Dynamics of biological systems: from viruses to populations

Wednesday, 23 September 2020

Morning Session: Viruses (10:10 - 13:00)

time	[id] title	presenter
10:10	[79] Emergence of COVID-19 – ground for its evolutionary success	Prof. KOCIK, Janusz
10:50	[78] SARS-CoV-2 Vaccine Development: Incorporating AI into epitope-based vaccine design	SKOCZYLAS, Piotr
11:20	Coffee Break	
11:40	[7] Modelling disease ecology	Prof. GHANBARNEJAD, Fakhteh
12:10	[15] Super-spreading events initiated the exponential growth phase of COVID-19 with R0 higher than initially estimated	KOCHAŃCZYK, Marek
12:40	[12] Social distancing in pedestrian dynamics and its effect on disease spreading	SAJJADI, Sina Mr HASHEMI, Alireza Dr GHANBARNEJAD, Fakhteh

Thursday, 24 September 2020

Morning Session: Cells I (10:00 - 13:00)

time	[id] title	presenter
10:00	[65] Modelling planar polarised cell behaviours in epithelial tissues	FLETCHER, Alexander
10:40	[16] Epithelial dynamics during mouse neural tube development	Mrs BOCANEGRA-MORENO, Laura
11:00	[11] Active organelle dynamics facilitates precise sensing of fluctuating signals	Mr MEIGEL, Felix Jonathan
11:20	Coffee Break	
11:40	[75] Cell Fate Clusters in ICM Organoids Arise from Cell Fate Heredity & Division – a Modelling Approach	LIEBISCH, Tim
12:00	[14] Setting up the epigenome: a collective phenomenon	RULANDS, Steffen
12:30	[66] Stochasticity and mechanics of stem cell fate in intestinal crypts	HANNEZO, Edouard

Friday, 25 September 2020

Morning Session: Populations (10:00 - 13:00)

time	[id] title	presenter
10:00	[62] Intermediate social bonds and the evolution of reproductive cooperation	DROBNIAK, Szymon
10:40	[5] Specialization and plasticity in a primitively social insect	ALSINA, Adolfo
11:00	[70] A part□dependent account of biological individuality: why holobionts are individuals and ecosystems simultaneously	Dr SUÁREZ, Javier STENCEL, Adrian
11:20	Coffee Break	
11:40	[58] Pattern formation in a predator-prey model with defense in fearful prey	MISHRA, Purnedu
12:00	[60] Uncertainties and epidemics spread	DYBIEC, Bartlomiej
12:30	[13] How unicellular yeast form a community for the benefit of long-term survival.	WLOCH-SALAMON, Dominika