

March 15th to 21st, 2009
workshop on mathematical methods and
modeling of biophysical phenomena
Angra dos Reis, Rio de Janeiro, Brazil

We hereby certify that, **Alexander Lorz**, *University of Cambridge*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Collective motion of swimming microorganisms”.

Angra dos Reis, March 19, 2009.



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Angra dos Reis, Rio de Janeiro, Brazil

We hereby certify that, **Alexandre Linhares**, *Fundação Getúlio Vargas* , participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Some Properties of the Human Mind and the Space $\{0,1\}^N$ ”.

Angra dos Reis, March 19, 2009.



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We hereby certify that, **Anna Marciniak-Czochra**, *Universität Heidelberg*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Multiscale mathematical models of pattern formation in cell systems”.

Angra dos Reis, March 19, 2009.



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We hereby certify that, **Benoit Perthame**, *Univ. Pierre et Marie Curie*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Mathematics of Pattern Formation in Biosciences”.

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We hereby certify that, **Chiara Mocenni**, *University of Siena*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Reconstruction of bifurcation curves of the Complex Ginzburg-Landau equation using Generalized Recurrence Quantification Analysis “.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Christian Schmeiser**, *University of Vienna*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Modelling and imaging the actin cytoskeleton in lamellipodia of fish keratocytes and fibroblasts “.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Cristina Vilma Turner**, *Universidade Nacional de Cordoba - Famaf*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Tumor location and parameters estimation by tomography”.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Dietmar, Oelz**, *University of Vienna*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “On the evolution of single Actin-filaments under the curve straightening flow “.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Diogo Manuel Barros Magalhães da Rocha Peixoto**, *Fac. Ciências Univ. Lisboa*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Chronic Myeloid Leukemia in Terrestrial Mammals: A mathematical description. Diogo Peixoto”.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Edgardo Brigatti**, *Centro Brasileiro de Pesquisas Físicas*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Pattern formation in a predator-prey system with local interactions”.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Emiliano Sparacino**, *University of Siena*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “On Reaction-Diffusion Ecological Models in Domains with Rough Boundaries “.

Angra dos Reis, March 19, 2009.



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We hereby certify that, **Fabio Augusto da Costa Carvalho Chalub**, *Univ. Nova de Lisboa*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “From discrete to continuous models in evolutionary dynamics”.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Greg Huber**, *Univ. of Connecticut, Health Center*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Diffusion in two-dimensional crowded spaces”.

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We hereby certify that, **Ivan Berdakin**, *Universidad Nacional de Córdoba*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “An allosteric model for ligand-activated ion channel dynamics “.

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We hereby certify that, **Jair Koiller**, *Fundação Getúlio Vargas*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Engineering-inspired biology: cyanobacteria and diatoms”.

Angra dos Reis, March 19, 2009.



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We hereby certify that, **Jean Clairambault**, *Institut National de Recherche en Informatique et en Automatique*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Giving medical sense to mathematical modelling of cell proliferation and its control: challenges from cancer therapeutics “.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Jorge M. Pacheco**, *Universidade de Lisboa* , participated in the
“**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at
Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following
work: “Modeling hematopoiesis in health and disease - (Minicourse 2) “.

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We hereby certify that, **Juan Pablo Agnelli**, *Universidade Nacional de Cordoba - Famaf*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Classification through density estimation: somenew ideas “.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Julie C. Mitchell**, *University of Wisconsin - Madison*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Structural Studies of Protein-Protein and Protein-DNA Interactions”.

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We hereby certify that, **Klemens Fellner**, *University of Cambridge*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “On a non-local aggregation-repulsion model”.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Leonardo de Medeiros Maier**, *Hospital Municipal Rocha Maia - Laboratório*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “A theoretical model for normal and pathological erythrocytes”.

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We hereby certify that, **Leonardo Ornella**, *Consejo Nacional de Investigaciones Cientificas y Tecnicas* , participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena,**” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Applications of Machine Learning in Ecological Modeling. “.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Lucas M. Barberis**, *Facultad de Matemática, Astronomía y Física*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “A Model for the Ontogenetic Growth of Interacting Individuals”.

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We hereby certify that, **Lucas Martins Stoleran**, *Universidade Federal do Rio de Janeiro*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Game Theory and Population Dynamics”.

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We hereby certify that, **Marcelo Cardoso dos Reis Melo**, *Universidade Federal do Rio de Janeiro*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Self-organization phenomena in protein folding”.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Marco Di Francesco**, *University of Aquila*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portogalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Measure valued solutions, finite time blow up, confinement and multiple blow up for nonlocal transport PDE's on R^n ”.

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We hereby certify that, **Marcos Gaudiano**, *Universidade Nacional de Cordoba - Famaf*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Tumor Diffusion in the Direction of a Same Cellular Pattern.”.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Mario Esteban Di Salvo**, *Universidad Nacional de Córdoba- Fcefn*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Microorganism locomotion: How speed-dependent nutrient absorption can enhance bacterial motility “.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Marta Daniela de Almeida Santos**, *Fac. Ciencias Univ. Lisboa*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Social diversity promotes the emergence of cooperation in public goods games “.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Max Oliveira de Souza**, *Universidade Federal Fluminense*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Global Analysis and Multiscaling Asymptotics for a Vector-Borne Epidemic Model “.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Michael Ward**, *Univ. of British Columbia*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Asymptotic Analysis of Narrow Escape Problems for Diffusion in Microdomains”.

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We hereby certify that, **Pedro Doria Maia**, *Universidade Federal do Rio de Janeiro*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “New Mathematical Approches to Recover Birth Rates of *E. coli*in Structured Population Dynamics “.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Pedro Telles Melo Baptista**, *Universidade Federal do Rio de Janeiro*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Trypsin Active Site, A Computational Approach “.

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We hereby certify that, **Renata Stella Khouri**, *Universidade Federal do Rio de Janeiro*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugal, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Game Theory and Population Dynamics”.

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We hereby certify that, **Sven Van Segbroeck**, *Vrije Universiteit Brussel*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Reacting differently to adverse ties promotes cooperation in social networks.”.

Angra dos Reis, March 19, 2009.

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We hereby certify that, **Vincent Calvez**, *Ecole Normale Supérieure de Lyon*, participated in the “**Workshop on mathematical methods and modeling of biophysical phenomena**,” held at Hotel Portugalo, Angra dos Reis, RJ, from March 15 to 21, 2009 and presented the following work: “Kinetic models for chemotaxis”.

Angra dos Reis, March 19, 2009.



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