

Digital Twins in the Life Sciences: Turning Raw Data into Dynamic Models

Thursday 24 April 2025

Lecture Series: Overview (14:00 - 15:30)

-Conveners: Thorsten Auth; Sikha Ray

time	[id] title	presenter
14:00	[9] Digital Twins in the life sciences — from an engaged ecosystem to an incipient infrastructure	GERIS, Liesbet

Thursday 8 May 2025

Lecture Series: Introduction (14:00 - 15:30)

-Conveners: Daniel Walther; Axel Loewe

time	[id] title	presenter
14:00	[16] Acquisition, processing and provision of data in the domain of chemistry - and beyond	JUNG, Nicole

Thursday 15 May 2025

Lecture Series: Introduction (14:00 - 15:30)

-Conveners: Katrin Sturm-Richter; Thorsten Auth

time	[id] title	presenter
14:00	[11] Mechanistic models	FEDOSOV, Dmitry

Thursday 22 May 2025

Lecture Series: Introduction (14:00 - 15:30)

-Conveners: Thomas Gerhardy; Alexander Schug

time	[id] title	presenter
14:00	[21] Data-driven models	RULANDS, Steffen

Thursday 5 June 2025

Lecture Series: Introduction (14:00 - 15:30)

-Conveners: Daniel Walther; Sikha Ray

time	[id] title	presenter
14:00	[12] Building Trust in Medical Digital Twins: Bridging the Gap Between Research Models and Patient Outcomes	NIKLAS, Christian

Thursday 26 June 2025

Lecture Series: Introduction (14:00 - 15:30)

-Conveners: Katrin Sturm-Richter; Thorsten Auth

time	[id] title	presenter
14:00	[14] Uncertainty Quantification in Machine Learning	FORTUIN, Vincent

Thursday 10 July 2025

Lecture Series: Applications (14:00 - 15:30)

-Conveners: Daniel Walther; Alexander Schug

time	[id] title	presenter
14:00	[23] Building Digital Twins of Development and Disease	IBER, Dagmar

Thursday 17 July 2025

Lecture Series: Applications (13:30 - 15:00)

-Conveners: Alexander Schug; Thorsten Auth

time	[id] title	presenter
13:30	[24] Towards a Virtual Cell - the Need for Actionable Perturbation Models	THEIS, Fabian J.

Thursday 24 July 2025

Lecture Series: Applications (14:00 - 15:30)

-Conveners: Alexander Schug; Thomas Gerhardy

time	[id] title	presenter
14:00	[25] Bayesian Optimization for Digital Twins	FRIEDERICH, Pascal

Thursday 31 July 2025

Lecture Series: Applications (14:00 - 15:30)

-Conveners: Katrin Sturm-Richter; Axel Loewe

time	[id] title	presenter
14:00	[22] Next-Generation Surgery: AI-Driven Digital Twins for Personalized and Predictive Healthcare	SPEIDEL, Stefanie

Thursday 7 August 2025

Lecture Series: Applications (14:00 - 15:30)

-Conveners: Sikha Ray; Axel Loewe

time	[id] title	presenter
14:00	[26] The Virtual Humans Factory: Modelling and simulation for healthcare industries	AGUADO-SIERRA, Jazmin