

Introducing BioC Asia

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(My message / the purpose) of this talk


- There is an all-Asian level R conference / community (==BioC Asia).
- Is there anything we (==AsiaR) can learn from BioC Asia?
- If you get an idea, share it with AsiaR community!



What is BioC Asia?

- BioC Asia is **Bioconductor's** annual conference in Asia.
- BioC Asia 2020 received R consortium support.

[An R Consortium blog article](#)
(Interview with a BioC Asia organizer)

THE **LINUX** FOUNDATION **PROJECTS**


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Members Projects About Webinars News  

Bioconductor Asia Membership Increasing Due to Going Virtual

By R Consortium | May 28, 2021 | Blog, Events

R Consortium talked to Bioconductor Asia co-organizer Matt Ritchie about the upcoming conference (BioC Asia 2021), how COVID has affected attendance at the conference, and how they deal with multilingualism at their meetings.



RC: What is the R community like for Bioconductor Asia?

What is Bioconductor?

Bioconductor

- is an R package repository (/project) for analysis of biological data.
- has it's own R package repository different from CRAN.
- is a grassroots project.
- is trying to build a diverse, collaborative, and welcoming community.



About Bioconductor

The mission of the *Bioconductor* project is to develop, support, and disseminate free open source software that facilitates rigorous and reproducible analysis of data from current and emerging biological assays. We are dedicated to building a diverse, collaborative, and welcoming community of developers and data scientists.

Bioconductor uses the R statistical programming language, and is open source and open development. It has two releases each year, and an active user community. *Bioconductor* is also available as [Docker](#) images.

News

- *Bioconductor* [Bioc 3.15](#) Released.
- Nominations for [2022 BiocAward](#) now open. Deadline May 20th.
- *Bioconductor* [browsable code base](#) now available.
- See our [google calendar](#) for events,

Bioc2022 Conference»

This is a hybrid in-person and virtual conference.

[Registration](#) Now Open! Limited in-person tickets available.

Scholarships to attend the conference are available. To apply please see [Regis](#)

Become a Bioconductor [Sponsor](#)

Nominate a Candidate for [Bioc2022 BiocAward](#)

See [Bioc2022 Conference Website](#) for more details

Abstract Submissions are now closed.

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- Discover [2140 software packages](#) available in *Bioconductor* release 3.15.

Get started with *Bioconductor*

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Learn »

Master *Bioconductor* tools

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<https://www.bioconductor.org/>

Bioconductor is also a community!

The screenshot shows the 'community-bioc' Slack channel. The left sidebar lists various channels like #general, #bioc, #bioc2021, etc. The main area shows a message from Lori Shepherd announcing the release of Bioconductor 3.15, with a link to the release announcement. Below it, a message from James Ward mentions joining the channel. At the bottom, a message from Krithika Bhuvanesh discusses a problem with factor strand information, accompanied by a screenshot of a table with genomic data.

GRCh37_pos	chrpos_rld	array_pos	chr	lmm_strand
1:207620289	rs12081383	rs12081383	(T/C)	BOT
1:207624395	rs12081383	rs12081383	(T/C)	BOT
1:207624928	rs12081383	rs12081383	(T/C)	BOT
1:207625014	rs12081383	rs12081383	(T/C)	BOT

The screenshot shows the Bioconductor website. The header includes the Bioconductor logo and navigation links like Overview, Repositories, Projects, Packages, and People. The main content area features a 'Pinned' section with links to Contributions, BioCStickers, bioconductor_docker, and bioconductor.org. Below this, there is an 'Events' section with links to single-cell RNA-seq analysis, CSAMA 2022, BioC 2022, and the European Bioconductor Conference. A 'Learn' sidebar on the right lists various resources like Courses, Education and Training, Support site, etc.

