WABI is sponsored by EATCS, the European Association for Theoretical Computer Science, and ISCB, the International Society for Computational Biology. WABI'10 is supported by Dep. of Comp. Sci., University of Liverpool.

**Important Dates:**
- **Submission**: May 11, 2010
- **Notification**: May 28, 2010
- **Final Version**: June 14, 2010
- **Workshop**: September 6–8, 2010

**Scope:**
All research in algorithmic work in bioinformatics, computational biology and systems biology. The emphasis is mainly on discrete algorithms and machine-learning methods that address 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 research results, including significant work-in-progress, and to identify and explore directions of future 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, computational biology and systems biology 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, molecular pathways and network, proteomics, functional genomics, and drug design.
- Methods, software, and dataset repositories for development and testing of such algorithms and their underlying models, as well as high-performance computing approaches to computationally hard learning and optimization problems.
- Novel approaches to analyzing and modeling next-generation sequence data, including sequence assembly, population genomics, metagenomics, metatranscriptomics and ncRNA sequencing.

**Submissions:**
Submissions must be formatted in **LaTeX** using the Springer LNCS style ([www.springer.de/comp/lncs/authors.html](http://www.springer.de/comp/lncs/authors.html)) and not exceed 12 pages. Each paper must 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.

Electronic submission is **required**; procedures for submission can be found on the WABI’10 web site. In case of problems, authors may, by prior arrangement, email a PDF file to the chairs, V. Moulton (vincent.moulton@cmp.uea.ac.uk) or M. Singh (mona@cs.princeton.edu).

Simultaneous submission to another conference with published proceedings is not permitted, but simultaneous submission to a journal is allowed, provided that the authors notify the program chairs; if published in a journal, such a contribution will be published as a short abstract in the WABI proceedings.

**Proceedings:**
Proceedings will be published in the Springer series *Lecture Notes in Bioinformatics*; papers will be allotted 12 pages. Previous proceedings of WABI appeared in LNCS/LNBI volumes 2149 (Aarhus 2001), 2452 (Rome 2002), 2812 (Budapest 2003), 3240 (Bergen 2004), 3692 (Mallorca 2005), 4175 (Zurich, 2006), 4645 (Philadelphia 2007), 5251 (Karslruhe 2008), and 5724 (Philadelphia 2009). By arrangement with the Editor-in-Chief, selected papers from WABI will be invited for an extended publication in a special issue of the *BMC Bioinformatics*.

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- Igor Potapov
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- Prudence Wong

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