Schedule of plenaries, parallel sessions and minisymposia

Saturday June 14

Time \ Room	**Pascal**
09.00–11.30	M34: Developing Multi-Cell Development and Biomedical Virtual-Tissue Simulations using CompuCell3D – Tutorial
10.00–10.30	*Coffee*
10.30–13.00	M34 cont.
13.00–14.00	*Lunch*
14.10–15.30	M34 cont.
15.30–16.00	*Coffee*
16.00–19.00	M34 cont.

Sunday June 15

Time\Room	RunAn	Ledningsrummet	Valdemar	Ascom	Catella	Pascal
09.00–11.30		M11: Applications of statistical physics in quantitative biology	M39: Blood Flows and Applications			
11.40–13.00				M10: Modeling Viral Hepatitis Dynamics: from bench to bedside		
14.00–15.30	**Opening** **Springer Award** **Plenary: Mathisca de Gunst, Statistics for networks with a view towards neuroscience**					
15.30–16.00	*Coffee*					
16.00–19.00	M10 cont.	M11 cont.	M41: Position-jump models of biological processes on irregular lattices	M40: Unifying Evolutionary Theory: Connecting Adaptive Dynamics, Popula-tion Genetics & Quantitative Genetics	16.00–20.00 M35: Current Mathematical Modelling of Cyclic Populations	M38: Mathematical Modeling at the Cellular and Tissue Levels

Monday June 16

Time\Room	RunAn	Ledningsrummet	Valdemar	Ascom	Catella	Pascal	Euler
09.00–10.00	**Plenary: Sebastian Schreiber, To persist or not to persist? On the mathematics of species coexistence**						
10.00–10.30	*Coffee*						
10.30–11.30	**Plenary: David Rand, Dynamics and design principles in cell cycles, clocks and signals**						
11.40–13.00	Epidemics 1: Dynamics	**Begins at 9.00** M11 cont.	**Begins at 9.00** M15: Game theory in ecology and evolution	M7: Mathematical Modelling of Retinal Plasticity and Vascularization	M8: Mathematical modeling of biological regeneration	M28: Understanding the metastatic cascade in cancer: insights from mathematical models	Evolution and Populations Genetics 1: Evolution of resistance
13.00–14.00	*Lunch*						
14.10–15.30	Evolution and Populations Genetics 4: Branching processes 1	M11 cont. **Continues in room Mallvinden 16.00–19.00**	M15 cont.	M7 cont.	M8 cont.	M28 cont.	M4: Spatial moment techniques for modelling biological processes
15.30–16.00	*Coffee*						
16.00–19.00	M6: Spatio-temporal modelling of gene regulatory networks and intracellular signaling pathways	M31: Sensitivity and robustness in regulatory networks	M5: Ecology and evolution of infectious diseases	M30: Mathematical Multiscale Modeling of Cancer Cell Migration	M21: Numerical methods for high-dimensional problems in biology	M42: AstraZeneca	M4 cont.

Monday June 16

Time\Room	MV:H11	MV:H12	MV:F21	MV:F23	MV:F26	MV:F31	MV:F33
09.00–10.00	**Plenary: Sebastian Schreiber, To persist or not to persist? On the mathematics of species coexistence**						
10.00–10.30	*Coffee*						
10.30–11.30	**Plenary: David Rand, Dynamics and design principles in cell cycles, clocks and signals**						
11.40–13.00	Population Dynamics and Conservation Biology 1: Popu-lations models 1	M25: Community evolution	Cancer 1: Evolutionary and genetic dynamics	Developmental Biology 1: Synchronization	Regulatory Networks 1: Noise, bistability, and stochastics	Physiology 1: Spatio-dynamical models	Evolution and Populations Genetics 2: Adaptation 1
13.00–14.00	*Lunch*						
14.10–15.30	Population Dynamics and Conservation Biology 2: Structured populations	M25 cont.		Cancer 2: Models of tumour invasion 1	M37: Patterning and evolution of biological sur-faces	Evolution and Populations Genetics 3: Evolutionary games	Epidemics 2: Stochastic models 1
15.30–16.00	*Coffee*						
16.00–17.00	Developmental Biology 2: Propagation	M20: Modeling Microbial eco-system using (Meta-)Omic data	Epidemics 3: Deterministic models 1	Cell and Tissue Biophysics 1 : Aggregation	M37 cont.	Ecology 1: Random walks	Population Dynamics and Conservation Biology 3: Optimization
17.00–19.00			M23: Mathema-tical modelling of stem cell renewal and differentiation				

