

# Somatic Genetics of Cancer

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**Effectives:** 40

**Language:** English

**Prerequisites:**

None specific

**Where?**

Saint-Louis Research Institute

**When?**

12 16 December

**Evaluation:**

Final exam on article

**Questions:**

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**Number ECTS:** 3

**Total numbers of hours:**  
**29h**

**Teaching format:**

10 morning lectures (15h)

4 afternoon sessions on  
articles (12h)

final exam (2h)

## Teaching objectives

- Discover the current challenges in cancer biology with an emphasis on somatic genetics as a research topic and genetics as a tool (single-cell technologies, unbiased genetic screens).
- Introduce several tumor models (leukemia, melanoma, sarcoma...).
- Understand the strength and limitations of experimental systems in cancer biology (emphasis on *in vivo* models).
- Strengthen critical reading of original articles.

## Teaching outline

- Ten morning lectures (1.5h each) by leaders in the field at various career stages.
- Afternoons dedicated to work on 4-6 recent high-level articles in subgroups, to identify key questions, new experimental approaches, with an emphasis on critical interpretation.