### 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** 



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 (CIeH) –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

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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.

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- 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:

08:45 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 – 1230: 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)
  - $\odot$  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.

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