

Extended Poster Abstract

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The Competence Network HepatoSys

Since January 2004, the Federal Ministry of Education and Research (BMBF) has funded an innovative and interdisciplinary research initiative in systems biology to complement activities in the German Federal Government's Program "Biotechnology - using and shaping its opportunities".

The endeavour of HepatoSys is the quantitative understanding of complex and dynamic cellular processes in endocytosis, detoxification, iron regulation and regeneration of human hepatocytes. To that effect four interdisciplinary Germanwide collaborative network projects were installed.

To support their work and to maintain the national competence network in systems biology, technology platforms for cell biology and modeling were formed.

The aim is both to arrive at a holistic understanding of hepatocytes life processes as well as to be able to present and make these processes accessible in silico, through software, on the computer.