Tuesday June 17

Time\Room	RunAn	Ledningsrummet	Valdemar	Ascom	Catella	Pascal	Euler
09.00–10.00	**Plenary: Matthias Birkner, Multiple merger coalescents in population genetics**						
10.00–10.30	*Coffee*						
10.30–11.30	**Plenary: Marie Doumic, Modelling the Kinetics of Protein Polymerization in Amyloid Diseases**						
11.40–13.00	M18: Stochastic processes of mutation, selection and growth in cancer: models and data	Population Dynamics and Conservation Biology 4: Miscellaneous	Cell and Tissue Biophysics 2: Signalling	M17: Data-driven modeling of epidemics	Physiology 2: Distributed systems	M13: Plant Modelling	Ecology 2: Diffusion and beyond
13.00–14.00	*Lunch*						
14.10–15.30	M18 cont.	Population Dynamics and Conservation Biology 5: Population models 2	Cell and Tissue Biophysics 3: Cytoskeleton and mobility	M17 cont.	M19: Recent advances in the mathematical modeling of glioma progression and invasion	M13 cont.	Epidemics 5: Deterministic models 2
15.30–16.00	*Coffee*						
16.00–17.00	Population Dynamics and Conservation Biology 6: Age-structured populations	Epidemics 6: Agent based models		M29: Modeling of Protein Aggregation and Transmission in Amyloid Diseases	M19 cont.	M13 cont.	M9: Algebraic methods for Biochemical Reaction Networks
17.00–19.00	**ESMTB General Assembly, RunAn**						

Tuesday June 17

Time\Room	MV:H11	MV:H12	MV:F21	MV:F23	MV:F26	MV:F31	MV:F33
09.00–10.00	**Plenary: Matthias Birkner, Multiple merger coalescents in population genetics**						
10.00–10.30	*Coffee*						
10.30–11.30	**Plenary: Marie Doumic, Modelling the Kinetics of Protein Polymerization in Amyloid Diseases**						
11.40–13.00	Bio-imaging	Immunology 1: In vivo	Cancer 3: Spatial models 1	Epidemics 4: Stochastic models 2	Regulatory Networks 2: Gene expression and regulation	Evolution and Populations Genetics 5: Selection	Evolution and Populations Genetics 6: Branching processes 2
13.00–14.00	*Lunch*						
14.10–15.30	Bio-engineering	Cancer 4: Models of tumour invasion 2	Developmental Biology 3: Growing networks	Ecology 3: Seasons	Regulatory Networks 3: Dynamics and feedback	Evolution and Populations Genetics 7: Adaptation 2	Evolution and Populations Genetics 8: Miscellaneous
15.30–16.00	*Coffee*						
16.00–17.00		Cancer 5: Spatial models 2	M16: Mathematical modeling of Genetic and Biochemical Circuits	Developmental Biology 4: Collective movement	Physiology 3: Energy expen-diture, insulin secretion and wound healing	Regulatory Networks 4: Bistability, cell cycle control, and signaling	Immunology 2: ODEs and beyond
17.00–19.00	**ESMTB General Assembly, RunAn**						

Wednesday June 18

Time\Room	RunAn	Ledningsrummet	Valdemar	Ascom	Catella	Pascal	Euler
09.00–10.00	**Plenary: Tom Britton, Estimating R_0 in emerging diseases: the effect of population structure is small**						
10.00–10.30	*Coffee*						
10.30–11.30	**Plenary: Mikael Fortelius, Counting fossils – do you really need mathematics for that?**						
11.40–13.00	11:40-15:30 M32: Collective motion of about 100 particles	M26: Mathematical modeling of tumor immunology and therapy	M14: Zooming in and out: connecting individual and population behavior	Regulatory Networks 6: Cartilage and miRNA	Ecology 4: Biodiversity	M33: Modeling Development, Homeostasis and Disease of Tissues Using the Cellular Potts Model (CPM)	Cell and Tissue Biophysics 4: Tissue-level modelling
13.00–14.00	*Lunch*						
14.10–17.00	**Excursion**						

