

Sara M. Butterfield, Ph.D.

Patent Agent

Sara Butterfield is a registered patent agent with over a decade of experience handling patent prosecution, opinion work, and patent application drafting and filing for technologies related to chemistry, formulations, materials science, medical devices, mechanical and electrical technologies, and biotechnology.

Sara has a broad research background at the intersection of chemistry and biology. After obtaining a Ph.D. in organic chemistry from University of North Carolina-Chapel Hill, Sara worked as a postdoctoral research assistant at the Skaggs Institute for chemical biology at the Scripps Research Institute. She later moved abroad and worked as a scientist at the Swiss Federal Institute in Lausanne, Switzerland where her research focused on the molecular mechanisms of protein aggregation events involved in Parkinson's disease.

Areas of Scientific Experience

- Peptide chemistry and *de novo* protein design
- Protein folding and protein-ligand interactions
- Physical organic chemistry
- Supramolecular chemistry
- Cell-penetrating peptides and synthetic membrane pores
- Colorimetric and fluorometric assay development
- Lab skills: solid phase peptide synthesis, protein total synthesis and semisynthesis, native chemical ligation, synthetic organic chemistry, one- and two-dimensional NMR, mass spectrometry, chromatography (RP-HPLC, silica gel), and gel electrophoresis

A frequent writer, Sara is co-author of 16 publications, including 12 first author scientific publications and review articles.

Legal Services

- [Patent Prosecution](#)
- [Intellectual Property Strategic Counseling](#)
- [Research Institutions](#)
- [Higher Education](#)

Education and Honors

- Scripps Research Institute
 - NIH Postdoctoral Fellowship
- University of North Carolina-Chapel Hill (Ph.D.)
- Mount Saint Mary's College (B.S., *magna cum laude*)



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Court Admissions

- United States Patent and Trademark Office