Patient stratification studies: challenges and opportunities

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The other was the best recovered in his condition; and being now pretty well, was appointed nurse to the rest of the sick. Next to oranges, I thought the cyder had the best effects.

- James Lind -
Personalized medicine research
What is the best treatment option for this subgroup of patients?

**STRATIFICATION COHORT**
- Cohort data
- Cohort samples
- Stratification algorithm
- Omics data

**VALIDATION COHORT**
- Clusters

**TRANSLATIONAL STEP**
- Animal models
- Organoid models
- Cellular models
- In silico models

**CLINICAL TRIALS**
- Efficacy of treatment assigned to each cluster
- Comparative effectiveness: personalised vs. non-personalised approach
Patient stratification studies: challenges and opportunities

- The AETIONOMY study
  - Jean-Christophe Corvol, Paris
- Design and statistical methodology in patient stratification programmes: stratification cohort, validation cohort, clinical trials
  - Raphaël Porcher, Paris
- Multimodal data management: clinical, multi-omics and imaging data
  - Jan-Willem Boiten, Utrecht
- Multinational cohort integration
  - Josep Maria Haro, Barcelona
- Machine learning algorithms for patient stratification
  - David Sadek, Paris
- Reuse of data and biosamples, informed consent and personal data protection challenges
  - Michaela Mayrhofer, Graz
- Promoting international cooperation in personalised medicine research: International Consortium for Personalised Medicine (ICPerMed)
  - Astrid Vicente, Lisbon
- The challenges of patient stratification studies and personalised treatments for health technology assessment
  - Frank Hulstaert, Brussels