November 11th

8:00 to 9:00	**Registration**
9:00 to 9:15	**Opening Ceremony**
9:15 to 10:00	**KEYNOTE TALK. Ana Tereza Ribeiro de Vasconcelos (National Laboratory for Scientific Computing, Brazil)** From Genomes to Knowledge: Bioinformatics at National Scale in Brazil
10:00 to 10:15	**Coffee Break**

SESSION 1: Proteomics and Protein Structure and Function
Chair: Lucía Chemes

10:15 to 10:45	**INVITED SPEAKER. Ariela Vergara Jaque (Facultad de Ingeniería Talca, Chile)** Computational strategies for designing modulators of ion channel protein–protein interactions.
10:45 to 11:15	**INVITED SPEAKER. Miguel Andrade (Johannes-Gutenberg, University in Mainz, Germany)** Sequence, context, and AI: Studying the functional landscapes of intrinsically disordered regions.
11:15 to 11:55	**SHORT TALKS SELECTED FROM ABSTRACTS** **Ornella Falduti (IBBM, UNLa Plata, Argentina)** In silico prediction of (p)ppGpp alarmone binding to DksA and NodD1 in Bradyrhizobium diazoefficiens: a possible link between the stringent response and nodulation gene expression
	Juliana Glavina (UNSAM, BA, Argentina) A Novel Experimentally-derived Dataset for Structural and Sequence Analysis of Disordered Flexible Linkers
	Exequiel Barrera (IHEM, UNCuyo, Mendoza, Argentina) Simulation-guided structural modelling of amyloid-like fibrils. From isolated peptides to nanoscale assemblies
	Galo Ballati (UNQ, BA, Argentina) Molecular dynamics simulations support a dynamic RNA-recognition hotspot in the intrinsically disordered N-terminal domain of the androgen receptor
11:55 to 12:00	**Short Break**
12:00 to 12:45	**ROUND TABLE.** Chairs: Salvador Capella, Georgina Stegmayer Perspectives of Artificial Intelligence in the life sciences **Gabor Erdos (ELTE, Hungary)** **Jiri Vondrasek (ELIXIR Czech)** **Ana Tereza de Vasconcelos (NLSC, Brazil)** **Henning Hermjakob (EMBL-EBI)** **Rodrigo Diaz (UNSAM, ITBA, Argentina)**
12:45 to 14:00	**Lunch Break**

SESSION 2: Evolutionary, Comparative and Population Genomics

14:00 to 14:30	**INVITED SPEAKER. Pierre Luisi (UNC, Argentina)** Ancient and Present-Day Genomes in the Southern Cone: Challenges for Reconstructing Population History
14:30 to 15:00	**INVITED SPEAKER. Juliana Vianna (UNAB, Chile)** From reference genomes to population genomes: evolution and adaptation of South American and Antarctic vertebrates
15:00 to 15:45	**SHORT TALKS SELECTED FROM ABSTRACTS** **Francisco Pisciottano (IBYME-CONICET))** Assessing the Impact of Kinship on Population Genomic Analyses in the Jaguar (*Panthera onca*)
	Abril Pagnutti (UNLa Plata, Argentina) Protein intrinsic disorder is associated with replicon location in the multipartite prokaryotic genome of Sinorhizobium meliloti
	Francisco Gonzalez Espinosa (UBA, BA, Argentina) Bioinformatics applied to the study of the population dynamics of carbapenem-resistant Klebsiella pneumoniae ST258 in Buenos Aires Hospitals.
15:45 to 16:00	**Coffee Break**

SESSION 3: Genomics, Transcriptomics, Epigenetics and Metagenomics

16:00 to 16:30	**INVITED SPEAKER. Rodrigo Nores (UNC, Argentina)** Paleogenomic Analysis Reveals 8,000 Years of Indigenous Lineage Continuity in Human Populations of Central Argentina
16:30 to 16:45	**INVITED SPEAKER. Salvador Capella Gutierrez (BSC, CNS, Spain)** ELIXIR: Ten priority areas for AI in Life Sciences. How do we move forward?
16:45 to 17:00	**INVITED SPEAKER. Laura Kamenetzky (UBA, Argentina)** Consolidation of a long-read sequencing genomics center in southern South America
17:00 to 17:45	**SHORT TALKS SELECTED FROM ABSTRACTS** **Carina Fariñas (IBYME, BA, Argentina)** Epigenomic and transcription factor profiles distinguish Progesterone Receptor binding sites with and without the canonical motif
	Bruno Breggia (sinc, UNL, Sta Fe, Argentina) An attention-based deep model for RNA secondary structure prediction
	Luciana Ant (IBYME, BA, Argentina) Temporal-spatial genomic regulation of the human endometrium
	Daniela Orchanski (UNC, Cordoba, Argentina) FusionAR-KB: A Multi-Layered Knowledgebase for Transcript-Specific Architecture and Clinical Interpretation of Gene Fusions in Cancer
17:45 to 17:55	**SPONSOR TALK: ZS**
17:55 to 19:30	**POSTER SESSION I**
19:30 to 20:30	**WELCOME COCKTAIL. Art, Science and Technology Event**

