



Dr. Pai Liu

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Areas of Practice

Intellectual Property | Patent Law | Patent Prosecution

Dr. Pai Liu is a Patent Agent in the Intellectual Property Practice of Smith, Gambrell & Russell, LLP.

Dr. Pai Liu is based in our Atlanta office and has experience assisting legal counsel in managing patent protection and other patent prosecution activities. She has experience in evaluating and developing IP protection strategies. Her experience spans a diverse portfolio, including vaccines, therapeutics, and research tools. Pai also brings experience in marketing IP assets and negotiating IP-related contract of various kinds.

Pai Liu also works as a Licensing Associate at Georgia State University's Office of Technology Transfer & Commercialization. Her work there includes reviewing, researching, and evaluating new discoveries for commercial value, patentability, and technical understanding. Pai earned her Doctorate Degree from Emory University in Neuroscience. During the research for her thesis, she focused on the molecular mechanism underlying coupling Type 2 Diabetes to Alzheimer's disease pathogenesis. Pai also has studied neuroinflammation, aging, and neurodegenerative diseases. She studied neuroscience and behavioral biology during studies culminating in her bachelor's degree at Emory University, where she was awarded the Goizueta Alzheimer's Disease Research Center Scholarship and helped optimize rapid purification and detection of enzymes involved in the onset of Alzheimer's disease.

When not working, Pai enjoys baking, oil painting, and going to the gym.

Admissions

United States Patent Office

Languages

Mandarin

Memberships

Georgia Intellectual Property Alliance (GIPA)
Association of University Technology Managers (AUTM)
Chiefs in Intellectual Property (ChIPs Atlanta)
Science ATL

Publications and Speaking Engagements

["A TrkB cleavage fragment in hippocampus promotes Depressive-Like behavior in mice - ScienceDirect"](#) Brain, Behavior, and Immunity, March 29, 2024

["High-fat diet-induced diabetes couples to Alzheimer's disease through inflammation-activated C/EBP \$\beta\$ /AEP pathway"](#), Molecular Psychiatry, May 11, 2022

["Neuronal C/EBP \$\beta\$ /AEP Pathway Shortening Lifespan via Selective GABAergic Neuronal Degeneration by FOXO Repression"](#), Science Advances, March 30, 2022

["Neuronal ApoE4 Stimulates C/EBP \$\beta\$ activation, Promoting Alzheimer's Disease Pathology in a Mouse Model](#), Progress in Neurobiology, December 24, 2021

["ApoE4 activates C/EBP \$\beta\$ / \$\delta\$ -secretase with 27-hydroxycholesterol, driving the pathogenesis of Alzheimer's disease"](#) Progress in Neurobiology, March 11, 2021

["TrkB receptor cleavage by delta-secretase abolishes its phosphorylation of APP, aggravating Alzheimer's disease"](#), [pathologies](#) Molecular Psychiatry, August 11, 2020

["Delta-secretase \(AEP\) mediates tau-splicing imbalance and accelerates cognitive decline in tauopathies"](#), Journal of Experimental Medicine, October 19, 2018

["Delta-Secretase Phosphorylation by SRPK2 Enhances Its Enzymatic Activity, Provoking Pathogenesis in Alzheimer's Disease"](#), Molecular Cell, August 17, 2017