Spring MELA Education Day

April 29, 2024

12-1 pm Plenary session

Keynote: "Network Medicine to Optimize Phenotyping in Complex Disease"

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SMC Ballroom

1:15-4:30 pm Workshops

1:15-2:45 pm Round 1

3:00-4:30 pm Round 2

Descriptions and locations below

4:30-5:30 pm Reception and poster session

Workshops:

1:15-2:45 pm Round 1

Neeraja Murali, Philip Dittmar. AI Revolutionizing Medical Education: Innovations, Challenges, and Ethical Considerations.

In this 90-minute session, we will explore the transformative role of artificial intelligence (AI) in medical education. Beginning with an introduction to AI in medicine, we will delve into its history, evolution, and the potential it holds for revolutionizing healthcare education. We will examine current applications of AI in medical schools, showcasing real-world examples and discussing how AI is shaping curriculum development, student assessment, and personalized learning experiences. Moving forward, we will explore how AI technologies such as machine learning and virtual reality can enhance teaching and learning processes, as well as the ethical and regulatory considerations surrounding their implementation. Finally, we will discuss future directions and opportunities for innovation, emphasizing the importance of responsible and ethical AI adoption. Throughout the session, participants will have the opportunity to engage in discussions and Q&A sessions to deepen their understanding of this rapidly evolving field.

Amber L. Beitelshees. Teaching Evidence-Based Pharmacogenetics in Medical Education
Pharmacogenetics represents "low-hanging fruit" in the era of Precision Medicine. Our educational efforts for the next generation of physicians must utilize active learning to guide their ability to practice evidence-based medicine specific to pharmacogenetics. We will review key practice guidelines, resources, test options, and clinical decision support tools that are relevant to pharmacogenetics.

3:00-4:30 pm Round 2

Florence Doo. Revolutionizing Precision Medicine with Generative AI from Medical Education to Patient Care

This workshop will explore the transformative role of Generative AI in medical education, medicine, and patient care, emphasizing its potential to advance Precision Medicine. We will delve into how Generative AI can simulate complex medical conditions, enhance medical training tools, and contribute to personalized patient care. Through interactive demonstrations, case studies, and expert discussions, participants will gain insights into integrating Generative AI technologies into medical practice and education to improve outcomes and foster innovation in healthcare.

Rozalina McCoy. **How to launch a career in academic medicine.**

This interactive workshop will engage participants in discussing opportunities and challenges of starting and progressing in an academic medicine career. The discussion will also incorporate tips on how to engage with professional societies for career growth and advancement.

Afrah Ali, Norman Retener. Simulation Debriefing Essentials for Educators

Simulation-Based Medical Education has become an integral component in teaching medical students. An essential component of SBME is ensuring that learners have directed feedback during Debriefing. Various methods of debriefing exist which are widely taught to educators. This workshop will discuss the methods of debriefing and give the faculty an opportunity to practice these skills.