



EINLADUNG
zum
ZIH - KOLLOQUIUM

Title: Modeling Tumor Growth and Therapy

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Abstract:

Crucial to the development of a successful anticancer therapy is a correct understanding of the key processes in tumor growth. The macroscopic complexity of cancer emerges from a multiplicity of cooperative and competitive events taking place at the microscopic scale. Some current macroscopic and mesoscopic approaches to the modeling of cancer growth will be discussed, indicating some of their advantages and limitations. The results of our simulational work with cancer subspecies, whose competitive dynamics is closely related to the development of acquired resistance will be presented. Finally, a model for immunotherapy, which considers the effects of spatial heterogeneity including lymphocyte migration towards the tumor and the possible pinning of tumor growth by immune cells, will be discussed.

Ort: Informatik-Neubau, Nöthnitzer Str. 46, INF 1096

Zeit: Freitag, den 6. Juli 2007, 11:00 Uhr

gez. Prof. Dr. Wolfgang E. Nagel