Multidisciplinary multicenter training

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Motivation

EU Project for the development of statistical methods
For the integration of NGS and omics data

Cell biologists
Bioinformaticians
Biostatisticians

Work together in the same project but:
- Different languages
- Different scientific interests
- Different understandings of the questions and solutions
The new biologist

• A substantial fraction of biology research has changed from being descriptive to be quantitative

• New generation of biologists should be skilled accordingly
Master Courses in Bioinformatics are focused on the dry-lab knowledge
Act at a after-graduate stage
Although do teach biology do not teach on biology questions and wet-lab interface
Computational Biology Training

Need of to provide a specific training to create the next generation of computational biologists

- Knowledge of cell biology questions
- Skilled at the lab
- Skilled at computational analysis
Ideally...

Long-lasting training, not just a course PhD program???/Master???

Deal with real biological questions and Wet-lab experiments

Use computational approaches to Provide answers to biological questions

Internationally oriented
How would that be possible?

• Involvement of major Bioinformatics training initiatives  GOBLET, ELIXIR, EBI,GBP...
• Involvement of major European Genome Research Centers  ➔ How to do this???
• Funding
  – H2020?
  – Marie Curie ITNs ?