

MCBIOS 2019

Informatics for Precision Medicine

March 28-30, 2019 | Hilton Birmingham at UAB, Birmingham, AL

Program Overview

For more information visit conference site: mcbios19.informatics.uab.edu

Keynote Presentations



"Brain Genomics"
Mark Gerstein, Ph.D.
 Albert L. Williams Professor of Biomedical Informatics
 Professor, Molecular Biophysics & Biochemistry and Computer Science
 Co-Director, Yale Program in Computational Biology & Bioinformatics
 Yale University



"Genomic Medicine for Understudied Populations: Lessons from Colombia"
King Jordan, Ph.D.
 Director of Bioinformatics Graduate Program
 Associate Professor of Biology
 Georgia Institute of Technology



"Semi-Supervised Learning to the Rescue: Towards Deep Understanding of Coding Variant Effects"
Predrag Radivojac, Ph.D.
 Professor of Computer Sciences
 Khoury College of Computer Sciences
 Northeastern University



"Clinical Applications of Genomic Medicine: The State of the Art"
Josh F. Peterson, M.D., MPH, FACMI
 Program Director, Masters of Applied Clinical Informatics
 Associate Professor of Biomedical Informatics and Medicine
 Vanderbilt University Medical Center

Career Development

The goals of this career development workshop are to present trainees with a breadth of career-related resources and to provide a framework for career trajectory and planning.

Special Session 1: Student Career Development

Special Session 2: Young Scientist Excellence Award

Special Session 3: Student Mentoring Breakfast

Podium Presentations

- Track 1: Clinical Genomics
- Track 2: Drug Discovery and Informatics
- Track 3: Translational bioinformatics
- Track 4: Genome Biology
- Track 5: Biomedical Informatics
- Track 6: Computational Biology Techniques
- Track 7: Emerging Technologies
- Track 8: Machine Learning and AI

Hands-on Tutorials

- Tutorial #1: Single-cell Genomic Data Analysis- 3 hours
- Tutorial #2: Metabolomics Data- 3 hours

Poster Presentations

There is still time for attendees to present preliminary work. Deadline for submission is March 15, 2019. Submission information on website.

Roundtable Discussions

- Example topics include:
- Bioinformatics education in the medical school
 - How to train next-generation bioinformatics data scientists
 - Bioinformatics infrastructure and data commons
 - Immunogenomics emerging topics

Expert Panels

- Example topics include:
- AI in Bioinformatics: Opportunities and Challenges
 - Translational Bioinformatics
 - Consumer Genomics
 - Privacy and Security Concerns for Clinical Genomic Research
 - High-performance Computing and Clouds in Bioinformatics

SCAN HERE



Register for MCBIOS

Scan the QR code or visit
<https://tinyurl.com/ynzakts>.
 Early registration deadline: March 15.



Follow us on Twitter!

#MCBIOS19

For conference news and networking.

8

technical tracks

16

podium sessions

3

career sessions

15

discussion topics

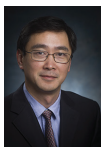
6

experts panels

120

posters

Conference Chairs



Jake Y. Chen, Ph.D.
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Matthew Might, Ph.D.
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 Founding Director
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Program Chairs



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