Pancreatic Cancer Unit

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What we have gained so far

Busy clinical interdisciplinary unit

Weekly Tumorboard with 500 case presentations / year

60 – 80 major pancreatic resections / year

Hundreds of chemotherapy applications, endoscopic interventions, staging and follow up imaging procedures, histopathological work-up,...

Comprehensive database (RDA)

with more than 1400 patients with pancreatic malignancies operated over the last 23 years

Increasing RDA data about chemotherapy and radiotherapy over the past few years Initiation and participation in national network – Task Force Pankreas

COMPREHENSIVE CANCER CENTER VIENNA Pancreatic Cancer Unit (CCC-PCU)



Translational research projects

COMPREHENSIVE CANCER CENTER VIENNA

Identification of prognostic and predictive biomarkers for pancreatic cancer patients

Collaboration between IKF, Surgery, and Pathology dept. (P.Martinelli, M.Schindl, K. Sahora, K. Brendel)

Retrospective

~200 resected tumors (2010-2015)



FFPE clinical data follow up

PROGNOSTIC BIOMARKERS

~80 primarily non-resectable tumors Patients treated with neoadjuvant CT



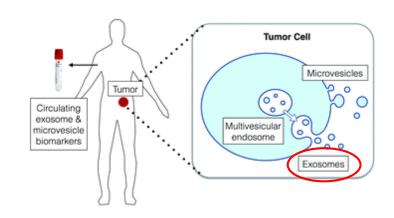


Resection specimen

PREDICTIVE BIOMARKERS

Prospective/discovery

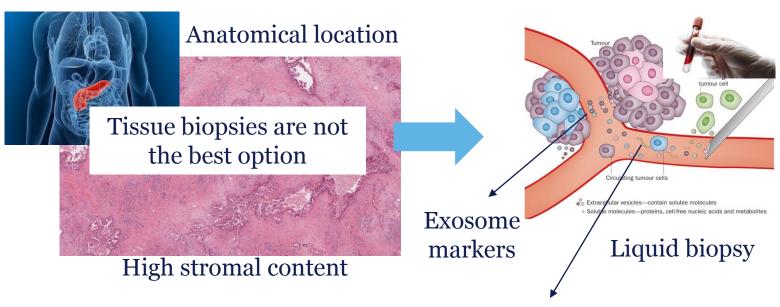
ABCSG-Po2 phase II trial FOLFIRINOX vs FOLFIRINOX+CRT



Exosome-based

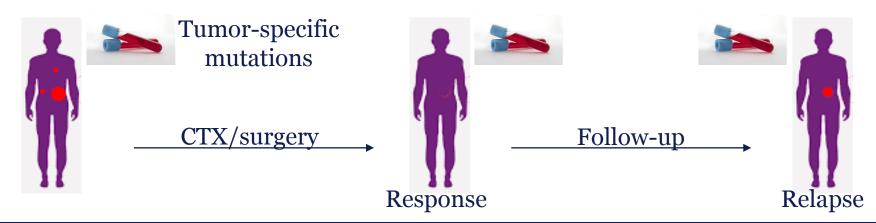
PREDICTIVE BIOMARKERS

Use of liquid biopsies for pancreatic cancer

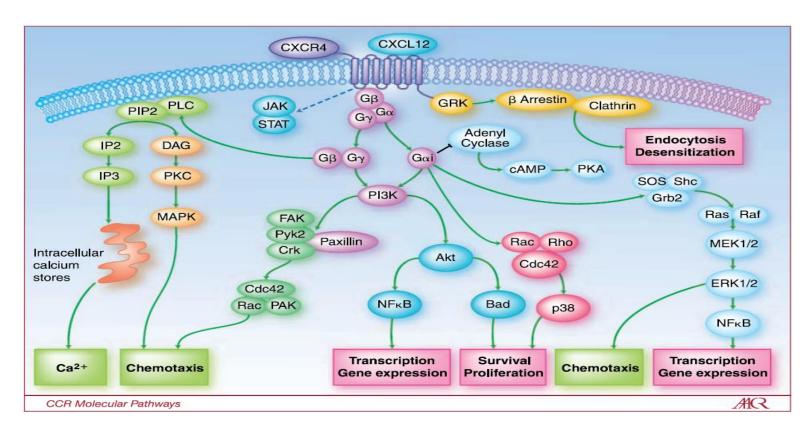


Circulating cell-free tumor DNA (ctDNA)

