

International workshop

Bio-Logics: Modular composition and analysis of biological models.

Organisers: Élisabeth Remy and Denis Thieffry

Scientific committee: Madalena Chaves, Tomas Gedeon, Pedro Monteiro, Heike Siebert

Location: CIRM, Luminy, Marseille, May 26-29, 2026

Scheduled program

	Morning (9h-12:30)	Afternoon (14h-18h)
Tuesday	Invited and contributed presentations	Invited and contributed presentations
Wednesday	Tribute to Claudine Chaouiya	Organization of working groups, followed by a walk in the calanques
Thursday	3 working groups in parallel	Group reports and plenary discussion
Friday	3 working groups in parallel	Group reports and plenary discussion (end 16h)

Invited and contributed presentations

Session	Time		
Tuesday morning (May 26) 1st half	9h00	Welcoming address	
	9h15	Gedeon Tomas (MSU, USA)	<i>How well do the Boolean models capture continuous dynamics of regulatory networks?</i>
	9h40	Tournier Laurent (INRAE, FR)	<i>Global sensitivity indices to help analyze Boolean models of biological regulatory networks.</i>
	10h05	Siegel Anne (CNRS, FR)	<i>Modelling and inferring the regulatory mechanisms that control metabolism: progress and challenges.</i>
	10h30	Blohm Julien (IGH, FR)	<i>Evolution of the cell transcriptome during differentiation.</i>
Tuesday morning (May 26) 2nd half	11h15	Safranek David (Masaryk Univ, CZ)	<i>From Boolean Models Inference to Control and Back.</i>
	11h40	Pastva Samuel (Masaryk Univ, CZ)	<i>Dynamically consistent mergers of Boolean models within the PSBN framework.</i>

	12h05	Calzone Laurence (Curie, FR)	<i>Mathematical modelling of the tumour microenvironment with a hybrid approach.</i>
Tuesday afternoon (May 26) 1st half	14h00	Glass Leon (McGill, CA)	<i>Robust Dynamics in Genetic Networks.</i>
	14h25	Chaves Madalena (INRIA, FR)	<i>Analysis of the dynamics of two coupled circadian clocks for comparison of free-running and coupled systems periods.</i>
	14h50	Pankaew Saran (Curie, FR)	<i>AstroLogics : A simulation-based framework for the analysis of monotonous Boolean model ensembles.</i>
	15h05	Bruning Victoria (Curie, FR)	<i>From single-cell time series data to Boolean model simulations : a framework to model multiple cell states transitions in Chronic Lymphocytic Leukemia.</i>
	15h20	Herrera Joël (CRCT, FR)	<i>Spatial multiomics as a foundation for spatially informed gene regulatory network inference in Cancer.</i>
Tuesday afternoon (May 26) 2nd half	16h05	Feret Jérôme (INRIA, FR)	<i>Abstractions for rule-based models.</i>
	16h30	Paulevé Loic (LABRI, FR)	<i>Data-driven inference and control of ensembles of Boolean networks.</i>
	16h55	Romero Pamela (INRAE, FR)	<i>Computational modeling of biased signaling in G protein-coupled receptors.</i>
	17h10	Gouveia Filipe (Univ Lisboa, PT)	<i>ModRev - Repairing inconsistent Boolean logical models of Biological Regulatory Networks.</i>
	17h25	Tietgen Jan (CAU, DE)	<i>Comparison of discrete modelling methods for biological neural networks.</i>
Wednesday morning (May 27) 1st half <i>In memory of Claudine Chaouiya</i>	9h00	Thieffry Denis (ENS, FR)	<i>Scientific adventures with Claudine.</i>
	9h25	Remy Elisabeth (CNRS, FR)	<i>TBA</i>
	9h50	Janody Florence (I3S, PT)	<i>From bench to computational modelling and back: what we as biologists bring to the table.</i>
	10h15	Naldi Aurélien (IBM, FR)	<i>TBA</i>
Wednesday morning (May 27) 2nd half <i>In memory of Claudine Chaouiya</i>	11h10	Monteiro Pedro (Univ Lisboa, PT)	<i>Multicellular logical model composition with EpiLog.</i>
	11h35	Paul Ruet (IRIF, FR)	<i>TBA</i>
	12h00	Faure Adrien (Montpellier, FR)	<i>Path graphs, mirror states and functional circuits in asynchronous Boolean networks.</i>
	12h15	Roxo Patricia (I2M & ENS, FR)	<i>TBA</i>

