

POSTERS

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Ecology, environment and agriculture

Poster N°	Title	First Name	Last Name	Day
A1	Can the geographical origin of ancient individuals be traced from metagenomic data?	Davide	Bozzi	Tuesday
A2	Developmental and life stage ontologies for data management and comparison between species	Anne	Niknejad	Tuesday
A3	The good the bad and the ugly: the three sequencing approaches to compare microbial communities in aquaculture farms	Adamandia	Kapopoulou	Tuesday
A4	Microbe Atlas Project: a global analysis and web resource of microbiome data enabling the characterisation of species habitats and comparative community analysis	Joao Frederico	Matias Rodrigues	Tuesday
A5	Using microbiome data to assemble a plant-inspired biocontrol community against the potato late blight	Vivien	Pichon	Tuesday

Evolution and phylogeny

Poster N°	Title	First Name	Last Name	Day
B10	Benchmarking methods using time-series data to infer selection	Lucas	Anchieri	Tuesday
B11	ARPIP: Ancestral sequence Reconstruction with insertions and deletions under the Poisson Indel Process	Gholamhossein	Jowkar	Tuesday
B6	Dynamic eco-evolutionary fitness landscapes display complex evolutionary trajectories and sustained diversity	André	da Conceição Amado	Tuesday
B8	mapache: a flexible and scalable pipeline to map ancient DNA data	Samuel	Neuenschwander	Tuesday
B9	Epistasis defines the transmission fitness of multidrug-resistant Mycobacterium tuberculosis	Ethel	Windels	Tuesday
B1	Reversions to consensus are positively selected in HIV-1 and bias substitution rate estimates	Valentin	Druelle	Wednesday
B2	Large-scale inference of gene function through phylogenetic annotation of Gene Ontology terms	Marc	Feuermann	Wednesday
B3	The effect of recombination on the evolutionary dynamics of populations evolving on neutral networks	Alexander	Klug	Wednesday
B5	Rise and fall of deleterious variants: the origins of modern genetic diseases	Nina	Marchi	Wednesday
B7	Association between gene duplication and gene length in parasitic Platyhelminthes	Natalia	Zajac	Wednesday

Structural biology

Poster N°	Title	First Name	Last Name	Day
F1	Enabling structure-guided life science research with the SWISS-MODEL Repository, ModelArchive and ModelCIF	Gerardo	Tauriello	Tuesday
F2	TBvar3D: Mycobacterium tuberculosis resistance variants mapped on protein structures	Erbilin	Asllanaj	Tuesday
F3	SwissSimilarity 2021	Maiia	Bragina	Tuesday
F4	Benchmarking ligand structure prediction methods	Xavier	Robin	Tuesday
F5	SwissBioisostere 2021	Alessandro	Cuozzo	Wednesday
S8	SwissDrugDesign. Continuous improvement of the background science engines and the user interfaces.	Antoine	Daina	Wednesday

Genes and genomes

Poster N°	Title	First Name	Last Name	Day
V	Evolution of gene expression in the chemosensory tissues of ecologically diverse fly species	Bastien	Saint-Leandre	Tuesday
C5	Achieving reference-quality genomes for non-model arthropods	Sagane	Dind	Tuesday
C7	Translational regulation of metabolism in T helper 1 cell differentiation	Jana	Koch	Tuesday
C8	Integrative analysis of cancer genomic correlations	Ziying	Yang	Tuesday
C9	Integration and homologous comparison of bulk and single-cell RNA-seq in Bgee	Frederic	Bastian	Tuesday
S7	OpenGenomeBrowser: A reusable database independent and scalable web platform for genome database management and comparative genomics	Thomas	Roder	Tuesday
S9	Imputation of ancient genomes	Barbara	Mota	Tuesday
C1	Tracing the evolutionary history of moulting genes across arthropod diversity	Giulia	Campli	Wednesday
C2	Exploring sequence conservation landscapes across diverse arthropods	Romain	Feron	Wednesday
C3	Control of the false discovery rate over the calls of expression	Sara	Fonseca Costa	Wednesday
C4	Comparative gene expression analysis of moulting in arthropod lineages	Kenneth	Kim	Wednesday
C6	Comparative Genomics of East African Camel-Associated Staphylococcaceae spp.: Diversity and Inheritance of Traits Involved in Host-Pathogen Interactions	Hatice	Akarsu Egger	Wednesday
S2	Evolutionary and functional characterisation of Drosophila immune peptides	Antonin	Thiébaud	Wednesday

Others

Poster N°	Title	First Name	Last Name	Day
O1	Pedagogical perspectives for a more inclusive scientific society	Tugce	Bilgin	Tuesday
O2	Emphasis on numbers is not enough: why addressing Equality, Diversity and Inclusion at the SIB Swiss Institute of Bioinformatics matters	Julien	Roux	Wednesday
SIB Booth Ground Floor	The SIB Staff Committee - with you since 2012	Beatrice	Cuche	Tuesday & Wednesday

