



Ming He, Ph.D.

Associate

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Ming He, Ph.D. prepares, files and prosecutes applications in the chemical and pharmaceutical industries. Ming also conducts due diligence, patent analyses and freedom-to-operate analyses.

Prior to becoming a patent agent, Ming served as a senior process chemist at a pharmaceutical company. He discovered and developed efficient, safe and cost-effective synthetic routes for organic compounds. In addition, Ming developed a manufacturing process from a lab synthesis to GMP production.

He previously worked as a senior research assistant for Unilever, where he identified and isolated bioactive ingredients from traditional Chinese medicinal plants as well as developed efficient chemical assays for screening antibacterial components.

Ming was a postdoctoral fellow in Professor Amos B. Smith's group at University of Pennsylvania, working on the synthesis of complex natural products, e.g., revised structure of Lituarine C and (+)-Neopeltolide. Ming obtained his Ph.D degree in 2008 at University of California, Santa Barbara under supervision of Professor Jeffrey W. Bode. His doctoral research focused on the development of novel methodologies to synthesize heterocyclic molecules via N-heterocyclic carbene (NHC)-catalyzed redox reactions of alpha-functionalized aldehydes.

Education

- Nanjing University (B.S., 1997)
 - Chemistry
- Fudan University (M.S., 2000)
 - Natural Product Chemistry
- University of California, Santa Barbara (Ph.D, 2008)
 - Synthetic Organic Chemistry
- University of Pennsylvania (2011)
 - Postdoctoral Research, Department of Chemistry
 - Total Synthesis of Natural Products,

Services & Industries

- Asia-Pacific Practice
- Intellectual Property
- International Legal Services
- IP Litigation
- Life Sciences & Biotechnology
- Patents

- Temple University, James E. Beasley School of Law (J.D., *cum laude*, 2022)

Admissions

- Pennsylvania
- United States Patent and Trademark Office

Professional Affiliations

- American Chemistry Society
- Sigma Xi
- The Scientific Research Society

Awards & Honors

- *The Best Lawyers in America: Ones to Watch®* for Intellectual Property Law, Litigation – Intellectual Property, Patent Law, 2024-2026
- Roche Bioscience Graduate Excellence Award, University of California, 2007
- John H. Tokuyama Memorial Fellowship, University of California, 2006
- Robert H. DeWolfe Teaching Fellowship, University of California, 2004
- Dong Fang Scholarship, Fudan University, 1999
- Guang Hua Scholarship, Fudan University, 1998
- Student with Initiative, Nanjing University, 1996
- People Scholarship, Nanjing University, 1994-1997

Languages

- Chinese

Success Stories

Ice Miller Represents EVE Energy in a \$3B Joint Venture for Battery Cell Production in the U.S.

Ice Miller is representing EVE Energy Co., Ltd. (EVE), a global lithium battery company, in a joint venture with Accelera by Cummins, Daimler Truck and PACCAR to build a manufacturing plant in the United States, which is expected to have a range of \$2 to \$3 billion in total investment. This strategic joint venture will manufacture battery cells for commercial vehicles to help transition into clean energy.

Ice Miller Business Group partners Sean Kim and Edward Braum represent EVE as external counsel, with Sean as lead counsel responsible for overseeing the structuring and negotiation of the transaction. The deal team also includes Simone Park, Huidi Shu, Cody Laska, Josh Borean, Daniel Corsaro, Safet Metjahic, Ming He, Anthony Aaron, Dale Stackhouse, Grace Dahm, John Pence, and Mike Flint.

The location of the manufacturing plant is to be determined.

Published In

- He, M.; Rommel, M.; Bode, J.W. "Formal Synthesis of (±)-Clausenamide by NHC-Catalyzed γ-Lactam Formation", *Heterocycles*, 2012, 86, 1689-1696.
- He, M.; Beahm, B. J.; Bode, Jeffrey W. "Chiral N-Heterocyclic Carbene Catalysis under Aqueous Conditions: Enantioselective Hetero-Diels-Alder Reactions with *alpha*-Chloroaldehyde Bisulfite Salts", *Org. Lett.*, 2008, 10, 3817-3820.
- He, M.; Bode, J.W. "Enantioselective, NHC-Catalyzed Bicyclo-Lactam Formation from Enals and Unsaturated N-Sulfonyl Ketimines", *J. Am. Chem. Soc.*, 2008, 130, 418-419.
- He, M.; Uc, G. J.; Bode, J.W. "Chiral N-Heterocyclic Carbene Catalyzed, Enantioselective Oxodiene Diels-Alder Reactions with Low Catalyst Loadings", *J. Am. Chem. Soc.*, 2006, 128, 15088-15089.
- He, M.; Struble, J.R.; Bode, J.W. "Highly Enantioselective Azadiene Diels-Alder Reactions Catalyzed by Chiral N-Heterocyclic Carbenes", *J. Am. Chem. Soc.*, 2006, 128, 8418-8420.
- He, M.; Bode, J.W. "Catalytic Synthesis of *beta*-Lactams via Direct Annulations of Enals and N-Sulfonylimines", *Org. Lett.*, 2005, 7, 3131-3134.
- He, M.; Hu, C-Q. "Studies on the Chemical Components of *Clematis Chinesis*", *Acta Pharmaceutica Sinica*, 2001, 36, 278-280.
- He, M.; Hu, C-Q. "Studies on the Chemical Components of *Clematis Chinesis*", *Journal of Chinese Pharmaceutical Sciences*, 2001, 10, 180-182.
- He, M.; Hu, C-Q. "GC-MS Analysis of the Volatile Constituents of Radix Clematidis", *Chinese Traditional and Herbal Drugs*, 1999, 30, 811-812.
- He, M.; Hu, C-Q. "Research Development on Phytoestrogens", *Chinese Traditional Patent Medicine*, 1999, 21, 42-45.

Thought Leadership

January 26, 2024

USPTO Issues Post-Amgen Enablement Guidelines

April 25, 2023

Overlapping Ranges in Anticipation and Obviousness