

Brandon Conklin, Ph.D.

Patent Agent

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Brandon is a registered patent agent with a background in biochemical engineering who handles prosecution, support and management of domestic and foreign patent applications.

He prepares and prosecutes U.S. and PCT patent applications across chemical, pharmaceutical, antibody, device and software technologies, including drafting, responding to office actions, and conducting examiner interviews. Brandon handles patent prosecution of artificial intelligence (AI) technologies, including machine learning and deep learning, in health care and medical applications. He also instructs and coordinates with associates to manage international patent prosecution matters.

In addition, Brandon conducts Freedom-to-Operate analyses using Derwent Innovation, Derwent SequenceBase, and USPTO/WIPO databases to assess third-party IP risks.

Services

- Intellectual Property
- Patents

Before Fox Rothschild

Before joining us as a patent agent, Brandon was a graduate researcher with Dr. Ki-Bum Lee's Group at Rutgers University, working in the area of nanoparticle-based nonviral gene silencing platforms and using machine learning to predict and mimic cellular behavior. He performed undergraduate research with Dr. Lee's group in the area of organic nanoparticle synthesis, inorganic particle synthesis, drug release and computational modeling.

His experience includes a clinical trials observational internship with the Rutgers Clinical Research Center and an apprenticeship with the Foundation Venture Capital Group.

Bar Admissions

- U.S. Patent & Trademark Office

Education

- Rutgers University (Ph.D., 2025)
 - Chemistry
 - Certificate in Computational Biology
- Rutgers University (M.S., 2020)
 - Chemical and Biochemical Engineering
- Rutgers University (B.S., *magna cum laude*, 2018)
 - Biomedical Engineering and Mathematics

Honors & Awards

- Selected to receive the Rutgers University Department of Chemistry and Chemical Biology's Reid Award, recognizing outstanding accomplishments in doctoral research (2023)

Publications

2025

Advanced Biomaterial Delivery of Hypoxia-Conditioned Extracellular Vesicles (EVs) as a Therapeutic Platform for Traumatic Brain Injury

Advanced Science

2025

Amelioration of Aging Associated Hallmarks in Progeria Syndrome Mice Using a Nanoparticle Based Artificial Transcription Factor

Functional Materials

2025

NIR-Induced Photoswitching Hybrid DNA Nanoconstruct-based Drug Delivery Systems for Spatiotemporal Control of Stem Cell Fate

Small

2024

Probing Nanotopographical-mediated Macrophage Polarization Via Integrated Machine Learning and Combinatorial Biophysical Cue Mapping

ACS Nano

2023

A Nanoparticle-based Artificial Mitochondrial DNA (mtDNA) Transcription Regulator: MitoScript

Nano Letters

2022

Advanced Theragnostics for the Central Nervous System (CNS) and Neurological Disorders Using Functional Inorganic Nanomaterials

Advanced Drug Delivery Reviews

2022

High-Content Screening and Analysis of Stem Cell-Derived Neural Interfaces Using an Integrated Machine Learning and Combinatorial Nanotechnology Approach

Research

2022

Predictive Biophysical Cue Mapping for Cellular Differentiation and Reprogramming Using Combinatorial Nanoarrays

ACS Nano

2022

Nanotechnology-enabled Immunoengineering Approaches to Advanced Therapeutic Applications

Nano Convergence