

Dates & Topics	Titles of Subtopics (mentors)	Speakers (literature)
24. May 2016 Biological introduction: tumour heterogeneity, plasticity and selection	<ol style="list-style-type: none"> 1. Mechanisms and regulation of tumor progression, evolution and metastasis (Falk Zakrzewski) 2. Tumour heterogeneity and cancer cell plasticity (Falk Zakrzewski) 3. Epithelial plasticity: A common theme in embryonic and cancer cells (Falk Zakrzewski) 	<p>Rene Hochmuth (Paper)</p> <p>Cindy Hahn (Paper)</p> <p>Stefanie Hamann (Paper)</p>
7. June 2016 Temporal and spatial Moran models	<ol style="list-style-type: none"> 1. Estimating the risk of progression for pilocytic astrocytoma (Thomas Buder) 2. Cancer initiation in spatially structured tissue (Anja Voß-Böhme) 3. Waiting time to cancer under multiple sequential mutations (Anja Voß-Böhme) 	<p>Tom Gießgen (Paper)</p> <p>Angelika Hirrle (Paper 1, Paper 2)</p> <p>Frank Morheer (Paper)</p>
21. June 2016 Game theory models	<ol style="list-style-type: none"> 1. The ecology of cancer from an evolutionary game theory perspective: a review (Thomas Buder) 2. Heterogeneity: Evolutionary game theory of growth factor production (Thomas Buder) 3. Therapy: Cancer treatment as a game (Thomas Buder) 	<p>Moritz Zeidler (Paper)</p> <p>Susanne Walther (Paper)</p> <p>Simon Syga (Paper)</p>
5. July 2016 Cellular automaton models	<ol style="list-style-type: none"> 1. Invasive tumor growth in heterogeneous microenvironments (Andreas Deutsch) 2. Radio-therapy modeling (Andreas Deutsch) 3. Emerging Allee effect is critical for tumor initiation and persistence (Anja Voß-Böhme) 	<p>Josué Manik Nava Sedeño (Paper)</p> <p>Juan Carlos Alfonso</p> <p>Babis Hatzikirou (Paper 1, Paper 2)</p>

Mentors: Thomas Buder: thomas.buder@tu-dresden.de
Andreas Deutsch: andreas.deutsch@tu-dresden.de
Barbara Klink: Barbara.Klink@uniklinikum-dresden.de
Anja Voß-Böhme: anja.voss-boehme@tu-dresden.de
Falk Zakrzewski: falk.zakrzewski@tu-dresden.de