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## Anesthesiology and Critical Care Research in Progress Seminar 2025-2026

### Anesthesiology and Critical Care Research in Progress Seminar 2025-2026 - 2/12/2026 Computationally-Guided Design of Long-Acting Local Anesthetic Nanoparticles

February 12, 2026

12:00 PM - 1:00 PM

#### Target Audience

This program has been designed for ANESTHESIOLOGY - Critical Care Medicine

#### Series Educational Objectives

After participating in this regularly scheduled series, participants should be able to:

- 1 Discuss updates on patient-oriented research of the Department of Anesthesiology & Critical Care
- 2 Describe the changes in practice suggested by current research
- 3 Discuss the planning and execution of both basic and clinical research activities
- 4 Describe how to utilize translational medical research, to take wet bench applications and apply them in patient setting to enhance patient outcomes

#### Session Educational Objectives

After completing this educational activity, participants should be able to:

- 1 Discuss novel nanoparticle formulations of local anesthetics that extend analgesic duration beyond current liposomal preparations
- 2 Describe how deep learning models can accelerate drug-delivery discovery by predicting compatible drug-excipient pairings
- 2 Describe the translational pipeline from computational screening through preclinical validation for anesthetic nanoparticle development

#### Accreditation

In support of improving patient care, Penn Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

#### Designation of Credit

**Physicians:** Penn Medicine designates this live activity for a maximum of 1.00 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Nurses:** This activity is not approved for nursing contact hours

**Pharmacists:** This activity is not approved for pharmacy contact hours

**PAs:** AAPA accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit*<sup>™</sup> from organizations accredited by ACCME or a recognized state medical society. PAs may receive a maximum of 1.00 Category 1 credits for completing this activity.

#### Acknowledgement of Commercial Support\*

None

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### Disclosure of Relevant Financial Relationships and Unapproved Uses of Products

It is policy at Penn Medicine Office of Continuing Medical and Interprofessional Education for individuals who are in a position to control the content of an educational activity to disclose to the learners all relevant financial relationships (RFRs) that they have with any ineligible company, which is defined as any company whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. Disclosure to learners includes all RFRs for all those in control of content including faculty, planners, moderators, and reviewers.

The intent of this policy is to ensure that Penn CME/CE certified activities promote quality and safety, are effective in improving medical practice, are evidence-based, are based on valid content, and are independent of control from ineligible companies and free of commercial bias. Peer review of all content was conducted for all faculty presentations whose disclosure information was found to contain any financial relationships. Part of the peer review process involved reviewing the content, determining which financial relationships were relevant, and applying appropriate mitigation strategies. In addition, all faculty were instructed to provide balanced, scientifically rigorous and evidence-based presentations.

The staff in the Office of Continuing Medical and Interprofessional Education (CME and IPCE), have disclosed that they have no financial relationships with any ineligible companies. Any peer reviewer who is determined to have a relevant financial relationship must recuse themselves from the peer review process.

Name of individual	Individual's role in activity	Nature of Relationship(s) / Name of Ineligible Company(s)
George Cortina, MD, PhD	Faculty	Nothing to disclose - 01/31/2026
Roderic Eckenhoff, MD	Course Director	Nothing to disclose - 09/12/2025
Thomas Joseph, MD, PhD	Other Planning Committee Member	Nothing to disclose - 08/22/2025
Max Kelz, MD	Other Planning Committee Member	Nothing to disclose - 08/22/2025
Elizabeth White, MD	Other Planning Committee Member	Nothing to disclose - 09/01/2025

Relevant financial relationships are those relationships in which the individual benefits by receiving a salary, royalty, intellectual property rights, consulting fee, honoraria, ownership interest (e.g., stocks, stock options or other ownership interest, excluding diversified mutual funds), or other financial benefit. Financial benefits are usually associated with roles such as employment, management position, independent contractor (including contracted research), consulting, speaking and teaching, membership on advisory committees or review panels, board membership, and other activities from which remuneration is received or expected