

Interactive Exploration of Multi-Omics Metadata Standards Integration (MOMSI) WG Platform Deliverables Aiding Diverse Technical Domain Data Developments

24th Plenary Meeting Collaborative Notes

Group(s) name(s) organising the session: Multi-Omics Metadata Standards Integration (MOMSI) WG

Session link:

https://www.rd-alliance.org/groups/multi-omics-metadata-standards-integration-momsi-wg/plenary-participation/?application_id=174657

Session scheduled date/time/breakout session: 07.04.2025, Breakout 2, 22:30 UTC

Session slides can be found under <https://doi.org/10.5281/zenodo.15020743>

Session summary (for Group co-chairs)

We will use the content in the table below to highlight your work to the RDA community as a report organised by the Technical Advisory Board.

Please complete ALL fields below by **Friday 25th April, close of business** to be included in the report & social media activities.

Summarise your session in three sentences:

During the [RDA's 24th Virtual Plenary](#) our session...

Key outcomes/actions/takeaways

1. Launch and demo of our new [MOMSI WG GitHub Repository](#) curation workflow capturing activities from our "Landscape Review of Existing Omics Domain Community Standards (Deliverable 1a)". This new repo is built for continuous standard curation (an output supported under RDA TIGER service support funding) as part of our MOMSI WG sustainability plan.
 - a. This deliverable comes with a corresponding interactive web-based dashboard exploration tool "[MOMSI WG Landscape Review Dashboard](#)".
 - b. The MOMSI dashboard curation workflow outputs will be up for Community Review soon, where we will provide a user feedback form (located [here](#)) to open this participation process up to the scientific community. See linked [Contributing](#) page and other guidance docs at the dashboard sidebar.
2. Introduced how our MOMSI dashboard deliverable synchronizes with our [MOMSI Standards Collection](#) at FAIRsharing, which features a backend [multi-omics standards knowledge graph](#) with API access.

- a. *This collection will be used in our last deliverable for our Multi-Omics standard gap analysis output. A good time to join the group if still interested in contributing to these efforts.*
3. *We had a few valuable discussions on community engagement ideas and who our target audience use-cases would be for potential adoption. We will be seeking to build new connections and networks for supporting existing community use-story developments. We were able to make new connections with members from other working groups during this meeting, to which we would like to expand on future collaborations.*
 4. *Looking forward MOMSI is seeking to advance our engagement process through additional RDA TIGER funded services where possible as an essential part of expanding on the work coming from this group.*

Synergies and/or possible collaborations identified with RDA groups and other groups:

- FAIRification of Genomic Annotations WG
- FAIRsharing Registry: Connecting data policies, standards and databases RDA WG
- Life Science Data Infrastructures IG
- Harmonised terminologies and schemas for FAIR data in materials science and related domains WG
- Earth, Space and Environmental Sciences Data
- Physical Samples and Collections in the Research Data Ecosystem IG
- FAIR Mappings WG
- FAIR Data Maturity Model WG
- Discipline-specific Guidance for Data Management Plans WG
- DMP Common Standards WG
- Complex Citations WG
- Artificial Intelligence and Data Visitation (AIDV) WG
- Vocabulary Services IG (VSSIG)
- Metadata Standards Catalog WG
- Persistent Identification of Instruments WG
- ...

Get involved in [RDA Community](#)

This meeting will take place according to the [RDA Code of Conduct](#)

Attendee Check-in

Please complete this table to indicate your attendance (add rows as needed):

Full Name	Affiliation	Location	Email
Lindsey Anderson	PNNL/MOMSI WG	United States	Lindsey.Anderson@pnnl.gov ; lnanderscience@gmail.com
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Collaborative Session Notes *(To be used by participants and chairs during the session)*

- **Link to the slide presentation:** <https://doi.org/10.5281/zenodo.15020743>

General Commentary: Presentation of the WG ongoing work and demo of the Landscape Dashboard.

- Kim: Is MOMSI registered on FAIRsharing as standards? - On FAIRsharing standards typically have a DOI whereas collections don't - MOMSI WG has requested a DOI for the collection - not fully curated but it is in the planning and we will also have a separate one for the repository dashboard.
 - Lindsey: It is on FAIRsharing as a collection, a request has been put in for a DOI for that landing page. See links above.

Kim: Perhaps consider collaboration with the Complex Citations WG.
- Jeff: Fantastic resource, are there plans to include this in a paper to make it more findable beyond the RDA community? And what are the sustainability plans for this resource?
 - Lindsey: Yes, a manuscript is in the works now to present and formalize this work. There is definitely a gap and hopefully our article will give researchers a new post of what is available and what is happening.
 - Lindsey: In terms of sustainability, the google sheet was translated into GitHub and the co-chairs will maintain the repository on GitHub - the google sheet will die as soon as the repository goes live.
 - Gap: We will be pursuing more funding for the engagement part - engaging with the users is the second part of this and there is a lot of

work to be done there. The feedback and community review of this resource will lead to the refinement of this resource.

- Romain: Do you have a status for each field? (mandatory, minimum metadata requirements that are required by the models) The ontologies in particular are something that haven't been fully built-in; there's a unique case for those. We could add a lot more ontologies to the collection - that is something that could still continue to grow. To add it to the dashboard we have a minimum set of metadata that has to be added.
 - Lindsey: Our gap analysis activity will lead to recommendations coming up with specific technical requirements.
- Kim: engagement with the [Digital Curation Network](#) could be really beneficial to get the feedback needed and reach a bigger audience - I could provide a link with this community.
- Romain: part of a network for pandemic preparedness - larger than omics but contains omics - difficulty when adopting something is aligning with what exists already. Impossible to be retrocompatible with everything that pre-exists. You need strong documentation for interoperability.
 - Lindsey: universal tab provides technological flexibility to further advance domain adoption interoperability where needed. This is a use-case by use-case I agree needs to be documented in order to provide transparency for these processes.
- ...