Collaboration between KIM1/Oncology, and Pathology dept. (G.Prager, M.Kieler, B.Streubel)



CXCR4 imaging in pancreatic cancer



Teicher et al., CCR 2010

COMPREHENSIVE CANCER CENTER VIENNA

CXCR4 imaging in pancreatic cancer

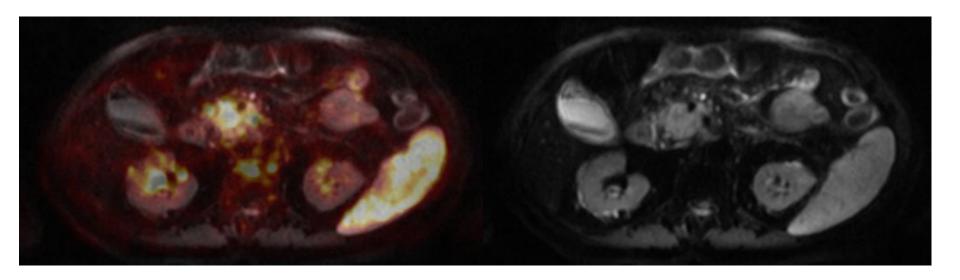
- Mobilization and recruitment of proangiogenic cells (endothelial and smooth muscle precursor cells)
- Supporting neoangiogenetic niches and revascularization of tumor growth
- CXCR4 expression prognostic for: OS, Response to CTX

Study design:

- 42 Patients with resectable PDAC → [68Ga] Pentixafor PET/MRI before resection
 - Endpoints: DFS, OS
- 66 Patients prior to 1st-line CTX → [68Ga] Pentixafor PET/MRI before therapy
 - Endpoints: PFS, OS

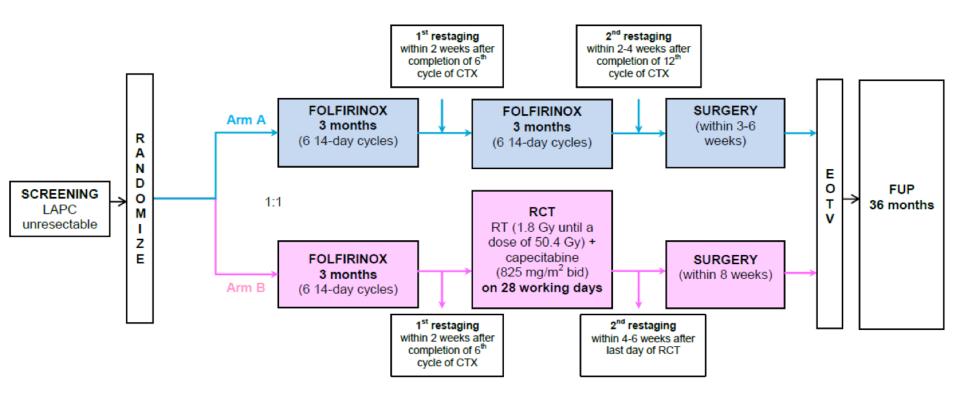
Teicher et al., CCR 2010

CXCR4 imaging in pancreatic cancer



ABCSG-Po2

FOLFIRINOX alone versus FOLFIRINOX+Radiochemotherapy in patients with locally advanced, primarily inoperable pancreatic cancer



COMPREHENSIVE CANCER CENTER VIENNA

COMPREHENSIVE CANCER CENTER VIENNA Pancreatic Cancer Unit (CCC-PCU)



Vision

Leading Comprehensive Clinical Unit

Clinical applied studies

Intensified collaboration with translational research

Comprehensive, up to date interdisciplinary database



Support

Tumorboard administration (ok)

Human resources for database and clinical applied study organization

Infrastructure for clinical and translational studies: office, assessment room

Blood and tissue handling and storage

Promotional initiatives

Funding (charity concept?)