Dvir Reif, PhD

PATENT AGENT

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Dr. Dvir Reif assists Choate's life sciences clients by utilizing his background in biochemistry, molecular biology, and structural biology to support the preparation and prosecution of patent applications, as well as freedom-to-operate and patentability analyses.

Prior to joining Choate, Dvir earned his PhD in Biochemistry and Molecular Cell Biology from Harvard University, where his research focused on elucidating chaperone-mediated folding pathways of essential eukaryotic proteins. His work combined biochemical, biophysical, and computational approaches – including cryo-EM, in vitro translation assays, and predictive modeling – to characterize protein interactions and folding mechanisms. In addition to his doctoral research, Dvir has experience in computational drug discovery, structural biology, and mentoring junior scientists.

Publications and Presentations

- "A ribosome-associating chaperone mediates GTP-driven vectorial folding of nascent eEF1A," co-author, *Nature Communications,* 2025
- "A Zpr1 co-chaperone mediates folding of eukaryotic translation factor 1A via a GTPase cycle," co-first author, *Molecular Cell,* 2023
- "Zinc-finger protein Zpr1 is a bespoke chaperone essential for eEF1A biogenesis," co-first author, *Molecular Cell*, 2023
- "A TRCky TA protein delivery service snubs the UPS," co-author, *Journal of Cell Biology*, 2021
- "Microwave-generated steam decontamination of N95 respirators utilizing universally accessible materials," co-author, *MBio*, 2020
- "Structures of human PRC2 with its cofactors AEBP2 and JARID2," co-author, *Science*, 2018

Education & Credentials

- Harvard University, PhD (2024) *Biochemistry*
- University of California Berkley, BA (2018) *Molecular & Cell Biology*

Admissions

- U.S. Patent & Trademark Office