

# RIKEN Hackathon FY2019

## Topics:

- Research data accumulation and integration
- Research data management strategy
- Research data publication and sharing
- Data standardization

## Open Symposium

2/17<sup>Mon.</sup> RIKEN Kobe Campus

Registration:  
<https://rikenhackathon2019.peatix.com>

12:00 <sup>EN</sup>  
**Opening Remarks**  
 Michihiko Minoh (RIKEN)

12:10 <sup>EN</sup>  
**Invited Lecture 1** Chair: Issaku Yamada (Noguchi Institute)  
**Practice of Large Science Data Collection and Data Utilization Learned from NCBI PubChem**  
 Evan Bolton (National Center for Biotechnology Information)

13:00 <sup>EN</sup>  
**Invited Lecture 2** Chair: Shuichi Onami (RIKEN Center for Biosystems Dynamics Research)  
**OME's Bio-Formats, OMERO and IDR: Making Biologic Data FAIR on a Global Scale**  
 Jason R. Swedlow (University of Dundee)

13:40 <sup>EN</sup>  
**Invited Lecture 3** Chair: Hiroshi Masuya (RIKEN BioResource Research Center)  
**Building Bridges - Linked Open Data in the Open Microscopy Environment**  
 Josh Moore (University of Dundee)

14:00 **break**

14:20 <sup>EN</sup>  
**Invited Lecture 4** Chair: Hideo Yokota (RIKEN Center for Advanced Photonics)  
**Standardization and Data Utilization of X-ray CT Imaging**  
 Toshiyuki Takatsuji (National Institute of Advanced Industrial Science and Technology)

**Session 1. Introduction of RIKEN Research Projects** <sup>JA</sup>  
 15:10  
**RIKEN Engineering Network "Development of Imaging Network"**  
 Hideo Yokota (RIKEN Center for Advanced Photonics)

15:30  
**RIKEN Open Life Science Platform**  
 Shuichi Onami (RIKEN Center for Biosystems Dynamics Research)

**Session 2. Research Topic Introduction by Hackathon** <sup>EN JA</sup>  
**Participants**  
 15:50  
**Integrating Orthology and Gene Expression Data: The Case of OMA and Bgee Databases**  
 Tarcisio Mendes De Farias (Swiss Institute of Bioinformatics and University of Lausanne)

16:05  
**Making Life Science Data More Usable**  
 Yasunori Yamamoto (Database Center for Life Science)

16:20  
**RIKEN Plant Metabolome MetaDatabase: An Open-Access Repository for Plant Metabolomics Studies and Structured Metadata**  
 Atsushi Fukushima (RIKEN Center for Sustainable Resource Science)

16:35  
**Data Coordination for Large-Scale Transcriptome Data Production in FANTOM and Single-Cell Projects**  
 Takeya Kasukawa (RIKEN Center for Integrative Medical Sciences)

16:55  
**Closing Remarks**  
 Shuichi Onami (RIKEN Center for Biosystems Dynamics Research)

18:30  
**Social Gathering (charged option)**

<sup>EN</sup> : English session, <sup>JA</sup> : Japanese session

## Hackathon 2/18<sup>Tue.</sup> → 22<sup>Sat.</sup> 9:00 –17:00 each day

RIKEN Kobe Campus → 2/20<sup>Thu.</sup> → RIKEN Wako Campus

2/18 Tue.  
**Team building, setup and development**

2/19 Wed.  
**Development and Interim**

2/20 Thu.  
**Move to Wako, team building, setup and development**

2/21 Fri.  
**Development**

2/22 Sat.  
**Development, final reports and wrap-up**

## Organization:

- Data Knowledge Organization Unit and Data Management System Unit, R&D Group, Head Office for Information Systems and Cybersecurity, RIKEN
- RIKEN Open Life Science Platform
- RIKEN Engineering Network "Development of Imaging Network"

## Contact Information:

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## Deal with personal information:

The personal information provided by participants will only be used for this symposium