

workshop on
**mathematical methods and
modeling of biophysical phenomena**

November 30th to December 5th, 2017

We hereby certify that, **Alberto Adrego Pinto, Universidade do Porto**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**Evolutionary vaccination dynamics**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Alexandre Ferreira Ramos, USP - Escola de Artes, Ciências e Humanidades**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**Stochastic model of contact inhibition and the proliferation of melanoma in situ**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Camille Pouchol, Univ. Pierre et Marie Curie**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**Asymptotic analysis of some selection-mutation models**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Cécile Carrère, Univ. Pierre et Marie Curie**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**Modelling tumoral heterogeneity for chemotherapy optimization**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Chiara Mocenni, University of Siena**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**Bridging self-games and cooperation in evolutionary games on networks**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, ***Diane Peurichard***, **Institut National de Recherche en Informatique et en Automatique**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**Modelling tissue self-organisation and the fate of injury outcome**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Dietmar, Oelz, The University of Queensland**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: **“Kinesin driven neurite growth and tug-of-war of antagonistic molecular motors.”**.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Diogo A. Gomes**, King Abdullah Universitt of Science and **Technology**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**New numerical methods for time-dependent mean-field games**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Fabio Augusto da Costa Carvalho Chalub**, Univ. Nova de Lisboa, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**The Kimura Equation**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Jan Haskovec**, King Abdullah Universitt of Science and Technology, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**Continuum Modelling of Biological Network Formation**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Jean Clairambault**, Institut National de Recherche en Informatique et en Automatique, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**Tumour growth and drug resistance: an evolutionary view with perspectives in therapeutics**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **João Socorro Pinheiro Ferreira, Universidade Federal do Amapá**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: "".

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Liliam Cesar de Castro Medeiros**, **Universidade Estadual Paulista**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**Individual Based Models Applied to Epidemiology**”.

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We hereby certify that, **Lisa Maria Kreusser, University of Cambridge**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: **“An Anisotropic Interaction Model for Simulating Fingerprints”**.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, ***Maria Rita D'Orsogna***, **California State University Northridge**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: **“Dynamics of neuroendocrine stress response: bistability, timing, hypocortisolism and PTSD”**.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Max Oliveira de Souza, Universidade Federal Fluminense**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: **“Fixation: The Fingerprint of Evolutionary Processes”**.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Mezache Mathieu**, Institut National de Recherche en Informatique et en Automatique, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**An oscillatory kinetic model for the prion agregation process.**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Nancy Rodriguez**, **The University of North Carolina at Chapel Hill**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: **“On the global existence and qualitative behavior of solutions to a model for urban crime”**.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Nicolas Vauchelet, Université Paris 13**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: **“Mathematical modeling of the spread of Wolbachia for Dengue control”**.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, ***Nuno Miguel Melo Crokidakis Peregrino***, **Universidade Federal Fluminense**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**Consequences of social pressure in epidemic spreading coupled with opinion dynamics regarding vaccination**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Rita Ferreira**, King Abdullah University of Science and Technology, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**Stationary mean-field games with congestion**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Sébastien Benzekry**, Institut National de Recherche en Informatique et en Automatique, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: “**Mathematical Modeling and Prediction of Metastasis**”.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Simone de Almeida Delphim**, **Universidade Federal do Amapá**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: **“NUMERICAL MODELLING FOR THE ECONOMIC COSTS OF BIOLOGICAL INVASION”**.

Rio de Janeiro, December 5th, 2017.



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We hereby certify that, **Uri Ascher, Univ. of British Columbia**, participated in the Mathematical Methods and Modeling of Biophysical Phenomena, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 30th to December 5th, 2017 and presented the following work: **“Numerical Methods in Visual Computing: what we can learn from each other”**.

Rio de Janeiro, December 5th, 2017.



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