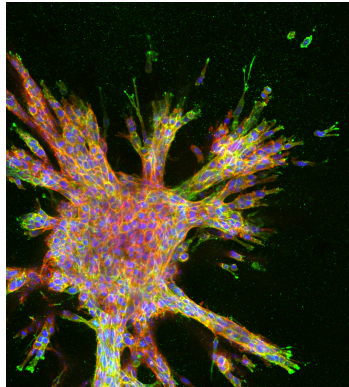


SEMINAR IN MATHEMATICAL BIOLOGY SUMMER TERM 2018

THEORIES OF CELL AGGREGATION AND INVASION



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OBJECTIVE

Mathematical biology is an interdisciplinary scientific research field aiming at the mathematical representation, modeling and analysis of biological processes. This seminar is focused on theories and mathematical models of cell aggregation and invasion. These processes are crucial in biological development, regeneration, wound healing and cancer progression but remain poorly understood. Mathematical models presented in the seminar include on and off-lattice agent-based models and differential equations.

The seminar is intended for undergraduate/graduate students and researchers in mathematics, physics, biology, medicine, and computer science who are interested in this highly interdisciplinary research area. Each participant is expected to give a 30 min presentation centered around a recent high-impact scientific publication.

Time and location

The seminar will take place on 4 Monday afternoons, 14.00-17.00:

May 28, June 4, June 11, June 18

Location: APB-1096 and APB-2101, Computer Science Dept. of TU Dresden at Nöthnitzer Str. 46

Kickoff meeting and distribution of talks

April 23, 13.00-14.00, APB-1096

Organizers

Anja Voß-Böhme, Fakultät Informatik/Mathematik, HTW Dresden

Simon Syga, Andreas Deutsch, ZIH, TU Dresden

Seminar website

<https://imc.zih.tu-dresden.de/imc/index.php?page=seminars>

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