

Edo Mwenda, Ph.D.

VIKSINNS HARRIS PADYS MALEN LLP
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Practice Areas: Pharmaceutical-Chemical patent prosecution

Education

The University of Iowa, Iowa City, Ph.D., Organic Chemistry
Macalester College, St. Paul, B.A., Chemistry

Professional Experience

Viksnins Harris Padys Malen LLP
Technology Specialist, April 2018 – present
Prepares and prosecutes United States and international patent for pharmaceutical, chemical and polymer inventions.

The University of Iowa Research Foundation, UIVentures
Graduate Student Intern, Sept. 2017 – Dec. 2017
Conducted a comprehensive market analysis for university faculty inventors to help create new ventures based on their research.
Assisted in drafting executive summary and business plan to facilitate interactions between researchers and investors.

The University of Iowa, Chemistry Department
Graduate Research Assistant, June 2012 – December 2017
Developed a rhodium-catalyzed sequential allylic amination and olefin hydroacylation reactions and successively applied it to the synthesis of seven-membered nitrogen heterocycles compounds.
Regio- and enantioselective rhodium-catalyzed preparation of amine-containing tertiary and quaternary centers & applications in the rapid synthesis of 1,2-diamine compounds.
Successfully redesigned and extended methodology to synthesis of enantiopure α -fluoromethylated allylic amines, recognized as irreversible inhibitors of amino acid decarboxylases.

Publications

Mwenda, E. T.; Nguyen, H. M. Enantioselective Synthesis of 1,2-Diamines Containing Tertiary and Quaternary Centers through Rhodium-Catalyzed DYKAT of Racemic Allylic Trichloroacetimidates. *Org. Lett.* 2017, 19, 4814-4817.

Mwenda, E. T.; Vinyard, M. E.; Nguyen, H. M. Enantioselective Synthesis of α -fluoromethylated Amino Acids (Manuscript in preparation)

Arnold, J. S.; **Mwenda, E. T.**; Nguyen, H. M. Rhodium-Catalyzed Sequential Allylic Amination and Olefin Hydroacylation Reactions: Enantioselective Synthesis of Seven-Membered Nitrogen Heterocycles. *Angew. Chem. Int. Ed.* 2014, 53, 3688-3692. This article was selected as a "HOT PAPER."

Fischer, P. J.; Krohn, K. M.; **Mwenda, E. T.**; Young, V. G., Jr. 2-(Dimethylamino)ethylcyclopentadienyl Group VI Metal Carbonyl Anions and Divalent Tin(IV) Derivatives. *Organometallics*, 2005; 24, 1776-1779.

Fischer, P. J.; Krohn, K. M.; **Mwenda, E. T.**; Young, V. G., Jr. (2-(Dimethylammonium)ethyl)cyclopentadienyltricarbonylmetalates: Group VI Metal Zwitterions. Attenuation of the Brønsted Basicity and Nucleophilicity of Formally Anionic Metal Centers. *Organometallics*; 2005; 24; 5116-5126.