

# ECMTB Posters

(The maximal size of posters is 1x1 m)

V. Baudrot, [Fox-Voles Interactions: Selection and Dynamical Properties of a Multi-Species Functional Response](#)

H.-C. Jeong, [Emergence of Cooperation with chain-reaction-extinction](#)

S. Belloni, [Macroscale mathematical models for E.Colo motion](#)

J.-M. Park, [Evolution dynamics of a model for gene duplication under adaptive conflict](#)

K. Buszko, K. Stefański, [Period-length estimate of Lyapunov exponent for probing transient chaos in model of population dynamics](#)

M. Soledad Castaño, H. Guis, J. Vaillant, T. Balenghien, J.-C. Délecolle, T. Baldet, D. Pleydell, [Analysis of ecological time series using state-space models](#)

A. B. Hakem, [Impact of extended diapause on the rate of invasion of a population of triatomine with an Allee effect](#)

J. Toor, [Host-Parasite Evolution with a Predator](#)

K. C. Khosla, D. Nichol, J. Scott, [Effect of Neutral Spaces in a Markov Chain Model of Bacterial Evolution](#)

L. Hindersin, [Exploring the dynamics of evolution on small networks](#)

J.-H. Trösemeier, S. Lipp, H. Lößner, I. Koch, C. Kamp, [The Right Word in the Right Place? Using an evolutionary model to link codon usage bias to an organism's fitness](#)

M. C. Pereira [How can we approach reaction-diffusion systems with concentrated terms on the rough border of a thin channel?](#)

A. Alsuwaid, J. T. Choon Meng, Y. E. Pearson, [Extracting T-lymphocyte cell dynamics in biomimetic microenvironments](#)

Y. E. Pearson, J. T. Choon Meng, [Automated multi-cell segmentation and tracking from live bioimaging datasets](#)

D. Breuer, [The plant cytoskeleton as a transportation network](#)

L. Villarín Pildaín, V. Kumar, F. Matthäus, [Simultaneous modeling and clustering of multivariate time series - application to an animal model of alcohol addiction](#)

B. Bruggemeier, M. A. Porter, S. Goodwin, [A simple decision making model for courtship song of \*Drosophila melanogaster\*](#)

M. Kücken, [The mechanical and the neurogenic hypothesis for fingerprint formation](#)

F. Kazantsev, V. V. Mironova, [The tool to study plant hormone auxin distribution in the plant root](#)

K. Blazakis, [Optimal Control of 2D Cell Migration](#)

K. Uchinomiya, Y. Iwasa, [Optimal resource allocation in the plant-fungi mutualism for a growing system](#)

V. Jonsson [A hierarchical Bayesian model for gene ranking in metagenomics based on differential abundance](#)

J. Hearn, [Ecological Traps: Modeling habitat selection for mobile animals in heterogeneous landscapes](#)

K. Gaythorpe, B. Adams, [Treatment provision in spatially structured models for environmentally transmitted infections](#)

M. Marva, [An opportunistic diseases model](#)

I. Takaidza, [Analysis of Labour Productivity in the presence of substance abuse](#)

M. T. Seweryn, [Limit Theorems for Renyi Entropy and Divergence with Applications to DNA Diversity Analysis](#)

S. Khailaie, P. A. Robert, T. Arras, J. Hühn, M. Meyer-Hermann, [A signal integration model of thymic selection and natural regulatory T cell commitment](#)

H. Pennington, N. Krishna, R. Schugart, C. Coppola, [A Mathematical Model for the Interaction of the Proteins MMP-1, TIMP-1, and ECM in a Wound](#)

J. M. Graham, [The Role of Osteocytes in Bone Turnover: A Mathematical Model](#)

S. Robaina Estévez, Z. Nikoloski, [Generalized framework for cell-type and condition-specific metabolic models](#)

L. Bowden, [A simple model of wound healing in normal and diabetic mice](#)

A. Bianchi, [A Mathematical Model for Lymphangiogenesis in Wound Healing](#)

M. Taghipoor, F. Gondret, J. VanMilgen, [A mathematical model to describe the flexibility of energy reserves at cellular scale](#)

J. Belmonte-Beitia, [Optimal control in a mathematical model of low grade glioma](#)

D. Stichel, [Cell migration modeling and data analysis in lung cancer](#)

K. N. Yamamoto, H. Haeno, [Evolution of resistance to platinum drugs and PARP inhibitors in BRCA-associated cancers](#)

M. Mohr, [Mathematical modelling of the dynamics of multiple myeloma cell accumulation](#)

H. Haeno, Y. E. Maruvka, Y. Iwasa, F. Michor, [Stochastic tunneling of two mutations in a population of cancer cells](#)

C. Stötzl, F. Topcu-Alici, S. Röblitz, H. Siebert, [Logic-based models and ODEs – a bidirectional modeling approach](#)

B. Hepp, A. Gupta, M. Khammash, [Adaptive Hybrid Simulations for Multiscale Stochastic Reaction Networks](#)

T. Vejchodsky, [Reduction of biochemical systems by delayed quasi-steady state assumptions](#)

G. B. Overall, [Extending the Limits of Bifurcation Analysis: an Illustration from Yeast Glycolysis](#)

J. Klosa, [Intrinsic and extrinsic fluctuations in a spatiotemporal oscillatory system](#)

K. Novikov, A. Romanyukha, [Receptor-mediated endocytosis and intracellular transport: self-organization, tasks and limitations. A mathematical model approach](#)

M. Bock, [On the dome formation during Zebrafish epiboly](#)

R. Beyer, [Pattern Formation in a Generalized Phyllotactic System](#)

- I. A. Denisov, P. I. Belobrov, [The method of additional particles for models of self-assembly in multilevel biological systems](#)
- A. Bate, Frank M. Hilker, [Disease in group-defending prey can benefit predators](#)
- M. Irvine, [Fractal spatial statistics as a heuristic for dynamic persistence in vegetative ecosystems](#)
- S. Bhattacharya, [Markov chain model to explain the dynamics in human depression](#)
- H. M. Djouosseu Tenkam, [Global solvability and stability of equilibrium of multi-species model with cross diffusion](#)
- G. Santos Rosales, [Mathematical modelling of the dynamics and the role of the lipid composition in Alzheimer's disease](#)
- M. Vieira Kritz, [4-dimensional nature of living molecular systems](#)
- J. Amador, [A stochastic epidemic model for computer viruses with antidotal computers](#)
- P. Szymańska, [Computational Model of the Autophagy-Translation Switch](#)
- N. Flores Castillo, [Modeling Distribution of Reads from Leukemic Cells DNA through Mixture of Truncated Poisson Distributions](#)
- M. Sadovsky, [Super-symmetry in genomes and its evolution](#)
- M. Sadovsky, [Long-scale structures in genome](#)
- J. Panovska-Griffiths, [Using mathematical modelling to design an optimal HIV prevention intervention among female sex workers: insights from Avahan AIDS Initiative in India](#)
- P. McMenemy, Impact of Depuration Dynamics On Norovirus Loads Within Pacific Oysters
- J. Amador, [A stochastic epidemic model for computer viruses with antidotal computers](#)
- A. Manhart, How do cells move?