



**Dear colleagues,  
in cooperation with the Presidium of the Slovak Academy of Sciences,  
we would like to invite you to a lecture given by**

## **Amina QUTUB**

**University of Texas, San Antonio**

Co-Director, Center for Precision Medicine

Assistant Director of Strategic Partnerships, MATRIX AI Consortium Director,  
UTSA - UT Health Graduate Group in Biomedical Engineering Burzik Professor  
of Engineering Design

**on the topic of**

### **Health Care & AI: From data to clinical decision-making or Oncology & bioinformatics: predicting treatment outcomes using data**

Identifying patient signatures from molecular data

Wisdom of the computational and clinical crowds to predict response to chemotherapy

Identification of actionable biomarkers

Incorporation of newer AI methods into bioinformatics approaches

**26. 9. 2025 (Friday) at 10:30 a.m.**

**in the Dionýz Blaškovič lecture hall, in the building of the Virology Institute of the  
Biomedical Research Center of the Slovak Academy of Sciences, Dúbravská cesta 9, 845 05  
Bratislava**

## Amina Ann Qutub



Amina Ann Qutub is a biomedical engineer, artificial intelligence researcher, and entrepreneur who develops AI technologies to improve human health. She is a Burzik Foundation-funded Professor of Engineering Design and Associate Professor of Biomedical Engineering at the University of Texas at San Antonio (UTSA). She serves as Co-Director of the Center for Precision Medicine, Assistant Director of Strategic Partnerships and Research Thrust Co-Lead at MATRIX Artificial Intelligence (AI) Consortium, and Director of the UTSA - UT Health Graduate Group in Biomedical Engineering. She is the Co-Founder of PaloBio and Leah, AI-focused biotech startups.

Professor Qutub is a pioneer in methods at the intersection of computer science, neurobiology, and engineering in the field of human health. She leads two projects related to artificial intelligence in biomedicine:

(1) iRemedyACT, a nationwide initiative focused on developing artificial intelligence tools for clinical decision-making to optimize care for trauma patients, and (2) MATCH, an initiative funded by the National Institutes of Health (NIH) focused on providing artificial intelligence tools to biomedical researchers. She also directs the Quantu project, a nationwide study focused on optimizing brain health throughout life by integrating biosensor technology, artificial intelligence, and neurogenesis bioanalysis.

Prof. Qutub is a member of the American Institute for Medical and Biological Engineering (2021), a recipient of the National Academy's Keck Future Initiatives Award (2014), a recipient of The Health Cell Award (2022), and a recipient of the National Science Foundation's CAREER Award (2012). She is a standing member of two National Academy committees on emerging technologies (Transformative Science and Technology for the US Department of Defense Committee and Biotechnology Capabilities and National Security Needs) and a member of the National Academy's committee on emerging technologies (Transformative Science and Technology for the Department of Defense and is a standing member of two National Academy committees on new technologies (Transformative Science and Technology for the Department of Defense and Biotechnology Capabilities and National Security) and a participant in the U.S. Department of State's Speaker Program, nominated through the National Academy of Sciences (2025). Prof. Qutub received her B.S. with honors in chemical engineering from Rice University and her PhD in Bioengineering from the University of California, Berkeley and the University of California, San Francisco, where she was a Whitaker Fellow.

She completed her postdoctoral studies in biomedical engineering at Johns Hopkins University, School of Medicine. She completed her postdoctoral studies in biomedical engineering at Johns Hopkins University School of Medicine.