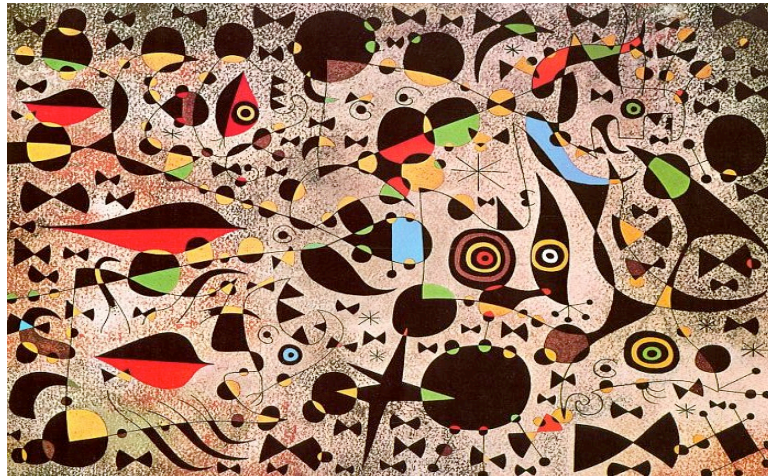


# PROGRAM OF SEMINAR IN MATHEMATICAL BIOLOGY (WS 2013/2014)

## COMPUTATIONAL SYSTEMS BIOLOGY OF CANCER



SEMINAR DATES & TOPICS	TITLES OF SUBTOPIC (TUTOR)	SPEAKERS
25 NOVEMBER, 2013 <b>DATA RESOURCES AND ANALYSIS</b>	1A <i>Introduction to experimental technologies for molecular characterization of tumors</i> 1B <i>Public data resources storing molecular profiles of tumors (Barbara)</i> 1C <i>Basic bioinformatics methods for the analysis of molecular tumor data (Michael)</i>	Barbara Klink Khalil Abouelaradat Sebastian Weitz
9 DECEMBER, 2013 <b>SIGNALING NETWORKS</b>	2A <i>Introduction to signaling networks in cancer and public resources (Michael)</i> 2B <i>Network-based identification of disease causing genes and stratification of tumors (Michael)</i> 2C <i>Computational methods for inferring signaling networks (Michael)</i>	Betty Friedrich Simon Becher
20 JANUARY 2014 <b>INTRODUCTION TO MATHEMATICAL MODELING</b>	3A <i>Introduction to model formalisms (Alvaro)</i> 3B <i>Intracellular signaling: cell cycle in normal and cancer cells (Alvaro)</i> 3C <i>Avascular tumour growth (Haralambros)</i>	Majid Abedi Karl Hoffmann Georgios Lolas
3 FEBRUARY, 2014 <b>MULTISCALE MATHEMATICAL MODELS</b>	4A <i>Multiscale modeling of cancer: challenges and perspectives (Haralambros)</i> 4B <i>Tumor invasion (Haralambros)</i> 4C <i>Tumor angiogenesis (Alvaro)</i>	Martin Seyrich Markus Koch Robert Müller
TIME AND LOCATION 14.00 - 17.00 , INF 1096, Dept. of Computer Science, Nöthnitzer Str. 46		
SEMINAR WEBSITE <a href="http://www.tu-dresden.de/die_tu_dresden/zentrale_einrichtungen/zih/lehre/bio/ws1314_sem">http://www.tu-dresden.de/die_tu_dresden/zentrale_einrichtungen/zih/lehre/bio/ws1314_sem</a>		
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