Medicine and health

Poster N°	Title	First Name	Last Name	Day
D5	How much does Dissimilarity-to-Self translate into neo-epitope immunogenicity?	Daniel	Tadros	Tuesday
D6	TCRpcDist: Estimating the physico-chemical similarity of TCR. Application to TCR repertoire analysis and TCR specificity prediction.	Marta Andreia	Da Silva Perez Gome	Tuesday
D8	Clinical tools for interpreting genetic variants, SwissGenVar on BioMedIT, Switzerland's secure infrastructure for biomedical research.	Shubham	Kapoor	Tuesday
D9	Uncovering the Diverse Roles of Short Tandem Repeat Variation in Colorectal Cancer	Max	Verbiest	Tuesday
D2	The Swiss Pathogen Surveillance Platform – a nationwide One-health sequencing data platform	Aitana	Lebrand	Wednesday
D3	Evaluation of the use of supplementary data to improve genomic variant discovery	Emilie	Pasche	Wednesday
D4	From clinical (routine) data to FAIR research data	Vasundra	Touré	Wednesday
S10	STR Explorer - workflow for genome-wide association studies based on short tandem repeats	Oxana	Lundstrom	Wednesday

Systems biology

Poster N°	Title	First Name	Last Name	Day
H3	Interpretation of T cell states from single-cell transcriptomics data using reference atlases	Massimo	Andreatta	Tuesday
H5	CREMA: Automated modelling of genome-wide chromatin state in terms of local constellations of regulatory sites.	Mikhail	Pachkov	Tuesday
H1	The Cellosaurus: status in 2022 and future developments	Amos	Bairoch	Wednesday
H2	Integrative molecular roadmap for reprogramming fibroblasts into induced myogenic stem and progenitor cells	Adhideb	Ghosh	Wednesday
H4	GO-CAM pathway annotation by the UniProt/Swiss-Prot group	Patrick	Masson	Wednesday
H6	Omics Playground: a bioinformatic platform for the analysis of omics data	Gabriela	Scorici	Wednesday
S6	CanIsoNet: A Database to Study the Functional Impact of Isoform Switching Events in Diseases	Tülay	Karakulak	Wednesday

New methods in bioinformatics

Poster N°	Title	First Name	Last Name	Day
E4	Outlier detection methods as a means of improving low replicability of RNA-Seq differential expression analysis	Peter Methys	Degen	Tuesday
E5	The ELIXIR:GA4GH Cloud	Alex	Kanitz	Tuesday
E8	Pangraph: scalable bacterial pan-genome graph construction	Marco	Molari	Tuesday
E9	Continuous integration and management of heterogeneous data through RDF technology	Marco	Pagni	Tuesday
S1	Making interactive single-cell RNA-sequencing data exploration more accessible	Athimed	El Taher	Tuesday
S3	Continuous Benchmarking of Taxonomic Classifiers for Metagenomics with LEMMI v2	Mathieu	Seppey	Tuesday
E1	Computational approaches to deconvolve the tumor immune micro-environment using ATAC-Seq data.	Aur�lie	Gabriel	Wednesday
E10	SIB software stack	Robin	Engler	Wednesday
E11	Genotype data compression for efficient management and analyses in large biobanks	Rick	Wertebroek	Wednesday
E12	Classification of oncology treatment responses from radiology reports with supervised machine learning	Luc	Mottin	Wednesday
E13	Taxonbridge: an algorithm for the creation and analysis of custom taxonomies	Werner	Veldsman	Wednesday
E14	Somatic Copy Number Alteration Data Calibration	Hangjia	Zhao	Wednesday
E2	BioMedIT: Switzerland's secure infrastructure for analysing biomedical data	Shubham	Kapoor	Wednesday
E3	OMAMO: orthology-based alternative model organism selection	Alina	Nicheperovich	Wednesday
E6	SPACEconnect: a new method to visualise correlations between experimental gene expression and drug connectivity map profiles	Murodzhon	Akhmedov	Wednesday
E7	Machine learning for extraction of biochemical reactions from the scientific literature	Blanca	Cabrera Gil	Wednesday

Proteins and proteomes

Poster N°	Title	First Name	Last Name	Day
G1	Glyco@Expasy : expanding the glycomics section of Expasy	Julien	Mariethoz	Tuesday
G3	Comparing models for protein sequence generation	Damiano	Sgarbossa	Tuesday
G5	prolfqua - R-package for Analysing Protein Quantification and Protein Interaction Experiments	Witold	Wolski	Tuesday
S5	IsoAligner: dynamic mapping of amino acid positions across protein isoforms	Jacob	Hanimann	Tuesday
G2	Toward a comprehensive representation of the human metabolome in UniProtKB	Lionel	Breuzza	Wednesday
G4	Tending to the plot in UniProt	Damien	Lieberherr	Wednesday
G6	Swiss-PO and its upcoming updates	Fanny	Krebs	Wednesday
G7	Delineation of kinase signaling networks in tumor-associated macrophages	Tiberiu	Totu	Wednesday
S4	Protein detection sensitivity in 2D electrophoresis experiments strongly depends on imaging parameters	Sonja	Voordijk	Wednesday