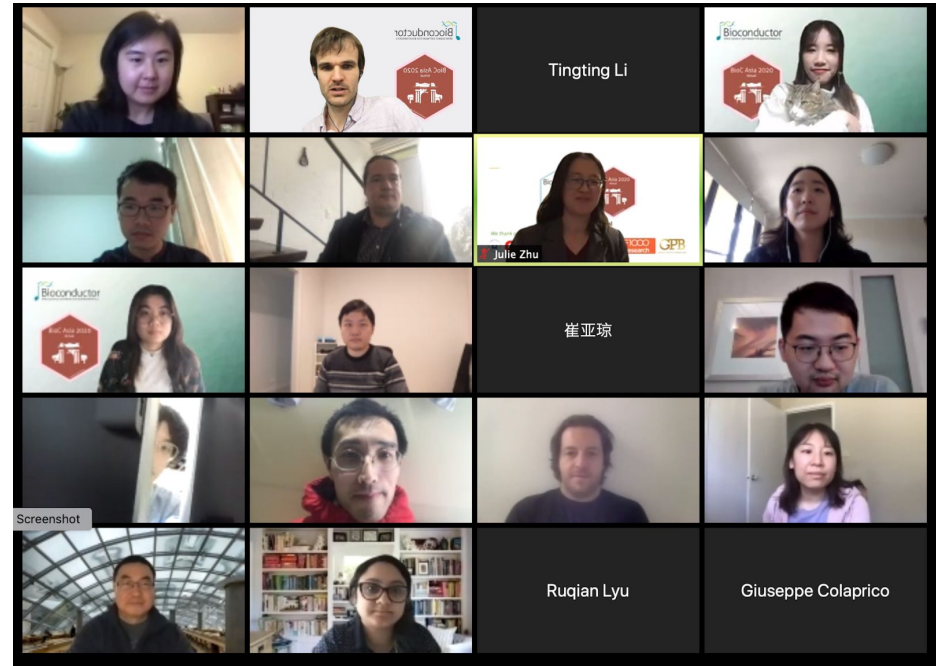
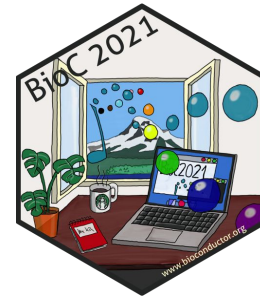
Bioconductor has its
Slack, GitHub, events,
learning materials, ...
(all the links to them are in bioconductor.org)

Master *Bioconductor* tools

- [Courses](#)
- [Education and Training](#)
- [Support site](#)
- [Package vignettes](#)
- [Literature citations](#)
- [Common work flows](#)
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What is BioC [Asia]? (More details)

- BioC is held in three regions (America [BioC], Europe [EuroBioC], Asia [BioC Asia])
- BioC Asia is relatively new and small group compared to other regions.
- Due to the pandemic, BioC has been held virtually in the last few years.



Contents of BioC [Asia]

- Talks (about methodology, statistics, special interest group, ...)
- Package demo / Workshop (with R / Bioconductor packages)

The video player shows a talk titled "Strategies to build a strong diverse AsiaR community". The video is from the Bioconductor channel, which has 4.2K subscribers. The video is 1:02 / 22:43 long. The video is titled "Strategies to build a strong diverse AsiaR community" and includes the text "#day3_2-janani" and "BioC Asia 2021". The video is from the Bioconductor channel, which has 4.2K subscribers. The video is 1:02 / 22:43 long. The video is titled "Strategies to build a strong diverse AsiaR community" and includes the text "#day3_2-janani" and "BioC Asia 2021".

The video player shows a workshop titled "Dimension Reduction for Beginners: Hitchhiker's Guide to Matrix Factorization and PCA". The video is from the Bioconductor channel, which has 4.2K subscribers. The video is 1:19 / 1:01:25 long. The video is titled "Dimension Reduction for Beginners: Hitchhiker's Guide to Matrix Factorization and PCA" and includes the text "151 views · Dec 3, 2021". The video is from the Bioconductor channel, which has 4.2K subscribers. The video is 1:19 / 1:01:25 long. The video is titled "Dimension Reduction for Beginners: Hitchhiker's Guide to Matrix Factorization and PCA" and includes the text "151 views · Dec 3, 2021".

Who can organize BioC [Asia]?

- Anyone can organize BioC [Asia].
- If you want to be an organizer, you can say so on the Slack workspace.

