

Solvay Workshop on 'Physics of living systems: from molecules, to cells, to whole organisms'

Brussels, 2 - 4 December 2020

List of speakers and their presentation titles

Speakers	Titles
Stefano Di Talia	Waves and flows in embryogenesis and regeneration
James Ferrell	Self-organization of the cytoplasm
Kristina Ganzinger	Reconstituting signalling processes - Exploring information transfer in the immune system
Hernan Garcia	Dissecting transcriptional dynamics in development one burst at a time
Jordi Garcia-Ojalvo	Robust cell-fate decision in the early embryo via intercellular mutual inhibition
Stephan Grill	Guided mechanochemical self-organization
Anna Kicheva	Coordination of patterning and growth in spinal cord development
Aneta Koseska	Principles of biochemical computations at criticality
James Locke	Coordination of the plant circadian clock at the single cell level
Thierry Mora	Precision, adaptation and prediction in biological systems
Pieter Reinten Wolde	Optimal cellular sensing
Simone Reber	How complexity arises from molecular interactions
Sylvia Santos	Our first choices: decoding cellular signals during developmental transitions
Katharina Sonnen	Signalling dynamics controlling mouse embryo development
Jens Timmer	A multi-scale model to improve anemia treatment in cancer patients
Erik van Nimwegen	Stochastic gene regulation in bacteria
Nadine Vastenhouw	Transcription organizes euchromatin via microphase separation
Aleksandra Walczak	Decision making in early fly development