

# CENTER OF INNOVATION AND E-HEALTH UMF CAROL DAVILA BUCHAREST, ROMANIA

## SEPTEMBER 6-7 2023



## WORKSHOP

Advances in Pancreatic Adenocarcinoma:  
From Translational Research to  
Personalized Therapies

- *Day 1 covers an array of topics, including the disease overview, imaging diagnosis, multidisciplinary collaboration, and the latest treatment breakthroughs.*
- *Day 2 focuses on organoid research and its revolutionary role in modeling disease, individualized medicine, and translational applications.*



WORKSHOP SUPPORTED BY THE EUROPEAN UNION, PROJECT: 101079210  
- TRIP - HORIZON-WIDERA-2021-ACCESS-03.  
TRIP - TRAINING IN TRANSLATIONAL PROTOCOLS FOR MINIMAL INVASIVE  
DIAGNOSIS AND THERAPY IN PANCREATICO-BILIARY CANCERS

REGISTRATION: [TRIP@UMFCD.RO](mailto:TRIP@UMFCD.RO)



**TRIP project, Organoid workshop, Horizon Europe**  
**Date: 06-07 September Location: RO, Bucharest**  
**University of Medicine and Pharmacy Carol Davila Bucharest**  
**Center of Innovation and eHealth (CleH) –Thomas Masaryk 19,**  
**Bucharest**

**Workshop Title: "Advances in Pancreatic Adenocarcinoma: From Translational Research to Personalized Therapies"**

**Summary:** Explore the multidimensional landscape of pancreatic adenocarcinoma in this comprehensive two-day workshop. From essential diagnostic insights to cutting-edge personalized treatment strategies, delve into the complexities of this challenging disease.

**Day 1** covers an array of topics, including the disease overview, imaging diagnosis, multidisciplinary collaboration, and the latest treatment breakthroughs.

**Day 2** focuses on organoid research and its revolutionary role in modeling disease, individualized medicine, and translational applications.

Expert-led sessions, panel discussions, and practical insights make this workshop an invaluable resource for medical professionals seeking to enhance their understanding and approach to pancreatic adenocarcinoma.

**Please register: [trip@umfcd.ro](mailto:trip@umfcd.ro)**

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## Day 1:

### 13:00 am - 13:30 am: Registration and Welcome – Mariana Jinga, Cristian Gheorghe, Adrian Saftoiu

- Welcome participants and provide an overview of the workshop.
- Distribute workshop materials and agendas.

### 13:30 am - 14:00 am: Introduction to Pancreatic Adenocarcinoma – Vasile Balaban, Mariana Jinga

- Provide an overview of pancreatic adenocarcinoma, including its prevalence, risk factors, and stages.
- Discuss the challenges associated with early detection and treatment.

### 14:00 am - 14:30 am: Imaging Diagnosis of Pancreatic Adenocarcinoma - Peter Vilmann

- Explain the importance of imaging techniques in the diagnosis and staging of pancreatic adenocarcinoma.
- Discuss various imaging modalities, such as computed tomography (CT), magnetic resonance imaging (MRI), and positron emission tomography (PET).
- Focus on the role of endoscopic ultrasound (EUS) in visualizing pancreatic tumors and obtaining tissue samples for diagnosis

### 14:30 pm - 15:30 pm: Multidisciplinary Collaboration in Pancreatic Adenocarcinoma – Cristian Gheorghe, Adrian Săftoiu

- **14:30 pm - 15:00 pm Cristian Gheorghe – The multidisciplinary team**
- **15:00 pm - 15:30 pm Stefania Bunduc, Ionut Saizu – Case presentations**

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- Emphasize the importance of a multidisciplinary team approach in managing pancreatic adenocarcinoma.
- Discuss the roles of medical oncologists, surgeons, radiologists, pathologists, and other healthcare professionals.
- Present case studies that illustrate the benefits of collaboration in treatment decision-making.

### 15:30 pm - 16:00 pm: Coffee Break

### 16:00 pm - 17:00 pm: Latest Advances in Pancreatic Adenocarcinoma Treatment – Adina Croitoru

- **16:00 - 16:15: Molecular Profiling in Pancreatic Adenocarcinoma - An Idea Whose Time Has Come! - Irina Cazacu**
- **16:15 - 16:30: Molecular Alterations and Targeted Therapies in Pancreatic Adenocarcinoma - Vlad Croitoru**
- **16:30 - 16:45: Immunotherapy in Pancreatic Adenocarcinoma - Irina Sandra**
- **16:45 - 17:00: Discussions**

- Explore the latest advancements in targeted therapies and immunotherapies for pancreatic adenocarcinoma.
- Discuss ongoing clinical trials and promising research in the field.
- Address the challenges and future directions of personalized treatment approaches.
- Highlight examples of targeted therapies and immunotherapies used in personalized treatment plans.

### 17:00 pm - 17:30 pm: Q&A Session and Wrap-up – Mariana Jinga, Cristian Gheorghe, Adrian Saftoiu

- Allow participants to ask questions and engage in a discussion with the workshop speakers.

