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Lingling Jin · Dannie Durand (Eds.)

Comparative Genomics

19th International Conference, RECOMB-CG 2022
La Jolla, CA, USA, May 20–21, 2022
Proceedings

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Preface

With the advent of high-throughput DNA sequencing and chromosome conformation capture technologies, more and more high quality genome sequences and genome-related data are available. The challenges for computational comparative genomics are also increasing. The comparison of related genomes provides a great inferential power for analyses of genome evolution, gene function, ancestral genome organization, cellular processes, mechanisms of evolution, and the evolution of cancer genomes.

This volume contains the papers presented at the 19th Annual RECOMB Satellite Workshop on Comparative Genomics, held at La Jolla, USA, during May 20–21, 2022. RECOMB-CG is a forum that brings together leading researchers in the mathematical, computational, and life sciences to discuss cutting edge research in comparative genomics, with an emphasis on computational approaches and novel experimental results.

There were 28 submissions from authors in 15 countries. Each manuscript was reviewed by at least three, but usually four, members of the Program Committee (PC) as well as sub-reviewers who were sought based on their expertise for specific papers. The review process was single blind. After careful consideration, 18 papers (64%) were accepted for oral presentation at the meeting and inclusion in this proceedings.

RECOMB-CG 2022 would like to thank the invited speakers: Aoife McLysaght (University of Dublin, Trinity College, Ireland), Rachel Dutton (University of California at San Diego, USA), and Nandita Garud (University of California at Los Angeles, USA).

We express our appreciation to the PC members and sub-reviewers for their diligent work reviewing the manuscripts and providing thorough discussion and review reports that informed the review process.

We also thank the other members of the Steering Committee, Marília Braga, Jens Lagergren, Aoife McLysaght, Luay Nakhleh, and David Sankoff for their guidance and helpful discussions.

Special thanks to the local organizer, Siavash Mirarab, and to the Jacobs School of Engineering, University of California, San Diego, for organizing and providing financial support for the conference.

We used the EasyChair conference system to handle submissions, reviews, and formatting.

In closing, we would like to thank all the scientists who submitted papers and posters and those who enthusiastically attended RECOMB-CG 2022.

May 2022

Lingling Jin
Dannie Durand

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Previous Meetings

The 1st RECOMB-CG, Minneapolis, USA, 2003
 The 2nd RECOMB-CG, Bertinoro, Italy, 2004
 The 3rd RECOMB-CG, Dublin, Ireland, 2005
 The 4th RECOMB-CG, Montréal, Canada, 2006
 The 5th RECOMB-CG, San Diego, USA, 2007
 The 6th RECOMB-CG, Paris, France, 2008
 The 7th RECOMB-CG, Budapest, Hungary, 2009
 The 8th RECOMB-CG, Ottawa, Canada, 2010
 The 9th RECOMB-CG, Galway, Ireland, 2011
 The 10th RECOMB-CG, Niterói, Brazil, 2012
 The 11th RECOMB-CG, Lyon, France, 2013
 The 12th RECOMB-CG, New York, USA, 2014
 The 13th RECOMB-CG, Frankfurt, Germany, 2015
 The 14th RECOMB-CG, Montréal, Canada, 2016
 The 15th RECOMB-CG, Barcelona, Spain, 2017
 The 16th RECOMB-CG, Québec, Canada, 2018
 The 17th RECOMB-CG, Montpellier, France, 2019
 The 18th RECOMB-CG, virtual, 2021

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