



EP PerMed

European Partnership
for **Personalised Medicine**

pRCC-TREAT

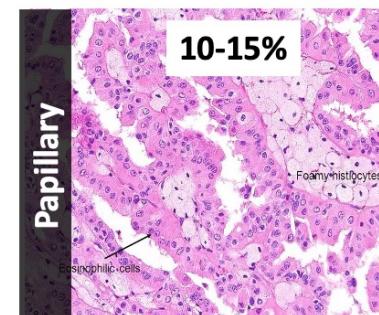
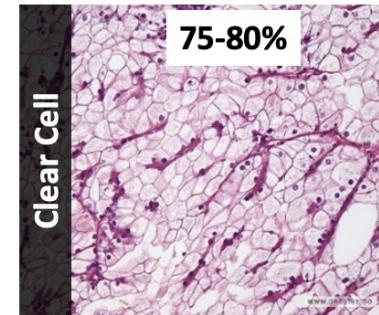
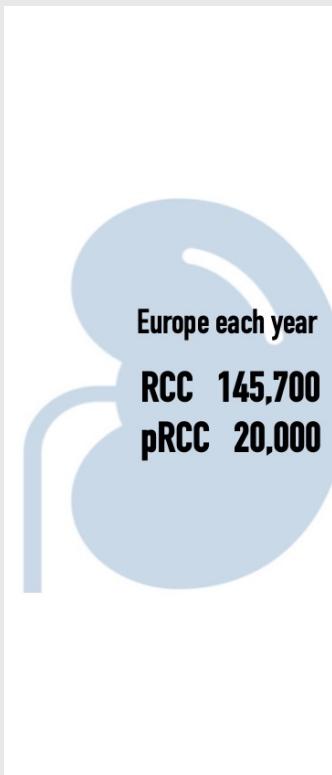
Molecular-based stratification of metastatic papillary
renal cell carcinoma to personalize treatment strategies

January 20th 2026, EP PerMed JTC2025 Kickoff Meeting, online

Cristina Rodriguez-Antona, Consejo Superior de Investigaciones Científicas (Spain), Coordinator

Clinical challenge

- **Papillary renal cell carcinoma (pRCC)** is 10-15% of RCC cases
- **Key problem:** Metastatic pRCC treated with *one-size-fits-all* approach
- Current treatments **lack biological rationale** (borrowed from ccRCC)
- **Result: variable, suboptimal outcomes in patients**

