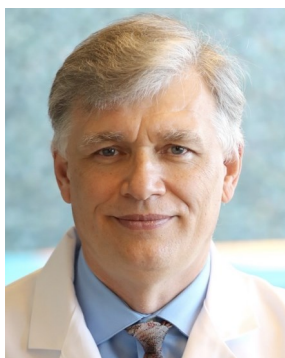


## DEPARTMENT OF BASIC MEDICAL SCIENCES SEMINAR SERIES

*A weekly lecture series covering diverse topics in the biomedical sciences*

**Seminar Title: Bioengineering of Lung Tissue and Nanoparticle Delivery Systems for Treatment of Pulmonary Vascular Diseases**



**Thursday, November 13, 2025**

**12 p.m. - 1 p.m.**

**IN-PERSON:** College of Medicine—Phoenix  
Health Sciences Education Building (HSEB)  
B202 Classroom  
435 N. 5th Street, Phoenix, AZ 85004

**ZOOM:** <https://arizona.zoom.us/j/89850735614>

**Vladimir Kalinichenko, MD, PhD**, Director, Phoenix Children's Research Institute at the University of Arizona College of Medicine – Phoenix

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

### **Learning Objectives**

1. Evaluate the efficacy of bioengineered nanoparticle delivery systems for gene therapies and drug delivery to the lung vasculature in preclinical models of Alveolar Capillary Dysplasia with Misalignment of Pulmonary Veins (ACDMPV), Bronchopulmonary Dysplasia (BPD) and Pediatric Acute Respiratory Distress Syndrome (PARDS).
2. Assess the ability of pluripotent embryonic stem cells (ESC) to simultaneously differentiate into multiple respiratory cell lineages and form an entire lung structure.
3. Demonstrate the advantage of the mouse chimera technology coupled with multi-omics to rapidly evaluate human pathogenic mutations in vivo.

### **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*

*Vladimir Kalinichenko, MD Faculty Nothing to disclose - 11/05/2025*

**BMS Host:**

**Nipavan Chiamvimonvat, MD**



**Contact for additional information:**

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