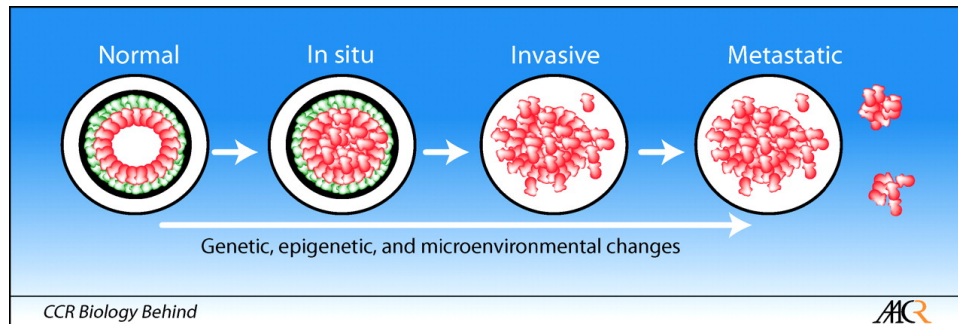


INVITATION TO SEMINAR (SOMSEM 2019)

MATHEMATICS OF TUMOUR PROGRESSION



POLYAK, *CLIN. CANC. RES.* 2008, 14(2)

OBJECTIVE

Tumour progression results from ecological and evolutionary processes at the cell level. Pheno- and genotypically heterogeneous tumour cells interact with each other, adapt to and remodel their microenvironment and invade distant spatial regions by exploiting fitness trade-offs between proliferation and migration. **It turns out that mathematical models can yield insights into the spatio-temporal dynamics of tumour progression.** The main focus of the seminar is the introduction of mathematical models (including game theory, Moran and cellular automaton models) addressing key steps of tumour progression by means of oral presentations and discussions. The final seminar program results from the kickoff meeting.

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.

TIME AND LOCATION

Time: four Friday afternoons **13.30-16.30: May 3, 10, 24, June 7**

Location: INF-1096, Faculty of Computer Science, TU Dresden, Nöthnitzer Str. 46

KICKOFF MEETING AND DISTRIBUTION OF TALKS

April 26, 14.00-15.00, INF-1096

ORGANISERS

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SEMINAR WEBSITE

<https://goo.gl/KbGJXF>

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