

Catherine Choi, Ph.D.

Technology Specialist

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EDUCATION

Ph.D., Neuroscience, Tufts University
B.A., Neuroscience, Amherst College

PRACTICE AREAS

Corporate & Investment Diligence
Licensing & Transactions
Patent Opinions
Patent Prosecution
Strategic Counseling
Trade Secrets
Trademarks

TECHNOLOGIES

Chemistry & Materials Science
Industrial Devices
Life Sciences
Medical Devices & Diagnostics

OVERVIEW

Catherine applies her research background in molecular neuroscience to assist clients in patent prosecution.

For dissertation research at Tufts University, Catherine analyzed the subunit composition and interacting proteins of synaptic and extrasynaptic γ -aminobutyric acid type A receptors (GABAARs), which are membrane proteins that mediate inhibitory signaling in the brain. Using biochemical, molecular biology, imaging, and proteomic approaches, she discovered a novel mechanism involved in the assembly and trafficking of GABAARs. This mechanism may be modulated for the treatment of neuropsychiatric and neurological disorders with impaired inhibition.

Prior to graduate school, Catherine worked as a technical research assistant at McLean Hospital, where she employed molecular biology and rodent behavioral assays to examine the region- and cell type-specific role of neuronal inhibition in the modulation of stress susceptibility.

Catherine has co-authored original research articles in peer-reviewed journals such as *Frontiers in Molecular Neuroscience*, *Neuropsychopharmacology*, *Communications Biology*, and *the Journal of Biological Chemistry*.

EXPERIENCE

Honors:

- Ruth L. Kirschstein Predoctoral Individual National Research Service Award, National Institutes of Health (NIH)
- Trainee Professional Development Award, Society for Neuroscience