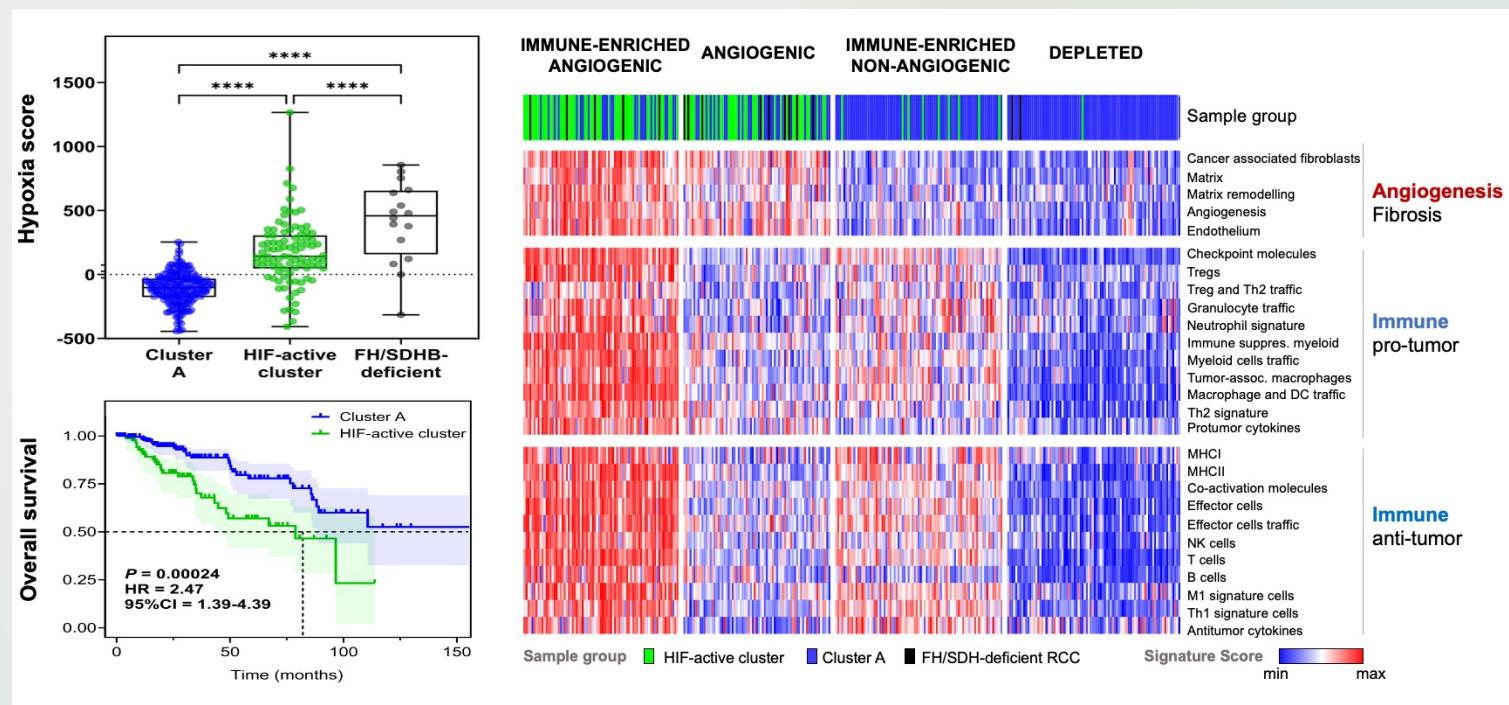


- **Clinic**
ccRCC-centric therapies
Antiangiogenic drugs and immunotherapy
- **Molecular**
VHL mutation plus *PBRM1, SETD2, BAP1...*
Pseudohypoxia, epigenetic changes
- **Clinic**
Understudied disease
ccRCC-based drugs with suboptimal outcomes
- **Molecular**
Diverse: *MET, CDKN2A, SETD2, SMARCB1 ...*
Largely heterogenous

Not All pRCC Are the Same

Our preliminary data

- "HIF-active" pRCC subgroup (30% of cases)
- Key molecular features
- Clinical significance: more **aggressive**, but potentially specific treatment-response



de Nicolás *et al.* (please, do not post)

