



Jacqueline J. DeFoe, Ph.D.

Associate

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A research chemist who understands how important intellectual property rights are to inventors, entrepreneurs, and investors, Jacqueline J. DeFoe, Ph.D. assists in prosecuting patents for clients within the chemical sciences industry. Her meticulous understanding of the data behind a new product, ability to draw conclusions, define implications and significance, and present this information to others, affords Dr. DeFoe a marked capacity for work on complex intellectual property matters.

Practices

- Patent Prosecution

Industries

- Chemical Sciences
- Consumer Products
- Materials Science
- Nanotechnology
- Pharmaceutical

Representative Experience

- Water-soluble polymers and films including the polymers
- Pharmaceutical and formulation technologies
- Light-emitting polymers and display devices including the polymers
- Oxygen generation systems
- Beverage purification systems
- Wound care products
- Battery technologies

- Coatings, such as conformal coatings and antimicrobial and lubricious coatings for medical devices
- Ink compositions and correction fluids
- Personal care products
- Synthetic methods
- Ethylene/polar monomer copolymerization
- Organic synthesis of phosphines
- Polymerization catalysts
- Polymer structure characterization
- Tissue adhesion barriers

Background and Credentials

At the Department of Chemistry at The University of Chicago, Dr. DeFoe researched polymerization catalysis, specifically, the development of new catalysts for making new types of functionalized polyolefins. By introducing changes to the molecular structure of the catalyst and analyzing the resulting polymers, she and her team were able to investigate how the catalyst structure influenced the function. The catalyst she developed was unique because it exhibited greater activity and stability to vinyl polar monomers than previously seen.

Dr. DeFoe earned her J.D., *cum laude*, from Northwestern University School of Law and both a Ph.D. and an M.S. in chemistry from The University of Chicago. She received B.S. in chemistry from Marquette University, where she graduated *magna cum laude*.

Education

- Northwestern University School of Law (J.D., *cum laude*)
- The University of Chicago (Ph.D.)
 - Chemistry
- The University of Chicago (M.S.)
 - Chemistry
- Marquette University (B.S., *magna cum laude*)
 - Chemistry

Bar Admissions

- Illinois
- U.S. Patent and Trademark Office

Publications and Presentations

- “pH Effect on the Synthesis, Shear Properties and Homogeneity of Iron-Crosslinked Hyaluronic Acid-Based (feHy) Gels/Adhesion Barrier.” Isayeva, I; Sarkar, S.; Chang, A.; DeFoe, J.; Luu, H.; Vorvolakos, K.; Patwardhan, D.; Whang, J.; Pollack, S. *Journal of biomedical Materials Research; Part B Applied Biomaterials*, 2010, 95B, 9.