

CMSB 2026 Lisbon - Programme

Friday 24 July		Saturday 25 July	
8h30	Opening session Pedro T. Monteiro		8h30
9h00	Embedding Intracellular Logic into Agent-Based Models of Cellular Systems	Keynote speaker	An ecosystem of tools and applications of constraint-based modeling: from model reconstruction, prediction and optimization to AI integration
9h30	Anna Niarakis	Keynote speaker	Keynote speaker: Miguel Rocha
10h00	Coffee break		Coffee break
10h30	Source-Target Control of Boolean Networks with Minimal Edge Perturbations Gustavo Magaña-López, Andrzej Mizera, and Jun Pang	Session: Constraint-Based Modeling and Molecular Computation	Inferring Minimal Culture Media using Biologically Constrained Combinatorial Optimization Moana Aulagner, Samuel Blanquart, and Anne Siegel
11h00	Modulation-Reaction Networks Leo Lobski and Yoav Montacute		On the Design of an Analog-Dyadic Converter CRN Mathieu Hemery
11h30	Inference of Qualitative Models from Steady-State Data via Weighted MaxSMT Ondřej Huvar, Nikola Beneš, Martin Jonáš, David Šafránek, and Samuel Pastva		Analog computation with transcriptional networks David Doty, Mina Latifi, and David Soloveichik
12h00	pyModRev: a Python Tool for Model Revision of Boolean Networks (tool paper) Pedro T. Monteiro and Filipe Gouveia		Metabolic Transformation Algorithm: A Systems Biology Approach to Aging and Alzheimer's Disease Bruno Sá, Catarina Gomes, and Miguel Rocha
12h30	Lunch		Lunch
13h00			
13h30			
14h00	Statistical model checking for rule-based models in the Kappa language Albin Salazar, Jérôme Feret, and Tatjana Petrov	Session: Causal Inference and Multi-Omics Integration	Metabolic Flux Inference in a Cheese Microbial Community via comFI: a Biology-informed Approach for Time-resolved Multi-omics Integration Sthyve Tatho, Valentina Baldazzi, and Simon Labarthe
14h30	Efficient Stochastic Trace Generation for Transcription Arman Ferdowsi, Matthias Függer, and Thomas Nowak		GRNgen: a Generator of Gene Regulatory Networks Fitting Graph and Motif Properties Alexandre Tan-Lhernould, Thierry Dorval, and François Fages
15h00	Mamdani-Driven Fuzzy Reaction Systems Linda Brodo, Moreno Falaschi, Fiamma Romagnoli, and Elisa B.P. Tiezzi		Consensus Enhances Individual Causal Models: a Use Case on Lung Cancer Driven by Cellular Pathways Arnaud Lang, Rodrigo Henrique Ramos, Safaa Al-Ali, Mohammad Reza Mousavi, Anna Calissano, and Irene Balelli
15h30	Incremental KaSa: Static Analysis of Kappa Models at Edit Time (tool paper) Rebecca Ghidini and Jérôme Feret		Coffee break
16h00	Coffee break & Poster session		Graph Learning Models for Temporal Gene Expression Prediction and the Role of Interactions Topology Alessandro Dipalma, Alessio Micheli, Paolo Milazzo, Francesco Simonetti, and Domenico Tortorella
16h30			Multi-view Clustering of Transcriptomics and Methyloomics Data Elucidates Glioma Molecular Stratification Carolina Pé-Curto, Roberta Coletti, and Marta B. Lopes
17h00			Closing session Pedro T. Monteiro
17h30			
18h00			
18h30			Walking tour Downtown Lisbon
19h00			
19h30			
20h00	Dinner Restaurante "Casa do Alentejo" Rua das Portas de Santo Antão 58, 1150-268 Lisboa		
20h30			