Pathology of the Exocrine Pancreas - of men and mice
A 3-day "meet the expert" International Course
January 21-23, 2027

Organizers: CNIO, ALIPANC, CIBERONC
with the participation of the French Research Network Against Pancreatic Adenocarcinoma (FRAP), German DEFEAT-PDAC Consortium, and the Norwegian Group on Pancreas Cancer Research

Venue: **CNIO Auditorium, Madrid, Spain**

Thursday 21 - am

11:00 Welcome and presentation of the course and participants (N. Malats, F. X. Real)
The burden and epidemiology of pancreatic disease (N. Malats)
A primer on pancreatic development (M. Kalisz, CNIO)
Anatomy and histology: human specimen handling and reporting (C. Verbeke)
The pancreas in other species used in research: mice, rats, hamsters, pigs (K. Steiger)

13:00-14:30 Lunch

Thursday 21 - pm

Acute and chronic pancreatitis: human and role of pathology (C. Verbeke)
Mouse models of acute and chronic pancreatitis (K. Steiger)
Fatty pancreas: human and mouse (C. Verbeke, F. X. Real)
Coffee break
Bring your own problem

Friday 22 - am

Precursor lesions in humans (J. Cros) and mouse models (K. Steiger)
PDAC, its variants, and differential diagnoses (J. Cros)
Molecular genetics of PDAC (J. Cros)
Post-neoadjuvant PDAC pathology (C. Verbeke)
Mouse models of PDAC and other exocrine tumors (other species) (K. Steiger)
Tumor heterogeneity in PDAC (TBD)
The impact of KRAS inhibitors on PDAC (TBD)
Discussion

13:15-14:30 Lunch

Friday 22 - pm

Neuroendocrine/acinar/rare neoplasms: classification, subtypes, heterogeneity, risk stratification (J. Cros)
Models of neuroendocrine tumors (mouse models and organoids) (J. Cros)
Intraductal neoplasms and other mucinous lesions (J. Cros and/or C. Verbeke)
Coffee break
Case discussion and poll
Bring your own problem

Saturday 23 - am

Do and don't in pancreatic pathology analysis, including pitfalls when using public datasets for PDAC (J. Cros)
What AI can do for you for pancreatic lesions (J. Cros)
PDX/organoids from exocrine and endocrine tumors (F. X. Real, J. Cros)
Coffee break
Novel technologies: spatial omics (J. Martínez de Villarreal)
AI-based image analysis: tools, methods, challenges (J. Cros, S. Sabroso, K. Steiger)
3D tissue reconstruction (A. Muñoz)

Bring your own problem session - Discussion

Concluding remarks - Farewell (N. Malats, F. X. Real)

Main Faculty



Caroline Verbeke - Oslo University Hospital, Oslo, Norway

Professor of Pathology at the University of Oslo and Oslo University Hospital. She has more than 25 years of experience in pancreatic pathology and is actively involved at a national and international level in the development of diagnostic data sets and guidelines for the reporting of pancreatic cancer. She is particularly interested in tumour heterogeneity and the characterisation of residual pancreatic cancer following neoadjuvant treatment.



Jerôme Cros - Hôpital Beaujon, Paris, France

Professsor of Pathology at Hôpital Beaujoun, Paris, a center specialized in the treatment of pancreatic diseases. Prof. Cros is an expert in pancreatic cancer pathology and has a broad background in molecular genetics of this tumor. He has published recently several high-profile papers on the topic and is involved in the use of artificial intelligence tools to improve pancreatic disease diagnostics.



Katja Steiger - Technical University Munich, Germany

Professsor of Pathology at the Technical University of Munich. She leads a team of several pathologists focused on the analysis of pancreatic tumors from mice and other species, most notably pigs. She has participated in multiple consortia using genetic mouse models and has published extensively on veterinary pancreatic pathology.

Other Faculty
- Irene Felipe, CNIO and CIBERONC
- Mark Kalisz, CIBERONC and CNIO
- Núria Malats, CNIO and CIBERONC
- Jaime Martínez de Villarreal, CNIO and CIBERONC
- Arrate Muñoz, Universidad Carlos III
- Francisco X. Real, CNIO and CIBERONC
- Sergio Sabroso, CNIO and CIBERONC

Registration: 350 euros*
* Reduced fee for CNIO researchers and CIBERONC members.
* The French Research Network Against Pancreatic Adenocarcinoma (FRAP), German DEFEAT-PDAC Consortium, and the Norwegian Group on Pancreas Cancer Research offer a few sponsored registrations. Please, contact your team leaders.

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DEFEAT PDAC
decoding and targeting the pancreatic cancer ecosystem

NORWEGIAN CANCER SOCIETY
National Group of Expertise for Research on Pancreatic Cancer