

A European standardization framework for data integration and data-driven *in silico* models for personalized medicine – EU-STANDS4PM

Annual Meeting 2020

Towards standardization guidelines for *in silico* approaches in personalized medicine

27 May online

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INTRODUCTION

EU-STANDS4PM

One of the major goals of EU-STANDS4PM is to assess and evaluate standardization strategies for health data integration as well as data-driven *in silico* approaches for personalized medicine with the aim to bundle European standardization efforts. The project will map relevant European initiatives with regard to data sources (WP1) as well as *in silico* models (WP2). The evaluation of existing *in silico* standardization strategies will also include a distinct focus on the legal and ethical perspective (WP3) to explore possibilities for improved data sharing in collaborative research projects (WP4). This process is the foundation to develop specific recommendation and guidelines (and EU standard documents) for data harmonization/integration strategies as well as data-driven *in silico* approaches to interpret human disease/health data.

To tackle the challenges associated with developing and implementing standards for *in silico* approaches for personalized medicine, EU-STANDS4PM initiated a broad stakeholder consultation process featuring focussed workshops and awareness events, such as the annual meeting 2020. The resulting expert forum aims at analysing the *status quo* of data and model standards and reflects on possibilities for cross-domain data integration to facilitate *in silico* modelling approaches for personalized medicine.

The annual meeting 2020 is an important event to seek input from key stakeholders that have an interest in advancing predictive *in silico* methodologies in personalized medicine – and through broadly applicable standards and harmonized procedures for integration and interpretation of human disease/health data. Thus, the meeting has the following aims:

- > To inform about the latest developments in the project's work packages.
- > To discuss needs and gaps of these stakeholders to prepare the next steps towards a standardization roadmap
- > To reflect on the future strategic orientation of EU-STANDS4PM with its External Stakeholder Advisory Board.

In essence, to pave the way towards standardization guidelines for *in silico* approaches in personalized medicine.

Link to online platform

The annual meeting is organized as online event via the Big Blue Button server.

- > Meeting room access: <https://webconf.fz-juelich.de/b/kir-xzk-zjz>
- > Supported browsers: Firefox and Chrome only (explorer or other browsers don't work!)
- > Presentations: PDF-format only
- > Camera: To save bandwidth, switch on camera only if needed (e.g. when presenting, during discussion)

AGENDA

27 May 2020 – EU-STANDS4PM online meeting

Welcome

09:00 – 09:15 Welcome and overview
Marc Kirschner, Forschungszentrum Jülich, Coordinator

Latest developments in the work packages (30 min presentation/15min discussion)

09:15 – 10:00 1. **WP1** – Data sources and standards for predictions in personalized medicine
WP leader: Niklas Blomberg et al., EMBL-EBI ELIXIR

10:00 – 10:45 2. **WP2** – Integrative data analysis and *in silico* models in personalized medicine
WP leader: Catherine Collin et al., University of Copenhagen

10:45 – 11:00 3. **Virtual coffee break**

11:00 – 11:45 4. **WP3** – Legal and Ethical Review of *in silico* modelling.
WP leader: Mette Hartlev et al., University of Copenhagen

11:45 – 12:30 5. **WP4** – A new Harmonised Data Access Agreement (hDAA) for Controlled Access Data
WP leader: Stephan Beck et al., University College London

Break-out sessions

12:30 – 13:15 1. WP1 / WP2

2. WP3 / WP4

3. ESAB

13:15 – 13:30 4. Outcome break-out sessions

13:30 – 13:45 5. **Virtual coffee break**

Standards, ESAB and conclusions

13:45 – 14:15 1. Chances and challenges in developing standards
Heike Moser DIN; Martin Golebiewski, HITS

14:15 – 14:45 2. External Stakeholder Advisory Board (ESAB)
 Current view and future perspective for EU-STANDS4PM

Ca. 14:45 3. Wrap up and closure

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The EU-STANDS4PM annual meeting is part of the EU-STANDS4PM work package 5 – “Management and Coordination”.

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