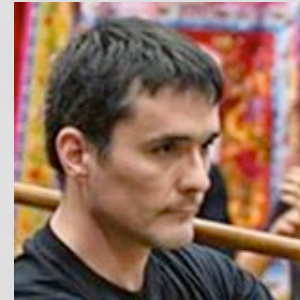




Anne VANET



Fabien FAUCHEREAU

# GENOMIC ANALYSES OF CANCERS

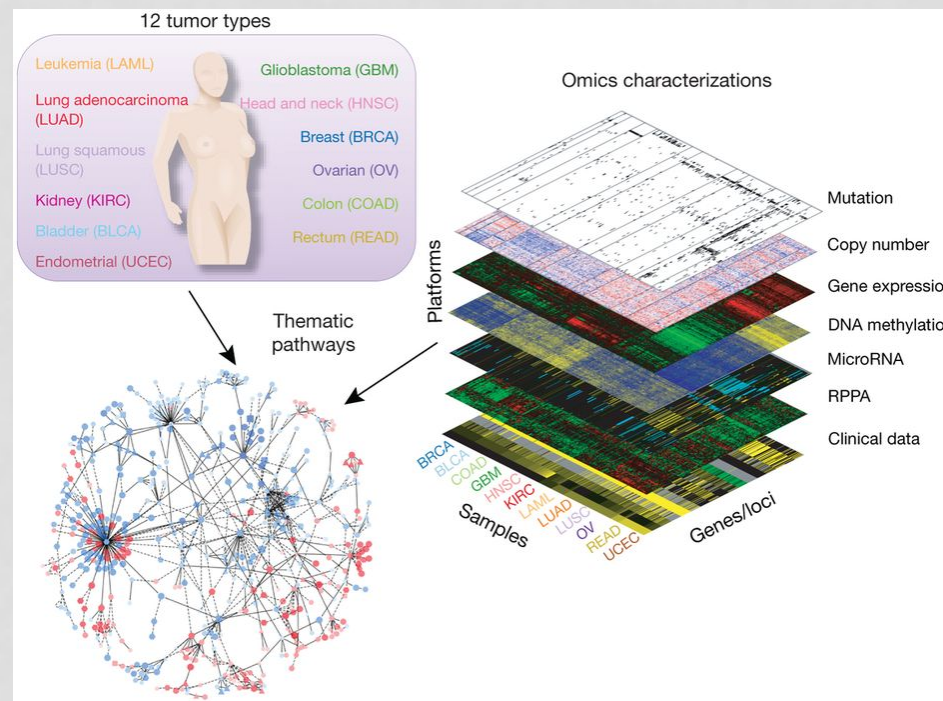
## BIG DATA IN ONCOLOGY

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231

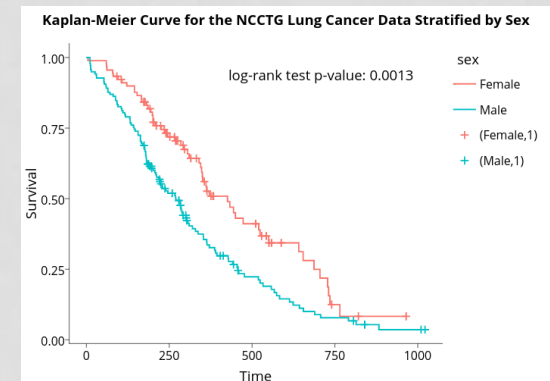
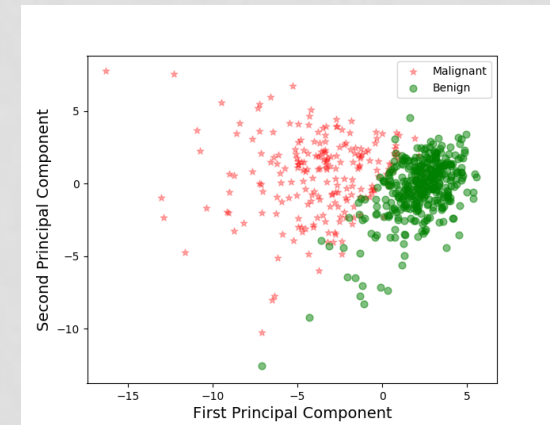
# GENOMIC ANALYSES OF CANCERS

- Topic of this UE
  - Genomic Data are generated massively from tumour samples



# GENOMIC ANALYSES OF CANCERS

- Genomic Data are generated massively from tumours in order to:
    - Classify cancers using genomic data
    - Optimise diagnosis and prognosis of cancers
    - Optimise treatments
- > « precision medicine »



# GENOMIC ANALYSES OF CANCERS

- Concepts and skills that you will learn
  - Basic skills in programming (Unix, PERL)
  - Informatic tools for descriptive statistics
  - Practical exercises using gene expression data generated from adrenocortical carcinoma/adenoma

# GENOMIC ANALYSES OF CANCERS

- Where?
  - « Salle de pédagogie inversée » / « Flipped classroom » in the SCRIPT (informatic facility)
- When? (4th-8th oct.)
  - Monday - Introduction / Unix basics
  - Tuesday - PERL basics
  - Wednesday and Thursday - descriptive statistics on tumour data
  - Friday - Principal Component analyses and survival analyses
- Evaluation
  - 3 short questionnaires during the week
  - 1 short report in a « letter format » to write
- Questions
  - [anne.vanet@univ-paris-diderot.fr](mailto:anne.vanet@univ-paris-diderot.fr)
  - [fabien.fauchereau@ijm.fr](mailto:fabien.fauchereau@ijm.fr)