



Swiss Institute of
Bioinformatics

MEDIA RELEASE

SIB shows innovative bioinformatics at the Swiss Innovation Forum 2015

Lausanne, 5 November 2015 – Decision-makers, professionals, journalists and the general public will have the opportunity to discover how bioinformatics is innovating in Life Sciences and Precision Medicine. On Thursday, 19 November 2015, SIB Swiss Institute of Bioinformatics will take part in Future Expo, the industry exhibition at the Swiss Innovation Forum (SIF) in Basel. The Swiss Innovation Forum is the national platform for promoting innovation, creativity and design.

Future Expo, the fair that accompanies the Swiss Innovation Forum (SIF), gives exhibitors the opportunity to show their latest innovations in various fields of industry. SIB will show two innovations which are examples of what SIB's data science solutions can contribute to precision medicine and drug development.

The first innovation, developed by the SIB Vital-IT Group, is the algorithm behind the non-invasive prenatal test Prendia. The test detects chromosomal anomalies in foetal DNA present in maternal blood. The high sensitivity and specificity of the test were achieved because the group looked at the data from a novel angle and developed the algorithm accordingly. This was possible thanks to the joint experience of the experts SIB unites to provide excellence in data analysis for academia and industry, and experts at the partners Medisupport and Fasteris.

The second innovation is the result of the modelling activities of two SIB groups, one in Basel and one in Lausanne: SWISS-MODEL and SwissDock provide 3D-models of protein structures and protein-drug interactions for studying protein function and supporting drug development. SWISS-MODEL is one of the most widely used web-based 3D protein-modelling servers worldwide; SwissDock allows *in silico* structure-based drug development. The fully-automated services combine accurate algorithms with high-performance implementation and a user-friendly interface especially designed for non-experts.

About SIB Swiss Institute of Bioinformatics

The SIB Swiss Institute of Bioinformatics is an academic not-for-profit foundation. Its mission is to lead and coordinate the field of bioinformatics in Switzerland. Its data science experts join forces to advance biological and medical research and enhance health by i) providing the national and international life science community with a state-of-the-art bioinformatics infrastructure, including resources, expertise and services; ii) federating world-class researchers and delivering training in bioinformatics. It includes some 60 world-class research and service groups and some 700 scientists in the fields of genomics, transcriptomics, proteomics, evolution, population genetics, systems biology, structural biology, biophysics and clinical bioinformatics.

<http://www.isb-sib.ch>



MEDIA CONTACT

SIB Swiss Institute of Bioinformatics

SIB Communication
Quartier Sorge - Bâtiment Génopode
CH-1015 Lausanne
+41 21 692 40 54
[Communication \[at\] isb-sib.ch](mailto:Communication@isb-sib.ch)