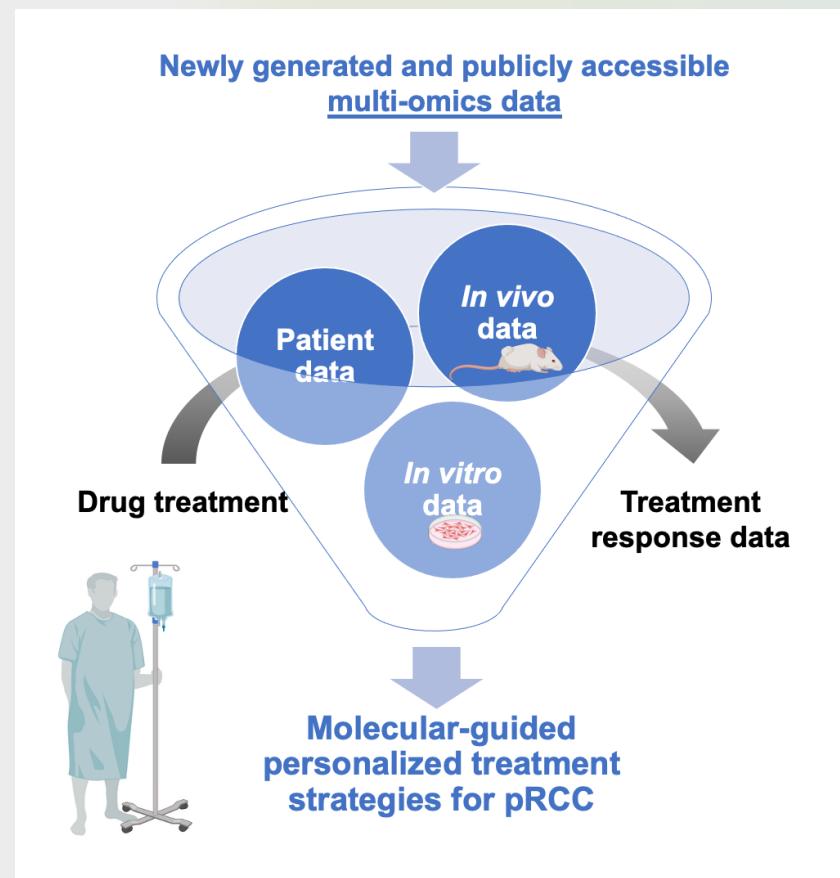
Project Vision & Objectives

Overall goal

Transform care for metastatic pRCC patients by **molecular-guided treatment selection**

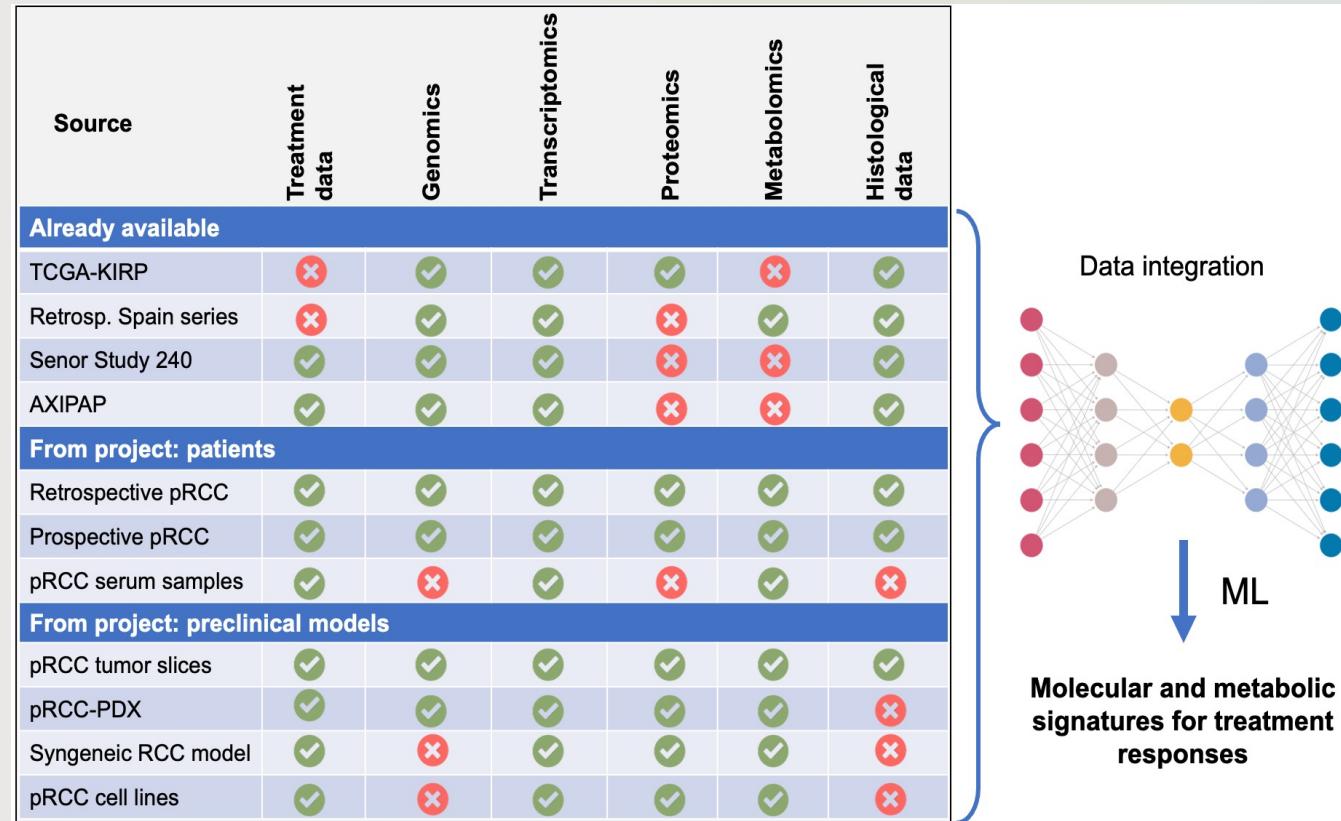
Objectives

1. World's largest metastatic pRCC database
2. Multi-omic signatures for drug response prediction
3. Clinical implementation strategy



