

Centro di Ricerca, Sviluppo e Studi Superiori in Sardegna



- Interdisciplinary research center focused on computational sciences
- Located in the POLARIS Science and Technology Park (Pula, Sardinia, Italy)
- Operational since 1992
- RTD staff of about 150 people

CRS4 High throughput NGS facility

- Currently the largest sequencing center in Italy
 - Equipment: 3 Illumina HiSeq2000/2500
 - HiSeq 3000 under procurement
 - Capacity: about 5.4 Tbases/ month
 - NGS applications: Whole DNAseq, exome seq, RNA-Seq, ChIP-Seq
 - Largest and most productive in Italy, in the European High League, > 3000 sequenced samples since 2010
- Fully integrated with CRS4 computing center
 - Automated and fast processing pipelines
 - Scalable dynamic data management



Strong impact on biomedical research ~ 50 papers



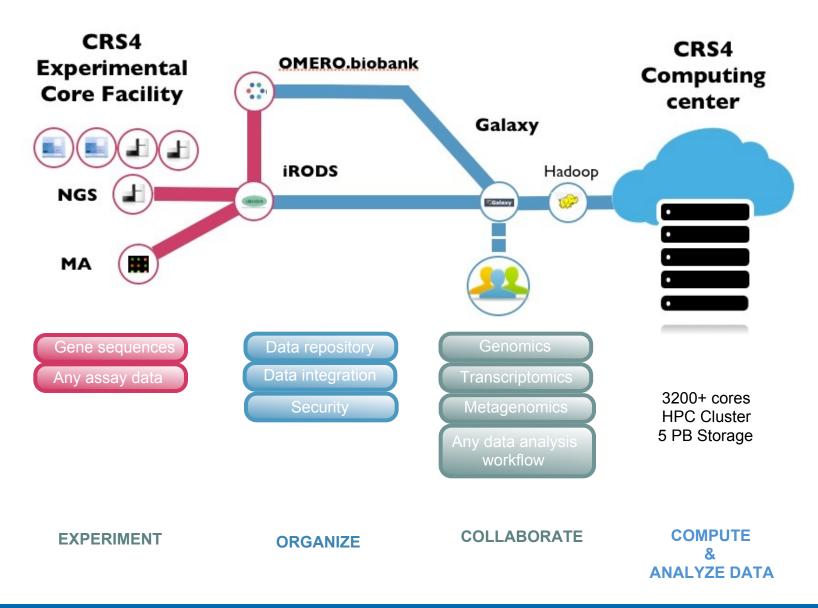
CRS4 Data analysis and interpretation platform

- Based on Galaxy, an open web based platform
 - Accessible, reproducible, and transparent community standard
 - Personalized data access and specialized tools for downstream data analysis
- Backed on a 3200+ cores HPC cluster with 4PB storage
 - Use "Big Data" technologies to help scale computation
 - Centralize storage policies and management











More information

Fully customizable solutions are available at CRS4 for acquisition, analysis and storage of raw data from any NGS experiment.

For more information, please inquire: ngs_services@crs4.it

