



NSF ATP-Bio PUBLIC WEBINAR SERIES

Trainee Technical Presentations

Advances in cryoprotective agent (CPA) delivery, optimization, and screening; how these approaches are improving preservation of complex biological systems—from cells to tissues to whole organs

Crossing Biological Barriers: Simple Cryoprotectant Loading for Zebrafish Embryo Preservation



Rasha Al-attar (MGH)

Rasha Al-attar is a postdoctoral fellow at MGH/Harvard's CEMS, studying heart freezing, embryo and organoid cryopreservation, cardiac tissue preservation, and biomedical monitoring devices.

A microfluidic chip for high throughput loading of cryoprotective agents into therapeutic allogeneic immune cells



Natalie Livingston (MGH)

Natalie Livingston is an NIH F32 Postdoctoral Fellow in Mehmet Toner's lab at MGH, with a PhD from Johns Hopkins, now focused on cell manufacturing and preservation.

Improving Organ CPA Perfusion via a Multithermic Strategy



Zonghu Han (UMN)

Zonghu Han, PhD, is a UMN mechanical engineering postdoc studying organ cryopreservation, kidney vitrification, and scalable rewarming, contributing to the first long-term cryopreservation and transplant of a mammalian organ.

[ZOOM LINK](#)

Tuesday, February 3, 2026

3:00 PM – 4:00 PM CT | 4:00 – 5:00 PM ET | 1:00 – 2:00 AM PT

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