

Saie Mogre, PhD

PATENT AGENT

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Dr. Saie Mogre assists Choate's life sciences clients by utilizing her background in molecular biology, cancer biology, and translational therapeutics to help with the preparation and prosecution of patent applications, as well as freedom-to-operate and patentability analyses.

Prior to joining Choate, Saie worked as a Technical Advisor at a Boston law firm, where she drafted and prosecuted biotechnology patent applications primarily in the gene editing and antibody therapeutics fields. She also managed domestic and international intellectual property portfolios and conducted landscape analyses to support patent strategy.

Saie received her PhD in Pathobiology from The Pennsylvania State University, where her research focused on the role of the endoplasmic reticulum stress sensor IRE1 in cancer. She subsequently completed a postdoctoral fellowship at Dana-Farber Cancer Institute and Harvard Medical School, where she investigated biomarkers and therapeutic strategies for endometrial cancers. Through her research and professional experience, Saie has developed expertise in gene editing technologies, recombinant protein expression models, translational therapeutics, next-generation sequencing, and three-dimensional cell culture systems.

Focus Areas

Intellectual Property

IP Counseling

Publications and Presentations

- "Somatic mutations in IRE1 regulate keratinocyte migration and survival by differentially activating Rho GTPases," first author, *Journal of Cell Science*, 2025
- "Functional profiling of p53 and RB cell cycle regulatory proficiency suggests mechanism-driven molecular stratification in endometrial carcinoma," co-first author, *Cancer Research Communications*, 2025
- "The ORFIUS complex regulates ORC2 localization at replication origins," co-author, *NAR Cancer*, 2024
- "The unfolded protein response gene Ire1 is required for tissue renewal and normal differentiation in the mouse tongue and esophagus," co-author, *Developmental Biology*, 2022
- "TGF1 regulates HRas-mediated activation of IRE1 through the PERK-RPAP2 axis in keratinocytes," first author, *Molecular Carcinogenesis*, 2022
- "Biomarker potential of vimentin in oral cancers," first author, *Life*, 2022
- "The Endoplasmic Reticulum Stress Sensor IRE1 Regulates the UV DNA Repair Response Through the Control of Intracellular Calcium Homeostasis," co-author, *Journal of Investigative Dermatology*
- "Vimentin regulates differentiation switch via modulation of Keratin 14 levels and their expression together correlates with poor prognosis in oral cancer patients," co-author, *PLoS One*

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Education & Credentials

- The Pennsylvania State University, PhD (2022) *Pathobiology*
- Brandeis University, MS (2014) *Molecular & Cell Biology*
- Padmashree Dr. D. Y. Patil University, BTech (2013) *Biotechnology*

Admissions

- U.S. Patent & Trademark Office