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BIOMAT 2014

International Symposium on
Mathematical and Computational Biology

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BIOMAT 2014

International Symposium on
Mathematical and Computational Biology

Poznan, Poland 3 – 7 November 2014

edited by

Rubem P Mondaini
Federal University of Rio de Janeiro, Brazil

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BIOMAT 2014
Proceedings of the International Symposium on Mathematical and Computational Biology

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Preface

The BIOMAT 2014 International Symposium has been held in the Conference Centre of the Stefan Banach International Mathematical Centre/ Institute of Mathematics of the Polish Academy of Sciences, at Bedlewo near Poznan, Poland, on November 03 -07, 2014. Senior representatives of the Polish Scientific Community have been in charge of the Local Organizing Committee. We thank the collaboration of Prof. Jerzy Tiuryn, Prof. Ryszard Rudnicki, Prof. Jacek Miekisz. Prof. Richard Kerner from France and his skills of being conversant with several languages from Eastern Europe has also given a fundamental cooperation in the task of administrative arrangements with our colleagues from Poland. He and Prof. Rafael Barrio from Mexico have also provided to all attendees some beautiful and unforgettable soirees of piano concerti in the Bedlewo Palace.

The participants came from twenty countries. From Europe (Belgium, France, Germany, Hungary, Italy, Poland, Romania, Russia, Ukraine,United Kingdom), from Americas (Argentina, Brazil, Canada, Colombia, Mexico, United States), from Africa (Algerie, South Africa), from Asia (India, Israel). In an informal atmosphere of continuous sessions, during five days, Plenary Speakers, authors of contributed papers and research students had the opportunity of discussing many research themes and to make commitments for future collaboration. The BIOMAT Consortium fine tradition of enhancing the scientific interdisciplinary activities of Biological and Mathematical Sciences of practitioners from developing countries has certainly succeed once more.

Financial support has been given by the Stefan Banach International Mathematical Centre and we thank our Polish colleagues for their kindness to provide some help consisting of some discount on the price of full pension accommodation in the Bedlewo Centre. Special thanks are due to the Director of the Bedlewo Centre, Slawomir Malecha and the expertise of his staff in Bedlewo. We also thank Prof. Eduardo Massad from University of São Paulo, Brazil, for the collaboration with the editorial costs of the BIOMAT 2014 book. We are indebted to the International Union of Biological Sciences (IUBS) and its Director, Dr. Nathalie Fomproix, from Paris, France, for the accommodation of some research students and young postdocs. The Society for Mathematical Biology (SMB) has also provided some support for participants through the request of Dr. Jane Heffernan from York University, Canada. On behalf of the BIOMAT Consortium, we thank very much all these institutions and their representatives. Their help

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has been essential in our offer of sixty fellowships to cover the expenses of full pension accommodation in Bedlewo.

The Editor of the BIOMAT International Series of Books and President of the BIOMAT Consortium-International Institute for Interdisciplinary Sciences, a non-profit international association of scientists and research students which is responsible by the organization of the BIOMAT Symposium series, would like to acknowledge the collaboration of his wife Carmem Lucia in the editorial work of the BIOMAT 2014 book. He is aware and very glad for the special dedication she usually gives in the final organization of the originals of the BIOMAT Series for publication after receiving all reports from reviewers and the submission of corrected versions by successful authors. He is also indebted to his research student Simão Coutinho de Albuquerque Neto who has made the adaptation of some accepted works to the requirements of the World Scientific LaTeX template.

Rubem P. Mondaini
President of the BIOMAT Consortium
Chairman of the BIOMAT 2014 Scientific Advisory Committee

Bedlewo near Poznan, Poland, November 2014

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