

# BigLS 2015 – 3rd ACM International Workshop on Big Data in Life Sciences

In conjunction with the ACM Conference on Bioinformatics, Computational Biology and Health Informatics (BCB 2015)

Wednesday, September 9, 2015, Atlanta, GA

<http://www.bigls.org/>

The ever-growing volume and diversity of biological and biomedical data collections continues to pose new challenges and increasing demands on computing and data management. The inherent complexity of this Big Data forces us to rethink how we collect, store, combine and analyze it. BigLS is a workshop series dedicated to the broad theme of Big Data in life sciences. The goal of the workshop is to bring together leading researchers and practitioners working on a diverse range of Big Data problems relating to biology and medicine, and engage them in a discussion about current Big Data problems, the state of computational tools and analytics, the challenges and the future trends within life sciences.

**The focus of this year edition is on scientific workflows for Big Data analytics, including workflows design, optimization, management and execution in HPC and cloud environments.**

In addition, papers catering to the following broad themes are also welcome:

- Scalable algorithms and techniques for Big Data analytics in molecular biology.
- Statistical and integrative approaches to Big Data biology.
- Emerging Machine Learning and AI techniques for Big Data biology.
- High performance computing methods and software for Big Data biology.
- Software and hardware foundations for managing Big Data in biomedical informatics.

The workshop will feature original research papers as well as invited talks from reputed researchers in the field. Submitted manuscripts should not exceed 10 pages in the ACM 8.5x11 template (<http://www.acm.org/sigs/publications/proceedings-templates>). All regular paper submissions will be peer-reviewed based on their originality, technical soundness, significance, presentation, and interest to the workshop attendees. All accepted papers will be included in the ACM-BCB proceedings published by the ACM Digital Library.

Paper submission link: <https://easychair.org/conferences/?conf=bigls2015>

## Important Dates:

- Paper submission: June 26, 2015
- Authors notification: July 20, 2015
- Camera-ready papers: July 30, 2015

## Workshop organizers:

Ananth Kalyanaraman, Washington State University  
Jaroslaw Zola, University at Buffalo, SUNY

Visit <http://www.bigls.org/> for latest updates and more information!