# OMICS IT4Innovations





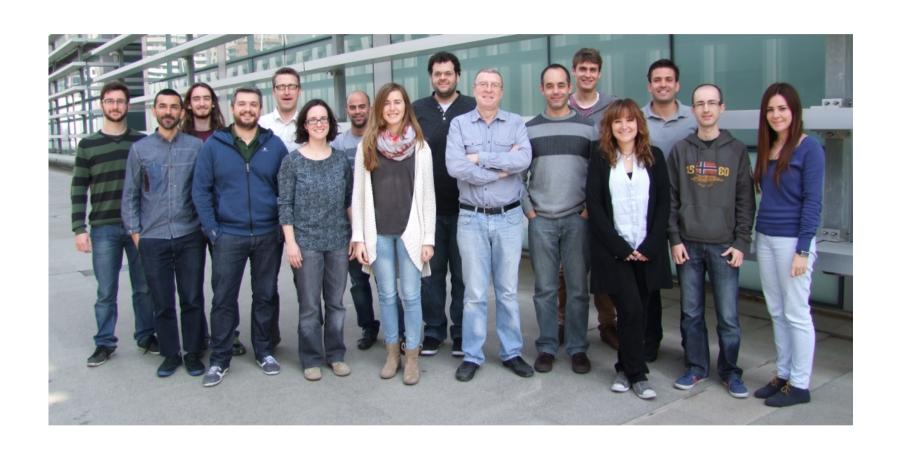
#### Who are we?

The Department of Computational Genomics, in Research Center Prince Felipe

Team: multidisciplinary group of 20 researchers and technicians led by Joaquín Dopazo

http://bioinfo.cipf.es/

### Who are we?



#### Why are we interested in Computational Genomics?

- The overall goal of the department:
  - Apply computational methods to biomedical and biotechnological problems

#### Research interests:

- The development and application of novel bioinformatics methods aimed at discovering new drugs
- Identification of genes or proteins may be considered therapeutic targets
- Personalized medicine: tools for discovering and diagnostic

#### How do we work?

 Our department converts customer needs into bioinformatics solutions

- Free software for several reasons:
  - Any customer can try our tools
  - The scientific community can test our software
  - This is the current trend in Computational Genomics

#### How do we work?



#### PRINCIPE FELIPE

CENTRO DE INVESTIGACION

Computational Genomics









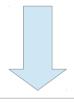


Network Miner





























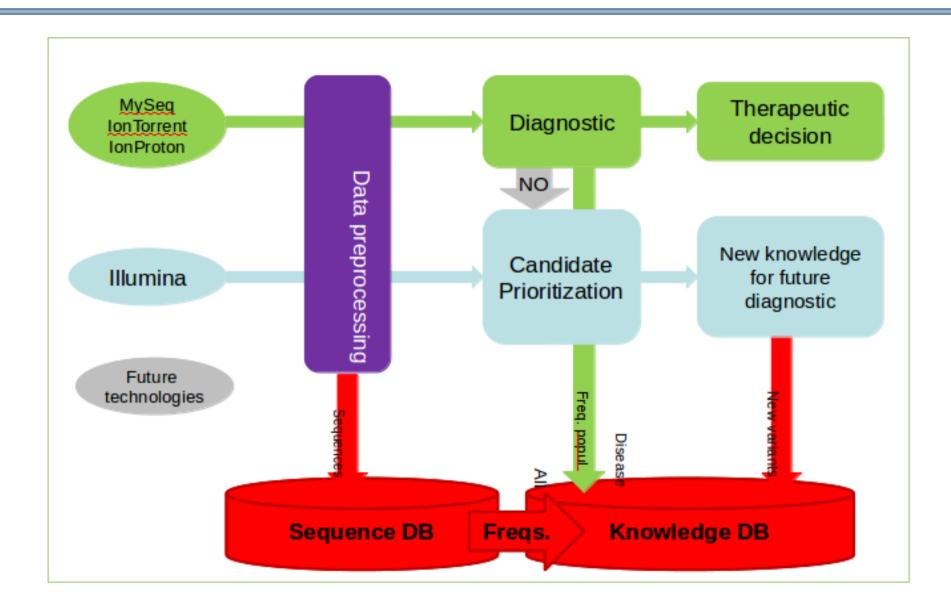


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## OMICS MASTER

#### The final schema: diagnostic and discovery



## Program

1) Introduction to NGS Technologies for Variation Studies

- 2) Quality Control
- 3) Mapping
- 4) Visualization of NGS data
- 5) Variant Calling / Annotation

#### Documentation

http://bioinfo.cipf.es/projects/it4i:start

User: it4i password: it4i