

5th Workshop on Computational Advances in Molecular Epidemiology (CAME 2016)
in conjunction with
6th IEEE International Conference on Computational Advances in Bio and Medical
Sciences (ICCABS)
October 13-15, 2016, Georgia Institute of Technology, Atlanta, GA, USA
<http://www.iccabs.org/>

The CAME workshop provides a forum for presentation and discussion of the latest computational research in molecular epidemiology. This multidisciplinary workshop will bring together field practitioners of molecular epidemiology, molecular evolutionists, population geneticists, medical researchers, bioinformaticians, statisticians and computer scientists interested in the latest developments in algorithms, mining, visualization, modeling, simulation and other methods of computational, statistical and mathematical analysis of genetic and molecular data in the epidemiological context.

Molecular epidemiology is essentially an integrative scientific discipline that considers molecular biological processes in specific epidemiological settings. It relates molecular biological events to etiology, distribution and prevention of disease in human populations. Over years, molecular epidemiology became extensively fused with mathematical and computational science and immensely benefitted from this tight association. The workshop will review the latest advancements in application of mathematical and computational approaches to molecular epidemiology.

Workshop topics of interest include but are not limited to:

- Analysis of mass spectrometry data
- Evaluation of viral quasispecies
- Computational support for disease surveillance
- Identification of pathogen transmission events
- Transmission networks
- Pathogen evolution
- Identification of novel markers of disease
- Population dynamics and drug-resistance

This meeting is by invitation only. If you would like to inquire about the possibility of being invited, please contact the workshop chairs by August 1, 2016. The abstracts of up to 4 pages in Springer LNCS format should be submitted via easychair. As in previous years, authors of selected abstracts will be invited to submit full-length papers to special issues of BMC Bioinformatics or BMC Genomics following the workshop.

Workshop registration fee: Before September 1, 2016: \$300
 After September 1, 2016: \$400

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