ORGANIZERS

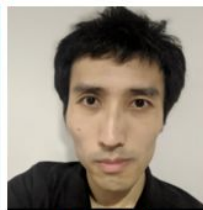
Organizing committee



Jianqiang Sun



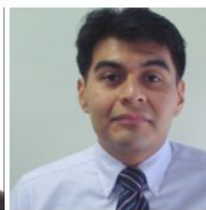
Koki Tsuyuzaki



Kozo Nishida



Mahmoud Ahmed



Marcel Ramos



Matt Ritchie



Peter Hickey



Satoshi Kume



Tom Kelly

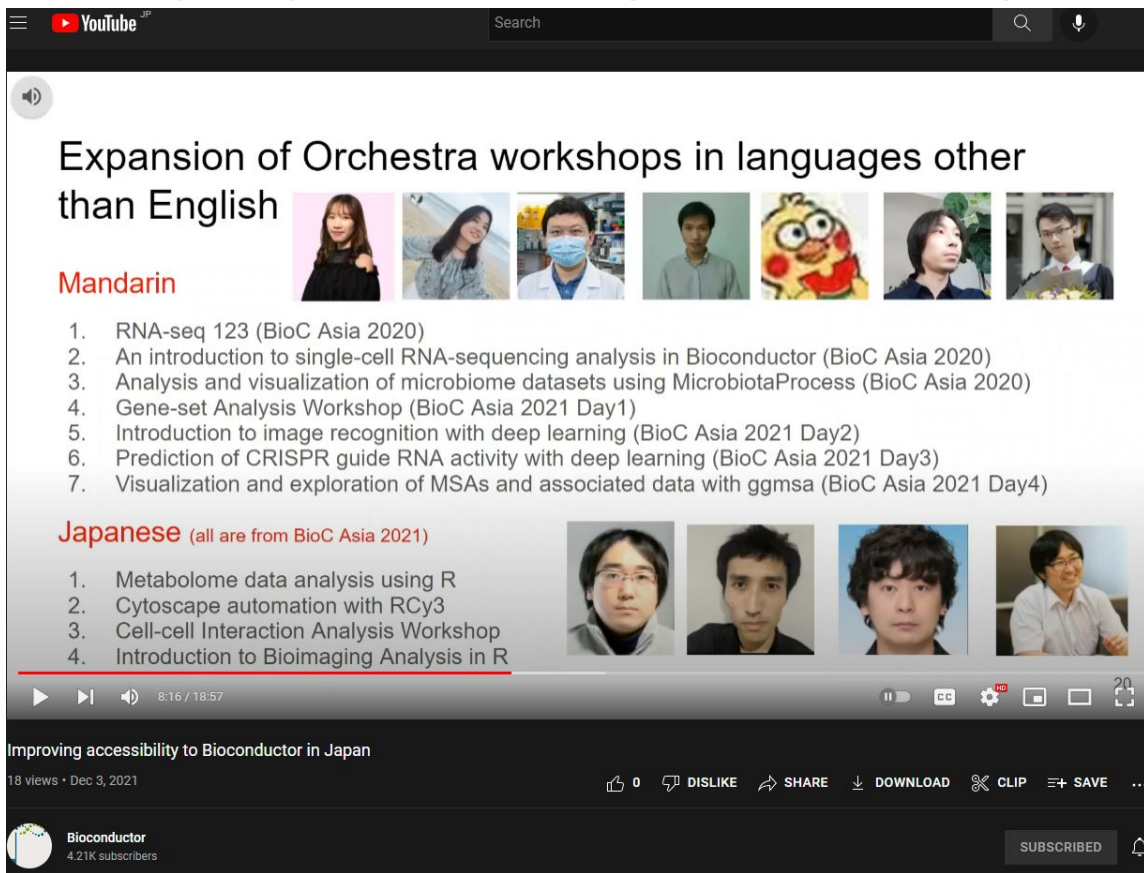


Xueyi Dong

<https://biocasia2021.bioconductor.org/organizers/>

Challenge to overcome language barriers (in BioC Asia)

- There are many different languages in Asia.
- It is difficult to expect everyone to use English.
- BioC Asia has been holding workshops in languages other than English (since 2020).



The image shows a YouTube video player interface. The video title is "Expansion of Orchestra workshops in languages other than English". Below the title, there are two sections: "Mandarin" and "Japanese (all are from BioC Asia 2021)". Each section lists workshop topics and includes a small portrait of the presenter. The "Mandarin" section lists 7 topics, and the "Japanese" section lists 4 topics. The video player shows a progress bar at 8:16 / 18:57. The channel name is "Bioconductor" with 4.21K subscribers. The video has 18 views and was uploaded on Dec 3, 2021. The interface includes standard YouTube controls like play, volume, and share buttons.

