

Cellular Biology of Cancer

Valérie Lallemand-Breitenbach & Hugues de Thé

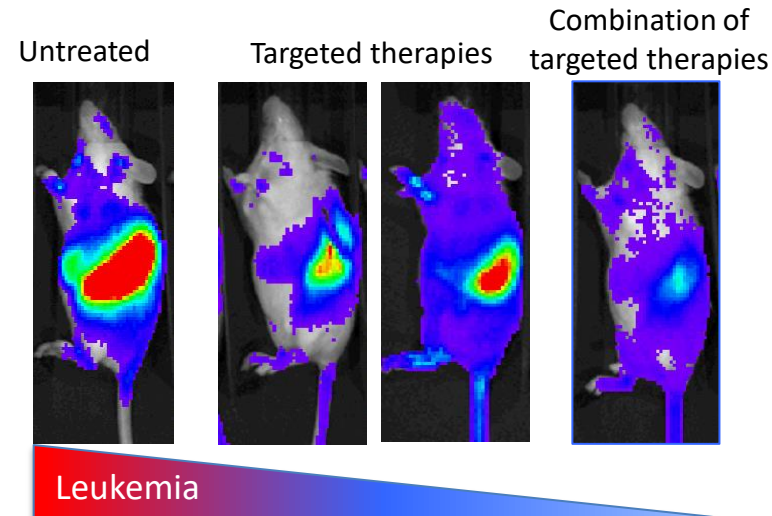
Goal:

- Transformation process and main biological functions affected in cancer
- How cancer research meets basic cell biology
- How do we search for molecular key factors of cancer development and therapies

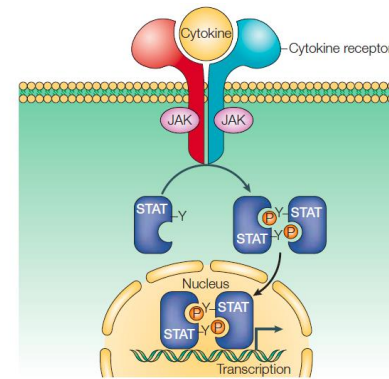
Other modules:

- Somatic Genetics of cancer – J.SOULIER & R.ITZYKSON
- Molecular genetics of hereditary predisposition to cancer - C. Houdayer & D. Stoppa-Lyonnet
- Normal and pathological intracellular signalisation - J. Ghysdael

= Complementary and NOT redundant



PLANNING



Normal tissues & Tumors

1. Signalization and transcription

Jacques Ghysdael (Curie)

2. Apoptosis et Senescence

Eric Solary (IGR)

Eric Gilson (Sophia Antipolis, Nice)

3. Stem cell and differentiation

William Vainchenker (IGR)

Thomas Mercher (Necker)

Richard Iggo (Bergonié, Bordeaux)

4. Stress & metabolism in cancers

Alice Carrier (Paoli Calmette, Marseille)

5. Tumour angiogenesis and metastasis

Stéphane Germain (Collège de France)

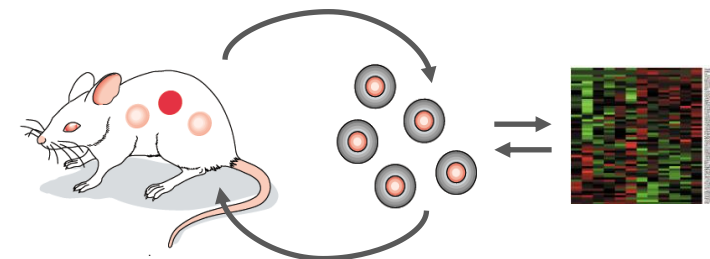
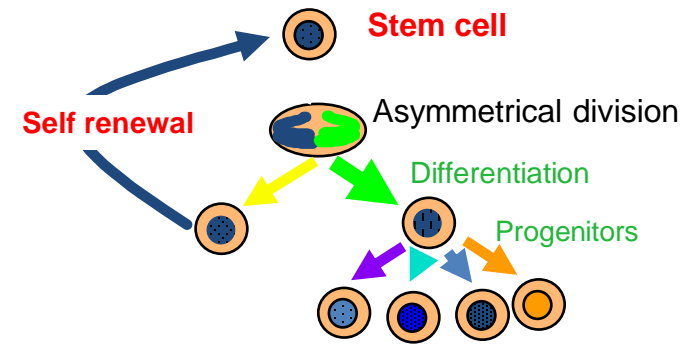
6. Cellular and animal models

Hugues de Thé (College de France - Saint Louis)

7. Computational biology

Aurélien de Reyniès (Ligue Nationale Contre le Cancer)

Leaders in the field across France



Bibliography session

Interactive course – Valerie Lallemand-Breitenbach (Collège de France - St-Louis): 5h

Goal: 10 years of research: contradictions/models with 10 papers

Exam: Paper analysis = ANALYZE and/or CONCLUDE

you must have understood the notions developed during the week

25 Motivated students for interactive courses

+ coherent cancer modules

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basic knowledge and methods for future PhD

November 23 to 27 - Saint Louis hospital campus, Paris 10