The pRCC-TREAT Strategy

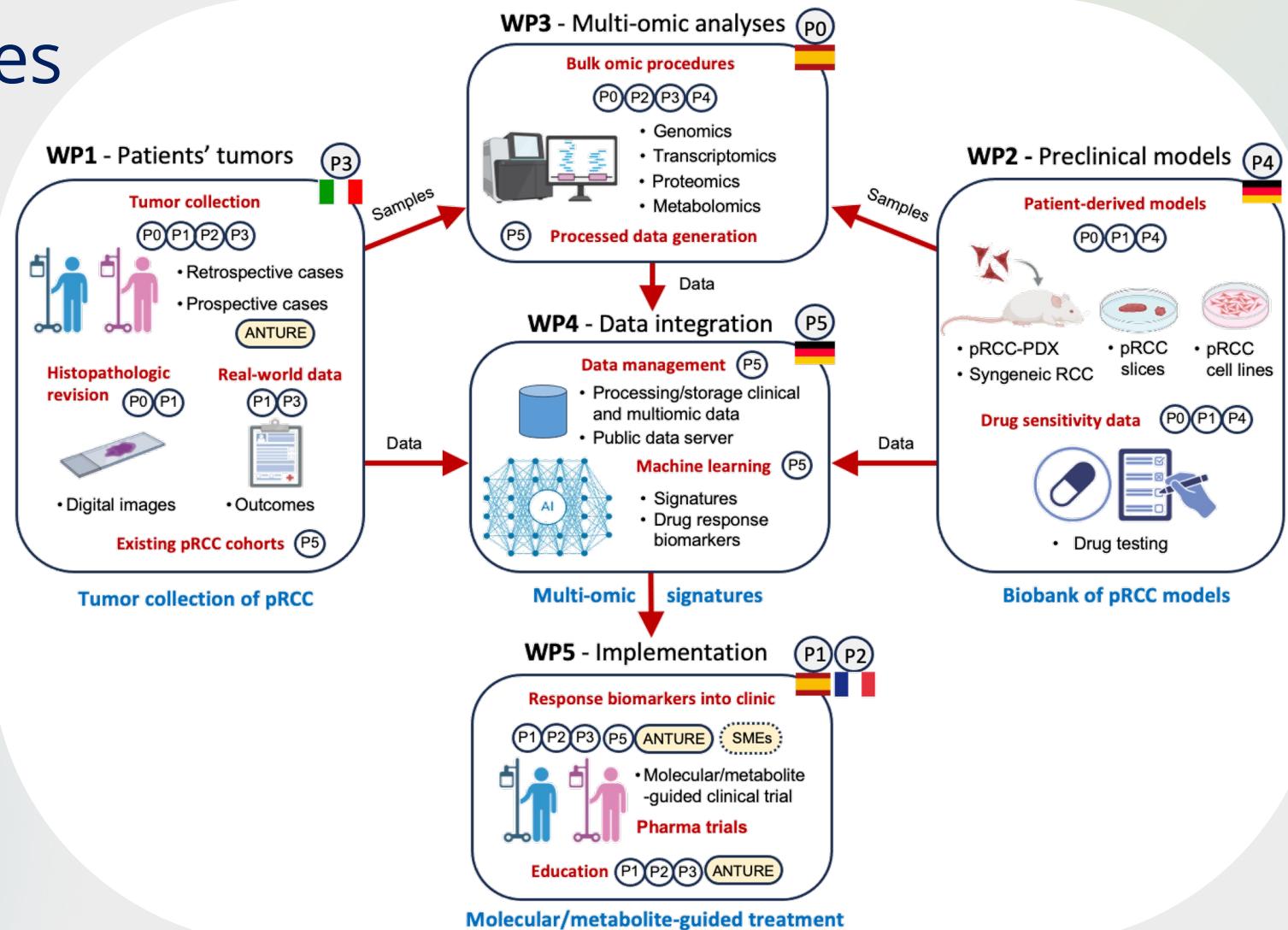
- Multi-omic integration approach (genomics, transcriptomics, proteomics, metabolomics)
- Real-world patient data & preclinical models
- Machine learning for signature discovery



Work Packages

Five WP across Europe.

