University of Stuttgart
Stuttgart Research Center Systems Biology (SRCSB)

Systems Biology Seminar Talk

„Be FAIR! Ways to improve model reuse and interoperability in Systems Medicine"

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Abstract:

The increasing complexity of simulation studies in Systems Medicine demands ways to efficiently share results within and across research groups. The reuse of scientific results using community standards and open model repositories has become common practise. In my talk, I will show how the field moved from paper-based reporting to interactive and reproducible simulation studies. I will introduce the main standards, resources, guidelines, and tools that have been developed by the COmputational MOdeling in BIology Network and can readily be used. I will also discuss missing pieces that in my opinion hinder the uptake of modeling as a tool in the biomedical research domain.

CV:

Dagmar Waltemath studied computer science and specialised in database and information systems at the University Rostock, Germany. After a PhD at the University of Rostock and the EMBL-EBI (Hinxton, UK) she ran an e:Bio Junior Research Group on the standardisation of simulation studies at the Department of Systems Biology and Bioinformatics (University of Rostock). Since December 2018, Dagmar Waltemath is a professor of Medical Informatics at the University Medicine in Greifswald, Germany. Her lab focuses on research data management in biomedicine, data integration across health care providers, and provenance of clinical research data. Furthermore, she is actively involved in COMBINE standardisation efforts (http://co.mbine.org) to improve sharing and reuse of simulation models in computational biology.

More information is available https://www.medizin.uni-greifswald.de/medizininformatik/

**Monday
January 16, 2023**
2 p.m. – 3 p.m.

**Lecture Hall 0.106
Allmandring 31
Stuttgart**

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