

Preface

Biological and biomedical researches are increasingly driven by experimental techniques that challenge our ability to analyze, process, and extract meaningful knowledge from the underlying data. The impressive capabilities of next generation sequencing technologies, together with novel and ever evolving distinct types of omics data technologies, have put an increasingly complex set of challenges for the growing fields of Bioinformatics and Computational Biology. To address the multiple related tasks, for instance in biological modeling, there is the need to, more than ever, create multidisciplinary networks of collaborators, spanning computer scientists, mathematicians, biologists, doctors, and many others.

The International Conference on Practical Applications of Computational Biology & Bioinformatics (PACBB) is an annual international meeting dedicated to emerging and challenging applied research in Bioinformatics and Computational Biology. Building on the success of previous events, the 8th edition of PACBB Conference will be held during 3–5 June 2015 in the University of Salamanca, Spain. On this occasion, special issues will be published by the Journal of Integrative Bioinformatics, the Journal of Computer Methods and Programs in Biomedicine, and the Current Bioinformatics journal covering extended versions of selected articles.

This volume gathers the accepted contributions for the 8th edition of the PACBB Conference after being reviewed by different reviewers, from an international committee composed of 72 members from 15 countries. The PACBB'15 technical program includes 15 papers from 26 submissions spanning many different subfields in Bioinformatics and Computational Biology.

Therefore, this event will strongly promote the interaction of researchers from diverse fields and distinct international research groups. The scientific content will be challenging and will promote the improvement of the valuable work that is being carried out by the participants. In addition, it will promote the education of young scientists, in a postgraduate level, in an interdisciplinary field.

We would like to thank all the contributing authors and sponsors (Telefónica Digital, Indra, Ingeniería de Software Avanzado S.A, IBM, JCyL, IEEE Systems Man and Cybernetics Society Spain, AEPIA Asociación Española para la

Inteligencia Artificial, APPIA Associação Portuguesa Para a Inteligência Artificial, CNRS Centre national de la recherche scientifique), as well as the members of the Program Committee and the Organizing Committee for their hard and highly valuable work and support. Their effort has helped to contribute to the success of the PACBB'15 event. PACBB'15 would not exist without your assistance. This symposium is organized by the Argonne National Laboratory (USA), the University of Salamanca (Spain), the Next Generation Computer System Group (<http://sing.ei.uvigo.es/>) of the University of Vigo (Spain) and the University of Minho (Portugal).

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9th International Conference on Practical Applications
of Computational Biology and Bioinformatics

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(Eds.)

2015, XIII, 148 p. 53 illus., Softcover

ISBN: 978-3-319-19775-3