

DEPARTMENT OF BASIC MEDICAL SCIENCES SEMINAR SERIES

A weekly lecture series covering diverse topics in the biomedical sciences

Seminar Title: Bioelectronics in Orthopaedic, Cardiovascular, Immune and Pelvic Health



Thursday, May 7, 2026

12 p.m. - 1 p.m.

IN-PERSON: College of Medicine—Phoenix

Health Sciences Education Building (HSEB), B302 Classroom

435 N. 5th Street, Phoenix, AZ 85004

ZOOM: <https://arizona.zoom.us/j/83815455002>

Mario Romero-Ortega, PhD, Department Head of Biomedical Engineering, Professor of Biomedical Engineering Courses, Member of the Graduate Faculty Contact, University of Arizona Tucson

CME credit provided by the University of Arizona College of Medicine-Tucson

Learning Objectives

- 1) Advanced neural interfacing technology to improve intuitive control and sensation of robotic limb prosthetics for amputees.
- 2) Implantable wireless NeuroClip miniture devices to reduce blood pressure in spontaneously hypertensive rats.
- 3) The neuromodulation of the distal pelvic nerve branches for the treatment of stress urinary incontinence in the ovine animal model.
- 4) Platinized graphene fiber electrodes for recording nerve activity from the splenic and renal neurovascular plexus, for the decoding of neural activity related to overactive spleen and kidney responses.

Accreditation Statement:

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of The University of Arizona College of Medicine - Tucson and University of Arizona College of Medicine - Phoenix. The University of Arizona College of Medicine -Tucson is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of Arizona College of Medicine - Tucson designates this Live Activity for a maximum of 1.00 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Relevant Financial Relationships Statement(s):

University of Arizona College of Medicine - Tucson Continuing Medical Education adheres to the ACCME's Standards for Integrity and Independence in Accredited Continuing Education. Any individuals in a position to control the content of a CME activity, including faculty, planners, reviewers or others are required to disclose all financial relationships with ineligible entities (commercial interests). The CME office reviewers have nothing to disclose. All relevant financial relationships have been mitigated prior to the commencement of the activity.

Name of individual Individual's role in activity Nature of Relationship(s) / Name of Ineligible Company(s)

Frederic Zenhausern, MBA Activity Director Nothing to disclose 02/25/2025

Liya Yin, MD, FAHA Planning Committee Member Nothing to disclose - 12/04/2025

Mario Romero-Ortega, PhD Faculty Nothing to disclose - 04/28/2026

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