S., Patent Law, University of Minnesota Law School (2017)

Ph.D., Medicinal Chemistry, University of Minnesota (2016)

B.A. *cum laude*, Chemistry, Amherst College (2011)

Insights

Selected Publications and Presentations

Shah, R.*; Maize, K. M.*; Zhou, X.; Finzel, B. C.; Wagner, C. R. Caught Before Released: Structural Mapping of the Reaction Trajectory for the Sofosbuvir Activating Enzyme, Human Histidine Triad Nucleotide Binding Protein 1 (hHint1). Biochemistry 2017, 56 (28) 3559-3570. *Co-first author

Liu, F.; Dawadi, S.; Maize, K. M.; Dai, R.; Park, S. W.; Schnappinger, D.; Finzel, B. C.; Aldrich, C. C. Structure-Based Optimization of Pyridoxal 5'-Phosphate-Dependent Transaminase Enzyme (BioA) Inhibitors That Target Biotin Biosynthesis in *Mycobacterium Tuberculosis*. Journal of Medicinal Chemistry 2017, 60 (13) 5507-5520.

Eiden, C. G.; Maize, K. M.; Finzel, B. C.; Lipscomb, J. D.; Aldrich, C. C. Rational Optimization of Mechanism-Based Inhibitors through Determination of the Microscopic Rate Constants of Inactivation. Journal of the American Chemical Society 2017, 139 (21), 7132-7135.

Maize, K.; Shah, R.; Strom, A.; Wagner, C.; Finzel, B. Understanding hHint-1 Mediated Prodrug Activation. 66th Annual Meeting of the American Crystallographic Association. Denver, CO. July 22-26, 2016.

Maize, K.; Shah, R.; Strom, A.; Finzel, B.; Wagner, C. Building the Next Sofosbuvir: Structural Insights into hHint1-Catalyzed Nucleoside Phosphoramidate Activation. XXII International Roundtable on Nucleosides, Nucleotides, and Nucleic Acids. Paris, France. July 18-22, 2016

Maize, K. M.; Kurbanov, E. K.; Johnson, R. L.; Amin, E. A.; Finzel, B. C. Ligand-Induced Expansion of the S1? Site in the Anthrax Toxin Lethal Factor. FEBS Letters 2015, 589 (24PartB), 3836-3841.

Maize, K. M.*; Kurbanov, E. K.*; De La Mora-Rey, T.; Geders, T. W.; Hwang, D.-J.; Walters, M. A.; Johnson, R. L.; Amin, E. A.; Finzel, B. C. Anthrax Toxin Lethal Factor Domain 3 Is Highly Mobile and Responsive to Ligand Binding. Acta Crystallog. D Biol. Crystallogr. 2014, 70, 2813–2822. *Co-first author

Maize, K.; Zhang, X.; Amin, E. Statistical Analysis, Optimization, and Prioritization of Virtual Screening Parameters for Zinc Enzymes Including the Anthrax Toxin Lethal Factor. Current Topics in Medicinal Chemistry 2014, 14, 2105–2114.

Maize, K. M.; Wagner, C. R.; Finzel, B. C. Structural characterization of human histidine triad nucleotide-binding protein 2, a member of the histidine triad superfamily. FEBS J 2013, 280, 3389–3398.