# Modelling Cellular Systems with Applications to Tumour Growth

5-7 September 2006

workshop organized with the support of Marie Curie Actions - 6th Framework Programme " Modelling, Mathematical Methods and Computer Simulation of Tumor Growth and Therapy"

### TUESDAY

Kinetic equations		
15:00 - 15:20	V. I. Gerasimenko	
	Mathematical problems of the derivation of nonlinear	
	kinetic equations	
15:25 - 15:45	T. Ryabukha	
	Method of regularization of cumulant reprezentation	
	of solution for BBGKY hierarchy	
15:45 -16:00	Coffee break	

### Tumor growth

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16:00 -16:20	A. Marciniak-Czochra (joint work with M. Kimmel)
	Dynamics of growth and signaling along linear and
	surface structures in very early tumours
16:25 -16:45	M. Aubert (joint work with M. Badoual, S. Féreol,
	C. Christov, B. Grammaticos)
	Modelling the migration of glioma cells with a cellular
	automaton
16:50 -17:10	M. Bodnar (joint work with U. Foryś)
	Three models of tumour growth with time delay with
	comparison to experimental data
17:10 -17:25	Coffee break

#### Kinetic equations

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17:25 - 17:45	Z. Artemychenko
	On the kinetic equations of inelastically interacting particles
17:50 -18:10	V. Shtyk
	On the solution representations of the initial value problem
	to the quantum BBGKY hierarchy

# THURSDAY

35.3			
Mathematical modelling			
15:00 - 15:20	T. Lorenz		
	Evolution equations for arbitrary shapes – a new tool		
	of multicellular modelling!?		
15:25 - 15:45	S.V. Azarina		
	On stochastic differential inclusions in mean derivatives		
15:50 - 16:10	M. Ptashnyk		
	Modeling of hairy root growth		
16:10 -16:25	Coffee break		
Phases of tumor biology			
16:25 -16:45	R. Kowalczyk		
	On some Keller-Segel's type models arising from		
	vasculogenesis model		
16:50 -17:10	C. Morales-Rodrigo		
	On a model related to tissue invasion		
17:10 -17:25	Coffee break		
Tumor thera	ару		
17:25 -17:45	M. Albano (joint work with V. Giorno, C. Saturnino)		
	Tumor growth: immune response and drug resistance		
17:50 -18:10	N. Kalev-Kronik, U. Forys (joint work with Y. Kogan,		
	V. Vainstein, Z. Agur)		
	Mathematical model predicts an effective immunotherapy		
	for glioblastoma multiforme		
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