

Scientific program

Monday 25th October 2021

Session 1 : Chemical biology for cancer therapy

10:00 – 10:45 **Raphaël Rodriguez** - Institut Curie, Paris, France

“Reprogramming the reactivity of iron in cancer”

10:45 – 11:10 **Thierry Virolle** - Institut de Biologie Valrose, Nice, France

« Targeting glioblastoma stem cell plasticity: toward an innovative and efficient anti-cancer stem cell therapy »

11:10 – 11:35 **Meliné Simsir** – Institut de pharmacologie moléculaire et cellulaire and INRIA, Sophia Antipolis, France

“ On the drug export mechanism by efflux pump Patched”

11:35 – 11:45 **Canceropole PACA**

11:45 – 11:55 **Société Française du Cancer**

12:00 – 13 :30 **Lunch**

Session 2 : Personalized and translational medicine

13:30 – 14:15 **Alfonso Valencia** – Supercomputing Center, Barcelona, Spain

“Molecular basis of Disease comorbidities ”

14:15 – 15:00 **Florian Markowetz**– University of Cambridge, Cambridge, UK

“ A pan-cancer compendium of chromosomal instability”

15:00 – 15:20 **Coffee break**

Session 3 : Mathematical models of tumor growth

15:20 – 16:05 **Dirk Drasdo** – INRIA, Paris, France

“Quantitative single-cell-based modeling reveals predictable response of growing tumor spheroids on external mechanical stress”

16:05 – 16:30 **Kevin Atsou** – INRIA, Sophia Antipolis & LJAD, Nice, France

“A size and space structured model for tumors and immune cell interactions”

16:30 – 16:55 **Sébastien Benzekry** – INRIA and CRCM (Inserm), Marseille, France

“Quantitative modeling of metastasis : cancer at the organism scale »



Tuesday 26th October 2021

Session 4 : Network and systems biology of cancer

9:15 - 10:00 **Noël Malod-Dognin** - Supercomputing Center, Barcelona, Spain

“Towards a data-integrated cell”

10:00 – 10:45 **Anaïs Baudot** – Marseille Medical Genetics, Marseille, France

« Mining and modeling networks to study diseases »

10:45 – 11 :00 **Coffee break**

Session 5 : Response to cancer treatment

11:00 – 11:45 **Jean Clairambault** – INRIA, Paris, France

« A modeling view on drug resistance in cancer, reversible or not, and how to circumvent it »

11:45 – 12:10 **Jérémie Roux** – IRCAN, Nice, France & **Madalena Chaves** - INRIA, Sophia Antipolis, France

“Modeling cell response heterogeneity to cancer treatment”

12:10 – 12:35 **Giles Bernot & Jean-Paul Comet** – I3S, Sophia Antipolis, France

“Towards a qualitative understanding of Cancer metabolism”

12:35 – 14:00 **Lunch**

Session 6 : Industrial transfer: local success stories

14:00 – 14:25 **Frédéric Dayan** – ExactCure, Nice, France

14:25 – 14:50 **Rachid Benhida** – Yukin Therapeutics, Nice, France
