

PREFACE

The present publication is the volume of selected works of the BIOMAT International Symposium on Mathematical and Computational Biology which was held in Campos do Jordão, a beautiful touristic town on the Mantiqueira mountains, state of São Paulo, Brazil. Thirteen Keynote Speakers coming from Europe and Americas have given comprehensive talks in plenary sessions or have been lecturing in the two days of tutorials before the conference. Thirty two contributed papers were presented at technical sessions as part of the evaluation process of the Board of Referees. With more than 130 submitted papers, the level of acceptance is within the reasonable level of 20% to follow the decision of the BIOMAT Consortium for this BIOMAT series of books and special issues of indexed journals.

The informal atmosphere of the meeting has provided excellent opportunities for discussing interesting scientific subjects among professionals of many educational formations. This is the spirit of interdisciplinary science of the BIOMAT Consortium as well as the duty of the Consortium of enhancing the participation of young research students. The leaders of the tutorial sessions have been also selected among the Keynote Speakers carefully, in order to motivate the future work of prospective scientists.

As is usually made for the volumes of this series, the set of selected papers is a combination of original and state of art research as well as comprehensive review approaches in the areas of Mathematical Biology, Biological Physics, Mathematical Modelling of Biosystems and Bioinformatics. The book contains original results on Reaction-Diffusion waves, Demographic Allee Effect and the Dynamics of Reinfection of Tuberculosis. Recent reviews on the Modelling of Biosystems as the works on Symmetry Class of Icosahedral Viral Capsids and New Perspectives for a Theoretical Basis for Bioinformatics.

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index of this volume.

On behalf of the BIOMAT Consortium, a non-profit association of scientific researchers from universities and research institutes in five continents which is responsible for the organization of this annual series of symposia since the year 2001, we congratulate all the authors and participants for their professional work during the BIOMAT 2008 Symposium.

Rubem P. Mondaini
President of the BIOMAT Consortium

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