

# Bioinformatics Open Source Conference (BOSC) 2014

A Special Interest Group (SIG) meeting at ISMB 2014, Boston, MA, USA



BOSC is organised by the Open Bioinformatics Foundation (OBF, [www.open-bio.org](http://www.open-bio.org)), one of the ISCB Communities of Special Interest (COSIs). The OBF is a non-profit group that promotes the practice and philosophy of Open Source software development and Open Science in the biological research community.

## BOSC Schedule - Day One - Friday, 11 July 2014

Time	Title	Author/Notes
<b>7:30-9:00</b>	<b>Registration</b>	
9:00-9:15	Introduction and Welcome	
9:15-10:15	<b>Keynote:</b> A History of Bioinformatics (in the Year 2039)	C. Titus Brown
<b>10:15-10:45</b>	<b>Coffee Break</b>	
<b>10:45-12:30</b>	<b>Session: Genome-scale Data and Beyond</b>	Chair: Chris Fields
10:45-11:03	ADAM: Fast, Scalable Genomic Analysis	Frank Austin Nothhaft
11:03-11:21	A Framework for Benchmarking RNA-seq Pipelines	Rory Kirchner
11:21-11:39	New Frontiers of Genome Assembly with SPAdes 3.1	Andrey Prjibelski
11:39-11:57	SigSeeker: An Ensemble for Analysis of Epigenetic Data	Jens Lichtenberg
11:57-12:15	Galaxy as an Extensible Job Execution Platform	John Chilton
12:15-12:30	Open Bioinformatics Foundation (OBF) Update	Hilmar Lapp
<b>12:30-13:30</b>	<b>Lunch</b>	(Lunch and poster session overlap)
<b>13:00-14:00</b>	<b>Poster Session and Birds of a Feather (BOFs)</b>	
<b>14:00-15:30</b>	<b>Session: Visualization</b>	Chair: Rob Davey
14:00-14:18	WormGUIDES: an Interactive Informatic Developmental Atlas at Subcellular Resolution	Anthony Santella
14:18-14:36	BioJS: an Open Source Standard for Biological Visualisation	Manuel Corpas
14:36-14:54	Biodalliance: a Fast, Extensible Genome Browser	Thomas Down
14:54-15:12	TGAC Browser: Visualisation Solutions for Big Data in the Genomic Era	Anil S. Thanki
15:12-15:30	Explore, Analyze, and Share Genomic Data Using Integrated Genome Browser	Ann Loraine
<b>15:30-16:00</b>	<b>Coffee Break</b>	
<b>16:00-17:00</b>	<b>Session: Project Updates</b>	Chair: Peter Cock
16:00-16:12	BioMart 0.9 – Introducing Tools for Data Analysis and Visualisation	Luca Pandini
16:12-16:24	Biocaml: The OCaml Bioinformatics Library	Ashish Agarwal
16:24-16:36	BioRuby and Distributed Development	Pjotr Prins
16:36-16:48	Biopython Project Update	Wibowo Arindrarto
16:48-17:00	Shared Bioinformatics Database Within Unipro UGENE	Ivan Protsyuk
<b>17:00-17:30</b>	<b>Session: Lightning Talks</b>	Chair: Peter Cock
17:00-17:05	Fostering the Next Generation of Data-driven Open Science with R	Karthik Ram
17:07-17:12	Tripal: an Open Source Toolkit for Building Genomic and Genetic Data Websites and Databases	Margaret Staton
17:14-17:19	PLUTo: Phyloinformatic Literature Unlocking Tools	Ross Mounce
17:21-17:26	A Publication Model that Aligns with the Key Open Source Software Principles	Michael L. Markie
17:27-17:30	Announcements	
<b>17:30-18:30</b>	<b>Birds of a Feather (BOFs)</b>	
<b>19:00-</b>	<b>Pay-your-own-way BOSC dinner</b> , The Asgard Irish Pub and Restaurant	Limited seats, note <a href="#">RSVP</a> only

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## BOSC Schedule - Day Two - Saturday, 12 July 2014

Time	Title	Author/Notes
8:55-9:00	Announcements	
9:00-9:15	Codefest 2014 Report	Brad Chapman
9:15-10:15	<b>Keynote:</b> Biomedical Research as an Open Digital Enterprise	Philip Bourne
<b>10:15-10:45</b>	<b>Coffee Break</b>	
<b>10:45-12:30</b>	<b>Session: Software Interoperability</b>	Chair: Raoul Bonnal
10:45-11:03	Pathview: an R/Bioconductor Package for Pathway-based Data Integration and Visualization	Weijun Luo
11:03-11:21	Use of Semantically Annotated Resources in the Moby2 Web Framework	Hervé Ménager
11:21-11:39	Towards Ubiquitous OWL Computing: Simplifying Programmatic Authoring of and Querying with OWL Axioms	Hilmar Lapp
11:39-11:57	Integrating Taverna Player into Scratchpads	Robert Haines
11:57-12:15	Small Tools for Bioinformatics	Pjotr Prins
<b>12:30-13:30</b>	<b>Lunch</b>	(Lunch and poster session overlap)
<b>13:00-14:00</b>	<b>Poster Session and Birds of a Feather (BOFs)</b>	
<b>14:00-15:30</b>	<b>Session: Open Science and Reproducible Research</b>	Chair: Hilmar Lapp
14:00-14:18	SEEK for Science: A Data Management Platform which Supports Open and Reproducible Science	Carole Goble
14:18-14:36	Arvados: Achieving Computational Reproducibility and Data Provenance in Large-Scale Genomic Analyses	Brett Smith
14:36-14:54	Enhancing the Galaxy Experience through Community Involvement	Daniel Blankenberg
14:54-15:12	Supporting Dynamic Community Developed Biological Pipelines	Brad Chapman
15:12-15:30	Open as a Strategy for Durability, Reproducibility and Scalability	Jonathan Rees
<b>15:30-16:00</b>	<b>Coffee Break</b>	
16:00-17:00	<b>Panel:</b> Reproducibility: Rewards and Challenges (Panelists: Phil Bourne, C. Titus Brown, Varsha Khodiyar, Kaitlin Thaney)	Chair: Brad Chapman
17:00-17:10	Presentation of Student Travel Awards and Concluding Remarks	
<b>17:10-18:00</b>	<b>Birds of a Feather (BOFs)</b>	

Please refer to [http://www.open-bio.org/wiki/BOSC\\_2014\\_Schedule](http://www.open-bio.org/wiki/BOSC_2014_Schedule) for the latest schedule, including any changes since this document was prepared.



We thank [Eagle Genomics](#) for sponsoring the BOSC Student Travel Awards again this year, and welcome [GigaScience](#) (an online open-access open-data journal for 'big-data' studies in the life and biomedical sciences), and [Curoverse](#) (the team behind the open source platform [Arvados](#)) as new sponsors for BOSC 2014. We also thank [Google](#) for their generous support for video-recording the talks at BOSC 2014.

**BOSC 2014 Organizing Committee:** Nomi Harris and Peter Cock (Co-Chairs), Raoul Bonnal, Brad Chapman, Robert Davey, Christopher Fields, Hans-Rudolf Hotz, Hilmar Lapp.