November 12th

SESSION 4: Biological Databases and Bioimaging	
9:00 to 9:30	**INVITED SPEAKER. Henning Hermjakob (EMBL-EBI, United Kingdom).** The Complex Portal: From Mass Spectra to Structures
9:30 to 10:00	**INVITED SPEAKER. Cristina Marino (F. Leloir, Argentina)** Exploring the conformational landscape of the amylome
10:00 to 10:30	**SHORT TALKS SELECTED FROM ABSTRACTS** **Martina Ceballos (UC Cordoba, Argentina)** Computational analysis of human iris colour: from segmentation to quantitative phenotyping
	Alexander Mulet (UBA, BA, Argentina) Automatic segmentation of glioblastoma and its hidden tumor infiltration
	M. Victoria Nugnes (UPadova, Italy) Ordering the Disorder: Updates to the Intrinsically Disordered Proteins Ontology
10:30 to 10:45	Coffee Break
SESSION 5: Artificial Intelligence and Systems Biology	
10:45 to 11:15	**INVITED SPEAKER. Silvio Tosatto (U. Padova, Italy)** The DOME ecosystem: from recommendations to applications in Artificial Intelligence
11:15 to 11:45	**INVITED SPEAKER. Juan Cortés (CNRS, France)** Generative models for the design of disordered proteins
11:45 to 12:40	**SHORT TALKS SELECTED FROM ABSTRACTS** **John Hancock (University of Ljubljana, Slovenia)** Making Models That Matter: How to Build Trustworthy and Useful Systems Biology Models
	Ariel Chenomoretz (UBA, F. Leloir, BA, Argentina) Network organization of protein binding-site landscapes across scales
	Leonardo Pedraza (INTECNUS, Rio Negro, Argentina) From human DNA to plant regulatory regions: transfer learning with a Genomic Large Language Model
	Santiago Britez (F. Leloir, BA, Argentina) Monosemantic Decomposition of Protein Language Models via Sparse Autoencoders for Interpretable Missense Variant Classification
	Nicolas Yanovsky (F. Leloir, BA. Argentina) When perturbation queries fail: static gene and protein embeddings outperform simulated scFM perturbation responses
12:40 to 12:45	Short Break

12:45 to 13:30	**ROUND TABLE.** Chairs: Lucia Chemes, John Hancock Leveraging research infrastructures for bioinformatics: the ELIXIR experience **Jimena Rinaldi (CEBEM & UNSAM, Argentina)** **Salvador Capella Gutierrez (BSC, Spain)** **Jiri Vondrasek (ELIXIR Czech)** **Anna Strachotova (ELIXIR Czech)** **Marcelo Martí (FCEN-UBA, Argentina)** **Esteban Mocskos (FCEN-UBA, Argentina)**
13:30 to 14:30	**Lunch Break**

SESSION 6: IDPfun2 Special Track

14:30 to 15:00	**INVITED SPEAKER. Gabor Erdos (ELTE, Hungary)** A zero-shot thermodynamic potential for protein mutational stability
15:00 to 15:30	**INVITED SPEAKER. Nathalie Sibille (CNRS, France)** Functional Disorder in Cell Signaling: Molecular Mechanisms and Case Studies
15:30 to 16:15	**SHORT TALKS SELECTED FROM ABSTRACTS** **Juan Mac Donagh (UNQ, BA, Argentina)** Transposable elements as evolutionary substrates of protein disorder in the human proteome
	Heli García Álvarez (UNSAM, BA, Argentina) LINKER-Pred: A Deep Learning Method and Web-Server for the Prediction of Disordered Flexible Linkers in Proteins
	Leandro A. Bugnon (sinc, UNL StaFe, Argentina) PonTED: augmenting flexible-linker prediction with protein language models and inter-domain context
	Marina Navarro (UNQ, BA, Argentina) Structural Diversity and Conformational Plasticity of Plantaricin A Variants
16:15 to 16:25	**SPONSOR TALK: Fundación Sadosky**
16:25 to 16:40	**Coffee Break**
16:40 to 18:00	**POSTER SESSION II**
18:00 to 18:45	**KEYNOTE TALK. Salvador Ventura (UAB, Spain)** Targeting Protein Aggregation at the Interface of Experiment and Computation
18:45 to 19:15	**PRIZES AND CLOSING CEREMONY**
19:15- 19:30	**A2B2C MEETING** - Election & change of Authorities

November 13th

WORKSHOPS	
9:00 to 17:00	**WORKSHOP.** ELIXIR-GOBLET - TtT (Unit I & II)
9:00 to 10:30	**WORKSHOP.** IDPfun2 - Workshop 1. Computational tools for the prediction of intrinsic disorder in proteins
11:00 to 12:30	**WORKSHOP.** IDPfun2 - Workshop 2. Molecular Network Resources of the European Bioinformatics Institute
9:00 to 17:00	**WORKSHOP.** Language Models Applied to Biological Sequence Analysis

November 14th

WORKSHOPS	
9:00 to 17:00	**WORKSHOP.** ELIXIR-GOBLET - TtT (Unit III & IV)