



INTERNATIONAL PEDIATRIC RENAL TUMOUR BIOLOGY CONFERENCE

MARSEILLE / FRANCE
SEPTEMBER 22-24, 2021



Local host/organizer: Arnauld Verschuur, Marseille

Scientific committee: Sam Behjati, Jesper Brok, Jarno Drost, Conrad Fernandez, James Geller, Manfred Gessler, Vicky Huff, Elizabeth Mullen, Daniela Perotti

PROGRAM *(topics covered by invited speakers and selected from abstracts)*

Pre-meeting: Biology of renal tumors for clinicians

Pre-meeting for clinicians to introduce them to molecular genetics (explain techniques and their pitfalls or limitations; biobanking needs)

Advancing diagnosis and treatment of renal tumors - why work on Wilms tumor

History of Wilms tumor research, Harmonica to link transatlantic RTSG/COG efforts, statement by patient advocacy groups

Keynote: Molecular pathways guiding normal kidney development

Molecular and cellular basis of nephrogenesis and its detour to oncogenesis (Nils Lindström, USC)

Molecular basis of Wilms tumor

Novel driver candidates, mutation screening, tumor evolution, tumor heterogeneity, nephrogenic rests, predisposition syndromes
Drivers of tumor initiation and evolution, nephrogenic rests (Sam Behjati, Wellcome Sanger Centre, UK)

Patterns and diagnostics

Results from 1q, LOH and TP53 screening, methylation analysis, miRNA expression, liquid biopsy: mutation & CNV screening

Models for functional understanding and drug testing

Cell lines, 3D cultures, PDX, mouse models, single cell analyses, interface with developmental pathways, drug screening

Non-Wilms tumors

CMN, CCSK, MRTK, RCC and others

Clinical/Translational aspects

Familial and bilateral tumors, relapse, new drugs, checkpoints in renal tumors, epidemiology

Further topics to consider / upcoming research options

New developments from submitted abstracts

Final session : round table "The future of renal tumors, how do we move forward"

Clinicians, biologists and patient advocacy groups

