

The EU Framework Programme for Research and Innovation

HORIZON 2020

Data resources in the life sciences: perspective from the European Commission

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Research and Innovation

Databases: challenges for policy makers





Business models for EU support to databases



12 ESFRI + coordination (BioMedbridges - CORBEL)



2. Large-scale research projects

- Human Brain Project
- Public-Private Partnership projects (IMI2): eTRICKS, BD4BO





3. Multilateral initiatives Global strategies for global health challenges





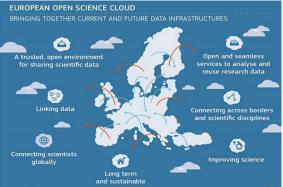
















1. EU infrastructures for bio-medical research

















BioMedBridges and CORBEL provide technical bridges to allow data integration in the biological, medical, translational and clinical domains



Biology

INFRAFRONTIER













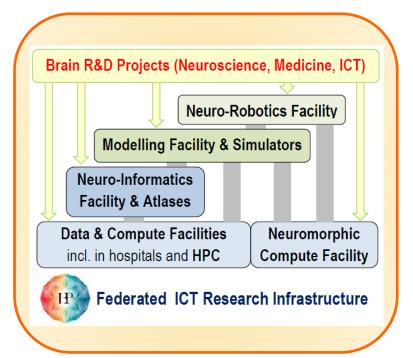
2. Large-scale research projects: HBP





A federated ICT infrastructure for the neuroscientists to collect, share, integrate and model data about the brain for understanding the functioning

of the human brain and its diseases



- A very large-scale European collaborative research initiative: More than 400 scientists from 112 institutions from 24 countries
- A 10 years Research Roadmap, 1 B€ budget
- Ramp-up phase (FP7): 1st October 2013 to 31st March 2016 − 54 M€ EU funding
- Operational phase (H2020): 01 April 2016 to 2020+: ~50 M€ EU funding/year



Innovation

3. Multilateral research initiatives



International Epigenome Consortium



About

Overview

Data Grid

Download

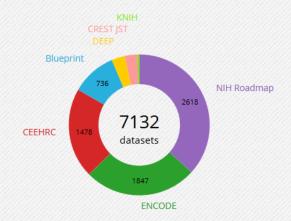
Genome Browser

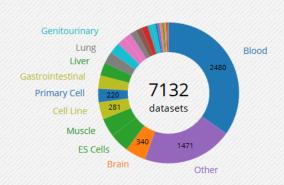
IHEC Main Site

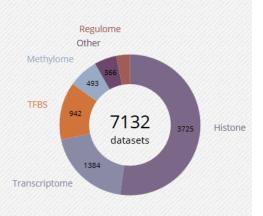
Welcome to the IHEC Data Portal

You may select IHEC datasets in these charts to view them in the Data Grid. Alternatively you can download or display them in a Genome Browser.

Genome: Human (hg19)







By Consortium

By Tissue

By Assay Category

4. European Open Science Cloud



- It will provide 1.7 million EU
 researchers an environment with
 free, open services for data
 storage, management, analysis and
 re-use across disciplines
- The cloud will federate existing and emerging horizontal and thematic data infrastructures, effectively bridging todays fragmentation and ad-hoc solutions



- It will add value (scale, data-driven science, inter-disciplinarity, data to knowledge to innovation) and leverage current and past infrastructure investment (10billion per year by EU Member States, two decades EU investment)
- Governance is a key issue





Thank you for your attention