Genotype-to-Phenotype Databased: A Holistic Solution

Research Areas

- Tool Development
- Data-Sharing Enabler

At a Glance

- Status: Completed Consortium
- Year Launched: 2008
- Initiating Organization: European Commission Seventh Framework Programme (FP7)
- Initiator Type: Government
- Location: Europe

Abstract

The Genotype-to-Phenotype Databases (GEN2PHEN) consortium aims to create a web-based platform to capture and unify genetic information associated with health and disease progression. The consortium’s focus is to create an integrated genetic variation catalog for the research community, with a focus on disorders such as diabetes, obesity, heart disease, and cancer.

Mission

GEN2PHEN is a European-funded (Seventh Framework Programme) consortium focused on creating a database with human and model organism genetic variation data linked with other biomedical data sources via a genome browser functionality. It aims to create building blocks needed to create a complete biomedical knowledge environment, which will be used to construct a first-generation version of a genotype to phenotype (G2P) knowledge environment. This will consist of a European-centered but globally networked hierarchy of bioinformatics GRID-linked databases, tools, and standards, all tied into the Ensembl genome browser.
GEN2PHEN has the following specific objectives:

**Financing**

GEN2PHEN is funded by the Health Thematic Area of the Cooperation Programme of the European Commission within the Seventh Framework Programme for Research and Technological Development.

**Links/Social Media Feed**

Homepage  http://www.gen2phen.org/
Twitter  @gen2phen

**Sponsors & Partners**

- BioBase GmbH, Germany
- Biocomputing Platforms Ltd Oy, Finland
- Commissariat à l’Energie Atomique, France
- Council of Scientific and Industrial Research, India
- deCODE genetics ehf, Iceland
- Erasmus University Medical Center, Netherlands
- European Molecular Biology Laboratory, Germany
- Foundation for Research and Technology – Hellas, Greece
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Updated: 04/18/2016