Workshop 1 - Advanced 3D Cell Models: A Beginner's Workshop

14:00-14:50: Session 1

Introduction to Advanced 3D Cell Models

- Overview of traditional 2D cell culture methods
- Advantages of advanced 3D cell models over 2D culture

Scaffold-Free 3D Cell Models

- Overview of scaffold-free 3D cell culture systems
- Introduction to Celvivo, Clinostar, and Clinoreactor

Demo: CelVivo Clinostar

14:50-15:00: Break

15:00-16:00: Session 2

Scaffold-Based 3D Cell Models using 3D Bioprinting

- Definition and principles of 3D bioprinting
- 3D bioprinting technologies (Extrusion & DLP)
- Applications of 3D Cell Culture & 3D Bioprinting

Demo: CELLINK BIOX (Extrusion) & BIONOVA X (DLP)

16:00-16:10: Break

16:10-17:00: Joint Workshop Session

Panel Discussion

- Expert Insights: Sharing experiences and perspectives
- Exploring Challenges and Opportunities in Advanced 3D Cell Models & Imaging
- Open forum for participants to ask questions and seek guidance

Workshop 2 - 3D Cell Imaging Workshop: Advancements and Applications

14:00-14:50: Session 1

Fundamentals & Considerations with 3D Cell Imaging

- Introduction to 3D cell imaging and workflow
- Considerations visualising organoids and complex 3D structures

AI and machine learning in Imaging

- Role of artificial intelligence in Imaging
- AI and machine learning in 3D cell imaging
- Automation and high content screening

Demo: Exploring automation and AI with Molecular Devices ImageXpress Pico

14:50-15:00: Break

15:00-16:00: Session 2

Advancements in 3D Imaging and Resolution

- Imaging modalities for capturing 3D cellular structure
- Fast and high-resolution imaging technologies
- THUNDER & LIGHTNING

Demo: Fast and high-resolution imaging with Leica MICA

16:00-16:10: Break

16:10-17:00: Joint Workshop Session

Panel Discussion

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- Open forum for participants to ask questions and seek guidance