

CALL FOR PAPERS

5TH WORKSHOP ON ALGORITHMS IN BIOINFORMATICS



WABI 2005



Hotel Torre Del Mar, Eivissa (Ibiza), Spain, October 3–6, 2005

WABI is sponsored by *EATCS*, the European Association for Theoretical Computer Science, and *ISCB*, the International Society for Computational Biology.

Program Committee:

Rita Casadio, U. Bologna (co-chair)
Gene Myers, U.C. Berkeley (co-chair)
Pankaj Agarwal, Duke U.
Tatsuya Akutsu, Kyoto U.
Amir Amihoud, Bar-Ilan U.
Alberto Apostolico, Purdue U.
Pierre Baldi, U.C. Irvine
Craig Benham, U.C. Davis
Gary Benson, Mount Sinai
Mathieu Blanchette, McGill
Nadia El-Mabrouk, U. Montréal
Olivier Gascuel, U. Montpellier
Raffaele Giancarlo, U. Palermo
Roderic Guigo, IMIM Barcelona
Michael Hallett, McGill U.
Daniel Huson, U. Tuebingen
Gregory Kucherov, INRIA Nancy
Michelle Lacey, Tulane U.
Jens Lagergren, KTH Stockholm
Giuseppe Lancia, U. Udine
Gaddy Landau, U. Haifa
Thierry Lecroq, U. Rouen
Bernard Moret, U. New Mexico
Shinichi Morishita, U. Tokyo
Elchanan Mossel, U.C. Berkeley
Vincent Moulton, U. East Anglia, UK
Lior Pachter, U.C. Berkeley
Knut Reinert, Free U. of Berlin
Isidore Rigoutsos, IBM Watson
Marie-France Sagot, INRIA Rhône-Alpes
David Sankoff, U. Ottawa
Sophie Schbath, INRA Jouy-en-Josas
Eran Segal, Rockefeller U.
Charles Semple, U. Canterbury
Joao Setubal, Virginia Tech.
Roded Sharan, Tel-Aviv U.
Steve Skiena, SUNY Stony Brook
Jens Stoye, U. Bielefeld
Esko Ukkonen, U. Helsinki
Alfonso Valencia, Centre for Biotechnology, Madrid
Lisa Vawter, Aventis USA
Lusheng Wang, U. Hong Kong
Tandy Warnow, U.T. Austin

Organizing Committee:

Josep Llus Ferrer (co-chair)
Maria Serna (co-chair)
Carme Alvarez
Llorenç Huguet
Magdalena Payeras
Jordi Petit
Oriol Serra
Dimitrios M. Thilikos

Important Dates:

Submission of Papers	April 20, 2005
Notification	June 1, 2005
Final Version	June 18, 2005
Workshop	October 3–6, 2005

Web site:

<http://www.lsi.upc.es/~wabi05/>

Scope: The workshop covers research in all aspects of algorithms in bioinformatics. The emphasis is on discrete algorithms for important problems in molecular biology, that are founded on sound models, that are computationally efficient, and that have been implemented and tested in simulations and on real datasets. The goal is to present recent results, including significant work-in-progress, and to identify and explore new directions of research.

Topics: Original research papers (including significant work-in-progress) or state-of-the-art surveys are solicited in all aspects of algorithms in bioinformatics, including, but not limited to:

- Exact and approximate algorithms for sequence analysis, gene and signal recognition, alignment and assembly, molecular evolution, structure determination or prediction, gene expression, gene networks, proteomics, functional genomics, and drug design.
- Development of methods, software, and dataset repositories for development and testing of such algorithms and their underlying models.
- High-performance computing approaches to computationally hard optimization problems in bioinformatics.

Submissions: Authors are invited to submit papers of at most 12 pages in LNCS style (<http://www.springer.de/comp/lncs/authors.html>). A paper should contain a succinct statement of the issues and of their motivation, a summary of the main results, and a brief explanation of their significance, all accessible to non-specialist readers. A more technical exposition should follow and an optional short appendix may contain proofs or additional data to be consulted at the discretion of the program committee.

Electronic submission is *required* and can be performed at the url www.wabi05.org. In case of problems, authors may, by arrangement with a program chair, submit 6 copies of the paper to:

Rita Casadio	Gene Myers
Dept. of Biology	Dept. of Computer Science
Università di Bologna	University of California
Sede via Selmi 3	253 Cory Hall
40126 Bologna, Italy	Berkeley, CA 94720-1770, USA

Simultaneous submissions to another conference with published proceedings are not permitted, but simultaneous submissions to journals are allowed, provided that the authors notify the program chairs; if published in a journal, such contributions will be published as short abstracts in the WABI proceedings.

Proceedings: Accepted papers will be published in the Springer series *Lecture Notes in Computer Science*. Previous proceedings of WABI appeared in LNCS volumes 2149 (Aarhus, 2001), 2452 (Rome, 2002), 2812 (Budapest, 2003), and 3240 (Bergen, 2004). Accepted papers will be allotted 12 pages in the proceedings. By arrangement with the Editor-in-Chief, selected papers from WABI will be invited for publication in a special issue of the *IEEE/ACM Transactions on Computational Biology and Bioinformatics* subject to the incorporation of significant additional materials.