Wednesday June 18

Time\Room	MV:H11	MV:H12	MV:F21	MV:F23	MV:F26	MV:F31	MV:F33
09.00–10.00	**Plenary: Tom Britton, Estimating R_0 in emerging diseases: the effect of population structure is small**						
10.00–10.30	*Coffee*						
10.30–11.30	**Plenary: Mikael Fortelius, Counting fossils – do you really need mathematics for that?**						
11.40–13.00	Population Dynamics and Conservation Biology 7: Conservation strategies	Evolution and Populations Genetics 9**:** Structured populations	Epidemics 7: Stochastic models 3	Epidemics 8: Tuberculosis and hepatitis	Cancer 6: Modelling therapies 1	Regulatory Networks 5: Distributed systems	Evolution and Populations Genetics 10: Ancestral structure
13.00–14.00	*Lunch*						
14.10–17.00	**Excursion**	14.10–15.30 M32 cont.					

Thursday June 19

Time\Room	RunAn	Ledningsrummet	Valdemar	Ascom	Catella	Pascal	Euler
09.00–10.00	M1: Clinically Relevant Mathematical Models of Cancer	M3: Multi-scale Modeling Plat-forms in Multicellular Systems Biology	M27: Spatial Models in Cancer Biology	Population Dynamics and Conservation Biology 8: Competition	M2: Multilocus models in structured populations: migration, selection, and recombination	M12: Spatio-Temporal Heterogeneity	M24: Immuno-epidemiological models
10.00–10.30	*Coffee*						
10.30–11.30	M1 cont.	M3 cont.	M27 cont.	Ecology 6: Plasticity	M2 cont.	M12 cont.	M24 cont.
11.40–13.00	Evolution and Populations Genetics 12**:** Evolutionary dynamics			Cell and Tissue Biophysics 6: Modelling of cell components	Developmental Biology 5: Reaction	Regulatory Networks 9: Stochastic mechanisms	
13.00–14.00	*Lunch*						
14.00–15.00	**Plenary: Trevor Graham, Quantifying clonal evolution in the human colon**						
15.00–15.30	*Coffee*						
15.30–17.15	**Reinhard Heinrich awardee talks: Stefan Höhme, Christoforos Hadjichrysanthou** **Closure**						

Thursday June 19

Time\Room	MV:H11	MV:H12	MV:F21	MV:F23	MV:F26	MV:F31	MV:F33
09.00–10.00	M36: Rapid adaptation to novel environ-ments	Ecology 5: Game theory	Cancer 7: Models of tumour invasion 3	Epidemics 9: Deterministic models 3	Physiology 4: Plants	M22: Lymphangiogenesis in Tumours: From Myth to Reality	Regulatory Networks 7: Signalling processes
10.00–10.30	*Coffee*						
10.30–11.30	M36 cont.	Population Dynamics and Conservation Biology 9: Predator-prey systems	Cancer 8: Spatial models 3	Epidemics 10: Deterministic models 4	Cell and Tissue Biophysics 5: Organ-level modelling	M22 cont.	Regulatory Networks 8: Computational methods
11.40–13.00		Population Dynamics and Conservation Biology 10: Population and disease models	Regulatory Networks 10: Inference	Epidemics 11: HIV, Dengue and Transmission	Cancer 9: Modelling therapies 2		Evolution and Populations Genetics 11**:** Optimal fitness
13.00–14.00	*Lunch*						
14.00–15.00	**Plenary: Trevor Graham, Quantifying clonal evolution in the human colon**						
15.00–15.30	*Coffee*						
15.30–17.15	**Reinhard Heinrich awardee talks: Stefan Höhme, Christoforos Hadjichrysanthou** **Closure**						