



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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