YouTube

Search

Expansion of Orchestra workshops in languages other than English

Mandarin

1. RNA-seq 123 (BioC Asia 2020)
2. An introduction to single-cell RNA-sequencing analysis in Bioconductor (BioC Asia 2020)
3. Analysis and visualization of microbiome datasets using MicrobiotaProcess (BioC Asia 2020)
4. Gene-set Analysis Workshop (BioC Asia 2021 Day1)
5. Introduction to image recognition with deep learning (BioC Asia 2021 Day2)
6. Prediction of CRISPR guide RNA activity with deep learning (BioC Asia 2021 Day3)
7. Visualization and exploration of MSAs and associated data with ggmsa (BioC Asia 2021 Day4)

Japanese (all are from BioC Asia 2021)

1. Metabolome data analysis using R
2. Cytoscape automation with RCy3
3. Cell-cell Interaction Analysis Workshop
4. Introduction to Bioimaging Analysis in R

Improving accessibility to Bioconductor in Japan

18 views • Dec 3, 2021

Bioconductor
4.21K subscribers

SUBSCRIBED

9

The situation for BioC Asia and AsiaR is very similar

- Both are all-Asia level conference / community .
- Both are communities that use the R language as the common language.
- Both are still new and small groups compared to communities outside of Asia.
- Both need to overcome language barriers.

My idea for promoting AsiaR (from the BioC Asia experience)

1. Hold a workshop using some R package[s].
2. Record and share the workshop on YouTube.
3. Add subtitles in various Asian languages to the YouTube video.

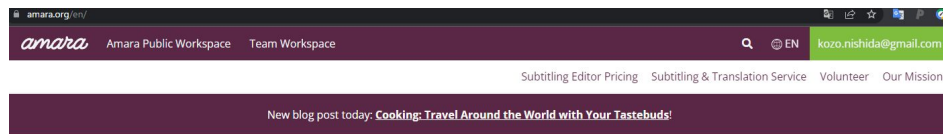
YouTube video player showing a presentation slide titled "Bioconductor Community Advisory Board Members". The slide features a world map with lines connecting to portraits of board members from various countries, including the UK, Germany, Italy, Japan, USA, Spain, Brazil, and Australia. A Japanese subtitle is overlaid on the video:

コミュニティ委員会は特に、人種、民族、教育レベルそしてBioconductorの経験の組み合わせを目指して、可能な限り多様化を図りたいと考えています。

Below the video, the YouTube interface shows the video title "What is Bioconductor?", 388 views, and a date of Dec 2, 2021. The Bioconductor channel name and 4.21K subscribers are also visible.

Amara helping to add subtitles to YouTube

- amara.org
- Amara is easy to use.
Anyone can use Amara to translate any YouTube videos.
- I will use Amara to translate the recording of Joel's live-cording (after this talk) into Japanese.



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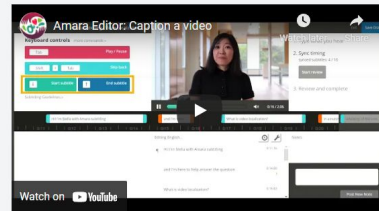


Amara Subtitle Editor

Create and Edit Subtitles Online

The [multi-award winning Amara Editor](#), a cloud-based do-it-yourself solution with state of the art subtitling features, is the heart of the Amara subtitling platform.

Whether you work by yourself, as part of a team, manage a group of volunteers or external vendors, the Amara Editor combined with project and team management tools can help you to coordinate subtitle projects of all sizes.



Beep! Boop! I RA, but you c

Summary of this talk

- Introduced Bioconductor and the conference / community (BioC) and its Asian region version (BioC Asia).
- The situation for BioC Asia and AsiaR is very similar.
 - Both have R as common language.
 - Both are still small but those development is expected.
 - Both need to overcome language barriers.
- Spreading the translation of AsiaR videos using Amara may be effective in promoting AsiaR.

Do you have any ideas? Share it with AsiaR!

- Slack https://bit.ly/join_asiaR_slack
- Twitter https://twitter.com/AsiaR_comm
- GitHub <https://github.com/asiar-community>

Join us

- To get updates add your details [here](#).
- To join our active slack community click [AsiaR Slack](#). New member? Join the slack [here](#).
- To host future events update this [sheet](#).
- Sometimes we are on twitter follow us [there](#).