

SEMINAR IN MATHEMATICAL BIOLOGY (WS 2014/15)

SIMPLE MODELS OF BIOLOGICAL COMPLEXITY



Session	Title	Speaker
Development 17 November 14:00-17:00	Introduction Planarian body plan Boolean gene regulation	Lutz Brusch Michael Kücken Dirk Walther / Rafael Penaloza
Cell migration 8 December 14:00-17:00	Go in swarms Go or grow Go or adhere	Jörn Starruß Katrin Böttger Carsten Monte
Regeneration 19 January 14:00-17:00	Axolotl Planarian cell polarity Liver	Fabian Rost Karl Hoffmann Stefan Otte
Cancer 2 February 14:00-17:00	Biophysics of tumor growth Moran model Vascular tumor growth	Angelika Hirrlinger Thomas Buder Juan Carlos L. A.
Organs 5 February 14:00-17:00	Liver architecture Liver bile secretion Bone architecture Angiogenesis	Walter de Back Oleksandr Ostrenko Robert Müller Alvaro Köhn Luque

Location: INF-1096, but on 5 Feb. 2015 in INF-1004

Contact: Prof. Dr. Andreas Deutsch, andreas.deutsch@tu-dresden.de