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- Summarize the key takeaways from the first day.
- Provide resources and references for further learning.

## Day 2:

### 08:15 am - 08:45 am: Coffee Break

### 08:45 am - 9:00 am: Recap of Day 1 – Mariana Jinga, Cristian Gheorghe, Adrian Saftoiu

- Briefly summarize the topics covered on the previous day.

### 9:00 am - 10:00 am: Pancreatic Cancer Organoids: Modeling Disease and Personalized Medicine - Maria Del Pilar Acedo Nunez, Stephen Pereira

- Introduce the concept of organoids and their role in studying pancreatic adenocarcinoma.
- Discuss the advantages of pancreatic cancer organoids in recapitulating tumor characteristics and testing therapeutic strategies.
- Brief comparison with other available 3D models.
- Highlight examples of how organoids can be utilized in personalized medicine approaches. Mention the role of multicellular organoids (including stromal components).

### 10:00 am - 11:00 am: Generation and Characterization of Pancreatic Cancer Organoids – Marton Fogarasi, Simona Dima

- **10:00 am - 10:45 am: Patient-derived organoids recapitulate disease characteristics and can be used for drug screening in personalized treatment - Marton Fogarasi**
- 10:45 - 11:00: Discussions**

- Explain the process of generating pancreatic cancer organoids, including sample collection, culturing, and characterization.
- Discuss the various techniques used to validate organoid models and assess their fidelity to the original tumor.

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- Present case studies demonstrating the application of pancreatic cancer organoids in drug screening and treatment optimization.

**11:00 am - 11:30 am: Break**

**11:30 am - 12:30 pm: Translational Applications of Pancreatic Cancer Organoids - Cristian Gheorghe, Simona Dima**

**11:30 - 12:00: Genomic profiling in EUS-guided FNA/FNB - Stefania Bunduc**

**12:00 – 12:30: Genomic analysis in PDAC-bulk tissue, liquid biopsy, organoids - Ioana Manea**

- Explore the translational potential of pancreatic cancer organoids in guiding clinical decision-making.
- Discuss how organoids can be used to predict drug response, identify biomarkers, and investigate resistance mechanisms.
- Highlight ongoing research and future directions in the field.

**12:30 pm - 13:30 pm: Lunch Break**

**13:30 pm - 14:30 pm: Genomic Profiling and Precision Medicine - Răzvan Iacob, Andrei Sorop**

**13:30 - 14:00 Transcriptomic profiling to identify potential targets in pancreatic ductal adenocarcinoma for personalized medicine - Andrei Sorop**

**14:00 - 14:30 Mutational landscape of PDAC by targeted NGS on genomic DNA and cfDNA templates from the same patients - Răzvan Iacob**

- Explain the role of genomic profiling in identifying potential targets for personalized treatment.
- Discuss the benefits and limitations of genomic testing in pancreatic adenocarcinoma.

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- Provide insights into the integration of precision medicine into clinical practice.

- Share success stories and survivor testimonials.

**14:30 pm - 16:00 pm: Panel Discussion: Integrating Personalized Approaches and Organoid Research – Simon Ezban Grützmeier, Charlotte Vestrup Rift**

- Bring together experts from various disciplines to discuss the integration of personalized approaches and organoid research in pancreatic adenocarcinoma.

- Engage in a dynamic discussion on the opportunities, challenges, and future directions in this field.

- Encourage audience participation and questions.

**14:30 pm - 15:30 pm: From Cancer to culture: Organoid Crash course - Simon Ezban Grützmeier**

- Explaining the process of tissue collection, processing and culturing (5-10 minutes)
  - Handling the "other cells". fibroblasts, RBCs, CAFs and benign cells
- Growth Medium and BME hydrogel considerations (5 minutes)
- Importance of validation: different validation techniques (functional markers, histology, genotyping) (5-10 minutes)
- Success rates: What to expect
- Drug screening of organoids (5-10 minutes)
- Advanced organoid models - our experiences with CAF/Organoid co-cultures (10-15 minutes)
- Future perspectives and Current challenges in organoid culturing and clinical applications (5 minutes)

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### Short session

Practical consideration when setting up organoid culturing facilities (5-10 minutes)

- Necessary equipment
- Access patient material
- Reagents
- Time and staff allocation
- Brief Budget estimation
- Discussion

### 15:30 - 16:00 Potential online talk/perspective - Charlotte Vestrup Rift

- Histopathology as a validation tool of organoids

### 16:00 pm - 17:00 pm: Patient Advocacy and Support - Maria Del Pilar Acedo Nunez

- **Discuss the importance of patient advocacy in raising awareness (UEG Public Affairs Committee) and improving outcomes for pancreatic adenocarcinoma.**

- **Highlight support resources (Pancreatic Cancer UK, etc.), patient organizations, and clinical trials databases.**

### 17:00 pm - 17:30 pm: Workshop Summary and Closing Remarks – Mariana Jinga, Cristian Gheorghe, Adrian Săftoiu

- Summarize the key takeaways from the workshop.
- Provide a forum for participants to share their reflections and insights.
- Conclude the workshop by expressing gratitude to the speakers and participants.