



Katie J. Bitting, Ph.D.

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Related Services

Intellectual Property ■ Patent Prosecution, Counseling & Review

Katie Bitting is a patent agent with an extensive background in small-molecule organic chemistry, biochemistry, and molecular biology. Before joining Alston & Bird, Katie was an assistant professor of chemistry at the West Virginia State University, where she taught organic chemistry courses and performed research. Her research focused on methods of C-H functionalization to install alkyne and azide moieties as biorthogonal “click-chemistry” handles. Katie was also a postdoctoral researcher in immunology at the North Carolina State University School of Veterinary Medicine, where she conducted research in translational medicine focused on allergic diseases.

Katie graduated from Sweet Briar College, summa cum laude, with honors degrees in biochemistry and molecular biology. Katie then went on to receive her Ph.D. in chemistry with a certificate in college teaching from Duke University.

Publications & Presentations

Publications

- “Identification of Redundancy Between Human FcεRIβ and MS4A6A Proteins Points Toward Additional Complex Mechanisms for FcεRI trafficking and Signaling,” *Allergy*, 2022.
- “The Exon-Skipping Oligonucleotide, KitStop, Depletes Tissue-Resident Mast Cells In Vivo to Ameliorate Anaphylaxis,” *Frontiers in Immunology*, 2022.
- “Site-Selective Copper-Catalyzed Amination and Azidation of Arenes and Heteroarenes via Deprotonative Zincation,” *Journal of the American Chemical Society*, 2017.
- “Copper-Catalyzed Electrophilic Amination of Heteroaromatic and Aromatic C–H Bonds via tmpZnCl-LiCl Mediated Metalation,” *Organic Syntheses*, 2015.

Professional & Community Engagement

- American Chemical Society (ACS)
- American Association of Immunology (AAI)

Education

- Duke University (Ph.D., 2018)
- Sweet Briar College (B.S., 2013)

Admitted to Practice

- U.S. Patent and Trademark Office