

SIB Days programme

Tuesday 26 June

09:00	Registration	Foyer
10:00	Welcome speech Ron Appel, SIB Executive Director	Kongresssaal
10:30	Special topic I (Chair: Lydie Lane) “Insights into the Swiss Personalized Health Network” Manfred Claassen, Ernst Hafen	Kongresssaal
11:15	Keynote lecture I (Chair: Lydie Lane) “DNA, data storage, bitcoin, James Joyce: the bioinformatics connection” Nick Goldman	Kongresssaal
12:15	Poster spotlights (Chair: Lydie Lane)	Kongresssaal
12:50	Lunch and poster session I	Foyer

	Parallel session I (Chair: Philipp Bucher) Kongresssaal	Parallel session II (Chair: Giovanni Ciriello) Vereinssaal
14:50	“Curation is key: quantifying the impact of manual gene annotation improvements” Robert Waterhouse (Group: Robert Waterhouse)	“Comprehensive Analysis of Alternative Splicing Across Tumors from 8,705 Patients” Kjong-Van Lehmann (Group: Gunnar Rätsch)
15:10	“Curation of rapidly-evolving and potentially controversial hypotheses of anatomical homology” Frédéric Bastian (Group: Marc Robinson-Rechavi)	“Vital-DH projects@Vital-IT: research and infrastructure challenges” Martial Sankar and Claire Clivaz (Group: Vital-IT)
15:30	“A comparative analysis of empirical genotype-phenotype maps” Joshua Payne (Group: Joshua Payne)	“A SPARQLing example of federated genome and proteome annotation - HAMAP” Jerven Bolleman (Group: Alan Bridge)
15:50	“Interplay between Notch signaling and ID factors during adult and embryonic neurogenesis” Marcelo Boareto (Collaborating group: Dagmar Iber)	“Pushing the limits of de novo genome assembly for complex prokaryotic genomes and enabling accurate genome annotation by proteogenomics” Michael Schmid (Group: Christian Ahrens)
16:10	“Rare codons enhance translation of mRNAs required for cellular proliferation” João Guimarães (Group: Mihaela Zavolan)	“Knoto-ID, a tool for the topological analysis of open protein chains using the concept of knot-oids.” Dimoklis Gkountaroulis (Group: Andrzej Stasiak)

16:30	General assembly SIB employees	Kongresssaal
	SIB PhD Training Network Get Together	Vereinssaal
From 17:30	Cocktail	Beach
19:00	Dinner and evening programme	Beach

Wednesday 27 June

Lottery tickets till 9:29

9:30	Lightning talks (Chair: Carlos-Andrés Peña-Reyes)	Kongresssaal
	<ul style="list-style-type: none"> Glyconnect, a platform to explore glycoproteins in cancer - Davide Alocci (Group: Frédérique Lisacek) Exploration a large spectrum of machine-learning techniques to predict phage-bacterium interactions Diogo Leite (Group: Carlos Peña) Large-scale reanalysis of proteomics data - An application to the HeLa cell line Thibault Robin (Group: Lydie Lane, Amos Bairoch) Association of novel and highly divergent human viruses to diseases of unknown etiology, using meta-genomics - Francisco Brito (Group: Evgeny Zdobnov) Tree-ensemble analysis tests for presence of multifurcations in single cell data Will Macnair (Group: Manfred Claassen) Structure-based database of B-propeller lectins for identification and prediction in nature François Bonnardel (Group: Frédérique Lisacek) Towards hypothesis-free identification of disease-associated immune cell signatures - an application to multiple sclerosis - Eirini Arvaniti (Group: Manfred Claassen) Characterising gene evolutionary-functional correspondences for an enhanced resolution of gene function - Livio Ruzzante (Group: Robert Waterhouse) Bionotator and NRPro: Bioinformatics Tools for the study of Nonribosomal Peptides Emma Ricart Altimiras (Group: Frédérique Lisacek) Whole genome sequencing and comparative genomics of 9 Pseudomonas strains to explore their differing protective effects against potato late blight - Adithi Varadarajan (Group: Christian Ahrens) 	

10:25 Coffee Break

11:00	Parallel workshops	Check rooms on-site
	<ol style="list-style-type: none"> Building a SIB Resources Community around User-centered Design and Knowledge Sharing Handling biomedical data with BioMedIT infrastructures for personalized medicine HPC Tools for Reproducible Research and Training: Singularity and Hail Genomics Embedded bioinformatics @ SIB, the past, present and future Computer-aided drug design with SwissDrugDesign Data quality control – who, what, when, where and how Single Cell protocols – From raw reads to cell clusters in a few easy steps 	

13:00	Lunch and poster session 2	Foyer
15:00	Special Topic II (Chair: Manfred Claassen) “Big data: challenges and some solutions” Christophe Dessimoz (University of Lausanne & SIB, University College London)	Kongresssaal
15:40	Keynote lecture II (Chair: Manfred Claassen) “Single-cell RNA sequencing and the Human Cell Atlas” Fabian Theis (Technische Universität München)	Kongresssaal
16:40	Awards & lottery draws (Chair: Manfred Claassen)	Kongresssaal
16:55	Wrap-up & Farewell	Kongresssaal