- WP1: patient tumor samples and clinical data
- WP2: drug testing data from laboratory models
- WP3: molecular multi-omic analyses
- WP4: ML to identify drug response patterns and biomarkers
- WP5: implementation through molecular-guided clinical trial and education



Consortium Strengths

6 partners across 4 countries with **complementary expertise**. Integrating **patient associations** and SME and pharmaceutical industry

P1 - H12O de Velasco

CLINICAL PARTNER

- Co-Leader WP5 clinical implementation
- Samples & data: 65 cases
- Preclinical: PDX-RCC platform
- Biomarker-guided clinical trial with GUARD network

P2 - IGBMC Malouf

CLINICAL PARTNER

- Co-Leader WP5 clinical implementation
- Samples & data: 100 cases
- Genomics and transcriptomics France
- Biomarker-guided clinical trial with CARARE network



P0 - CSIC Rodriguez-Antona

MOLECULAR HUB

- Coordinator and leader WP3 multi-omic analyses
- Genomics and transcriptomics in Spain
- Preclinical: Cell lines & syngeneic models

P3 - IRCCS Procopio

CLINICAL PARTNER

- Leader WP1 Real-world evidence and patient engagement (ANTURE)
- Samples & data: 40 cases
- Genomics and transcriptomics Italy
- Biomarker-guided clinical trial with MeetURO and FICOG network

P4 - Bielefeld University Bechmann

MOLECULAR HUB

- Leader WP2 of Preclinical pRCC models
- Centralized proteomics and metabolomics analyses
- Preclinical: Tumor slices drug treatment, cell lines

P5 - Heidelberg University Herrmann

COMPUTATIONAL HUB

- Leader WP4 data integration
- Bioinformatics: QC, harmonization and central data repository
- Machine Learning for biomarker discovery
- Public database creation

Expected Impact & Next Steps



- ▶ ~4,200 metastatic pRCC patients/year in Europe
- ▶ Creating open-access database for research community
- ▶ Biomarker-guided clinical trial design
- ▶ Diagnostic kit design and commercialization
- ▶ Methodology potentially applicable to other rare cancers

The Value of Patient Involvement



In pRCC-TREAT, patients are not only participants—they are partners shaping the future of personalized therapy



www.anture.it
Active Project Consortium Partner

Patient Partnership

- Review of informed consent documents to ensure clarity, readability, and a patient-centred approach.
- Active involvement of patients and caregivers in a dedicated working group participating in project meetings.
- Developing tools to capture QoL, ADRs, and other PROs.

Dissemination

- Design and support dissemination of multilingual materials from the patient perspective.
- Organize patient-centered events
- Support patient engagement and adherence in biomarker-guided trials, integrating their perspective and raising awareness of research opportunities



www.ikcc.org → IKCC endorses this project and supports its dissemination

Makes a Difference: Integrating the **patient perspective** enhances **clarity, trust, participation, and the quality of data**.
Supports trial design, inclusivity, and clinical relevance.

Precision medicine is only real when patients help build it

Who We Are: ANTURE and IKCC



Active Project Consortium Partner

National Kidney Tumor Association, a non-profit **organization founded by patients affected by this disease.**

Founded on **2020**, we are a **point of reference** providing information on how to best **face the disease, guiding patients and advising them** through a path of knowledge toward the best diagnosis and treatment centers in Italy. We do not aim, nor should we, replace the advice of medical professionals.

Email: associazione@anture.it

WhatsApp: +39 347 191 4206

Website: www.anture.it



Endorsement

Global **collaboration of patient organizations** that empowers and represents the kidney cancer community through advocacy, awareness, information and research.

Initiated in **2009**, we are **improving research, treatment, care and survivorship** through evidence-based education, awareness and advocacy programs that respond to the needs of people affected by kidney cancer.

Email: info@ikcc.org

Tel: +44 (0) 7973 777 202

Website: www.ikcc.org

Thank You