

Notes from the IBI Open Symposium, 14 Nov 2022

Event website: https://brainminds-beyond.jp/satelliteopen@sfn_2022_ibi_data_WG.html

Kenji Doya (Japan Brain/MINDS & Brain/MINDS Beyond, OIST, Japan) opened the event and welcomed attendees.

Jan Bjaalie (EU Human Brain Project, Univ. of Oslo, Norway) was not able to attend in person, therefore he addressed the audience via a video message, introducing the International Brain Initiative (IBI) and its Working Groups.

The new chair and co-chair in the IBI Strategy Committee were announced: Dr. July Illes, CM, PhD, Canada, Dr. Tony Hannan, PhD, Australia.

Kenji Doya continued with the introduction to the IBI Data standards and Sharing Working Group (WG). He introduced the brief history of IBI Data S&S WG, activities and goals of the three taskforces: Data Governance TF, Data Catalog TF, Training TF.

Keynote Talk on Open science at the Allen Institute for Neural Dynamics was presented by Karel Svoboda (Allen Institute, USA). He introduced the Allen Institute mission, organization, the open science strategy and its importance with examples on data re-use in neuroscience. He presented the goals, challenges, approach and progress in trying to bring the community to data in the public cloud, as well as bringing up the question of whether open science means free science.

- Discussion with audience:
 - Libre idea: people should pay individually and not subscriptions, and this cost would be reasonable. Genomics and biobanks in the UK have similar models.
 - Q: Grad programs: most don't have a programming course. How do you train the recent generation to justify the time and effort required – it's hard to convince your PIs this is needed.
A: Often students organise among themselves programming courses – we are getting there.
 - We should not be stuck with one vendor for cloud storage services – we lose the possibility to bargain. We get incredible deals on storage right now

Afterwards a series of flash talks took place. Tom Johnstone (Australia) was set to present at this session, however, he was not able to attend the event.

A call for distributed infrastructures (video record)

JB Poline (Canadian Brain Research Strategy / McGill Univ., Canada)

- Jean-Baptiste Poline presented a call for distributed infrastructure.
- Presented a review article on “in defense of decentralized data management”

The open Metadata Initiative for Neuroscience Data Structures (openMINDS)

Lyuba Zehl (EU Human Brain Project / INM, Germany)

- Dr. Zehl presented the openMINDS – open metadata initiative for neuroscience datasets

Data collection and sharing in Brain/MINDS Beyond human brain MRI project

Saori Tanaka (Japan Brain/MINDS Beyond / ATR, Japan)

- Introduced the data collection and sharing in brain minds beyond human brain MRI project

Data Standardization & Utilization in South Korea

Ja Wook Koo (Korea Brain Initiative / KBRI)

- Implementation research in KBRI
- Database development for national brain research resources
- Data standardization in brain science – an effort in one year to classify molecular and neuroimaging information

The BRAIN Initiative Cell Census Data Ecosystem

Michael Hawrylycz (USA NIH BRAIN Initiative /Allen Institute, USA)

- The brain initiative cell census network – a 5-year program, profiling cell types in the mammalian brain
- There are 4 different BRAIN Initiative data archives

brainlife.io A US BRAIN Initiative distributed cloud computing platform

Franco Pestilli (NSF+NIH BRAIN Initiative/UT Austin, USA)

- Brainlife.io – free and secure reproducible neuroscience analysis platform
- Challenge of reproducible big data neuroscience

GNORDIC: A Global Neuroscience Open Data Challenge

Maryann Martone (UCSD, USA)

- GNORDIC: global neuroscience open reusable data challenge
 - 3 major organizations working on data standards: INCF, IBI, GBC

Three task forces (TF) of the IBI Data Standards and Sharing WG were briefly presented, slides are available however there was no time for detailed questions.

- Data Governance TF: Toward a framework for international data governance
Damian Eke, De Montfort Univ., UK
Franco Pestilli, UT Austin, USA
Matthew Brown, Wellcome Trust, UK
- Data Catalog TF: Developing a dashboard to collect the projects and datasets supported by the various brain initiatives
Sean Hill, CAMH, Canada
Tom Johnstone, Swinburne Univ., Australia
- Training TF: Building capacity to study neuroscience
Sharon Crook, Arizona State Univ., USA



Developing an International Data Governance Framework to Accelerate Global Neuroscience Research
Satellite Symposium at SfN Neuroscience 2022, 14 Nov 2022, San Diego



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