

# BioModelsML Hackathon

## Making Machine Learning Models FAIR and Reproducible

20 & 21 June 2024 - Remote

**Join us** on June 20-21 for a remote Hackathon dedicated to advancing the application of FAIR principles (Findable, Accessible, Interoperable, and Reusable) to machine learning models in the field of life sciences. This event, focused on the BioModels ML project, offers participants a unique opportunity to dive into the FAIR-AIML initiative, enhancing the reproducibility, and utility of ML models, and gaining recognition for your contribution. Learn more about the BioModels ML initiative at [Tiwari et al. 2023 BioRxiv](#) & reproducibility study at [Tiwari et al. 2021 Mol Sys Bio](#).

### What to Expect:

- **Day 1 (10:00 - 11:30 BST):** An introduction to the BioModels ML project and its goals, featuring a talk on the Ersilia Model Hub, followed by a hands-on demonstration on ML model annotation for BioModels. Engage with experts during our interactive Q&A sessions.
- **Day 2 (10:00 - 16:00 BST):** A full day of hands-on activities including annotating your own models, model conversion to ONNX, and efforts to reproduce results for submission to BioModels. The day concludes with a collaborative session where groups share insights and challenges faced during annotation and reproducibility tasks.

### Benefits of Participating:

- Learn how to apply FAIR principles to machine learning models in life sciences.
- Contribute to a community resource of publicly accessible ML models and get recognized.
- Enhance the impact and utility of your models within the scientific community.

This Hackathon is ideal for researchers, data scientists, and developers interested in the intersection of AI/ML and life sciences, looking to make a tangible impact on the reproducibility and accessibility of scientific research. Particularly relevant if you are developing your own ML models and would like to submit them to BioModels.



Register using the link -  
<https://tinyurl.com/FAIR-AIML-2024>



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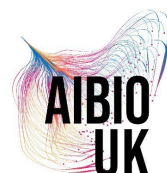


BioModels



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# Programme

## BioModels ML Hackathon: Making Machine Learning Models FAIR and Reproducible

**Dates:** June 20-21

**Location:** Remote

### Day 1: Webinar and Introductory Sessions (10:00 - 11:30 BST)

- **10:00 - 10:30 BST:** Making AIML models FAIR-eR through BioModels ML - Dr. Rahuman Sheriff, EMBL-EBI
- **10:30 - 10:45 BST:** Q&A session
- **10:45 - 11:00 BST:** Curation and FAIRification of Ersilia ML models - Dr. Gemma Turon, Ersilia
- **11:00 - 11:15 BST:** Demo on Model Annotation and Submission to BioModels - Zainab Ashimiyu-Abdusalam EMBL-EBI
- **11:15 - 11:30 BST:** Q&A session

### Day 2: Hacking Session (09:00 - 16:00 BST)

- **Morning Session: Annotation and Submission (09:00 - 12:00 BST)**
  - **09:00 - 09:10 BST:** Introduction to the Hackathon Day
  - **09:15 - 10:30 BST:** Breakout session: model annotation in small teams
  - **10:30 - 11:00 BST:** Break
  - **11:00 - 11:30 BST:** Group summaries
  - **11:30 - 12:00 BST:** BioModel submission process
- **12:00 - 13:00 BST:** Lunch Break
- **Afternoon Session: Reproducibility and Curation (13:00 - 16:00 BST)**
  - **13:00 - 13:10 BST:** Introduction to Model Reproducibility and Curation
  - **13:15 - 14:30 BST:** Model conversion to ONNX &/or model reproduction
  - **14:30 - 15:00 BST:** Break
  - **15:00 - 16:00 BST:** Reproduce any of the publication results &/or submit to BioModels
- **16:00 BST:** Closing Remarks



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