



TEXAS A&M HEALTH
Clinical Science &
Translational Research

Grand Rounds



Jonathon Cummock
MD/PhD Candidate
Texas A&M University
College of Medicine



Megh Patel
MD/PhD Candidate
Texas A&M University
College of Medicine

Next Grand Rounds:
August 5, 2025 – TBA

This event will be recorded
and available online at
cstrinstitute.tamhsc.edu

*CME credit given ONLY for
attendance at live event.*

**"Translational AI for Clinical Imaging in the
Era of Precision Medicine: Segmentation,
Prediction, and Personalization"**

AND

**"Rapid Development of Long-Distance Human
Neural Networks Using Astrocytes"**

**Tuesday, June 3, 2025
12:00–1:00 pm**

Via ZOOM:

<https://tamu.zoom.us/j/97360784118?pwd=AjkoZ0216IO11Mde14Na bHL9R0yUwg.1>

Meeting ID: 973 6078 4118

Passcode: 386811

Dial in: 1 346 248 7799 / 1 888 788 0099 / 1 877 853 5247

OBJECTIVES: Upon completion of this activity, the participant should be able to:
1) Describe the role of AI in stroke imaging - Discuss how artificial intelligence enhances stroke detection through neuroimaging techniques, including denoised non-contrast CT scans, high-resolution Net Water Uptake (NWU) maps, and automatic ischemic lesion segmentation; and 2) evaluate AI-Driven biomarkers for stroke diagnosis and prognosis - Discuss the application of AI-generated NWU maps as a non-invasive tissue clock for predicting ischemic lesion reversibility and treatment response, extending the therapeutic window for acute ischemic stroke interventions; AND 1) Discuss the role of human astrocytes in the development of functional neural networks in organoid-based *in vitro* models of the human brain; and 2) discuss new strategies in generating complex and long-distance models of human neural tracts using functionally-interconnected organoid neural networks.

ACCREDITATION: Texas A&M University College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

DESIGNATION: Texas A&M University College of Medicine designates this live activity for a maximum of 1 AMA PRA Category 1 Credit™. Physicians should claim only credit commensurate with the extent of their participation in the activity.

DISCLOSURE: Jonathon Cummock, MD/PhD candidate, and Megh Patel, MD/PhD candidate, speakers for this educational activity, have no relevant financial relationships to disclose with ineligible companies whose primary business is producing, marketing, selling, re-selling or distributing healthcare products used by or on patients.

The planners for this educational activity have no relevant financial relationship(s) to disclose with ineligible companies whose primary business is producing, marketing, selling- re-selling, or distributing healthcare products used by or on patients.

Physicians claiming CME credit should submit an evaluation online at
<https://med.catalog.instructure.com/courses/cstr-grand-rounds-june-2025-live>

Medical students claiming course credit should complete the evaluation form at
https://tamu.qualtrics.com/jfe/form/SV_efkLgXgUrnxt69U

For further information, email CSTR@tamu.edu