Fostering the uptake of RDA indicators in Systems Biomedicine as a measure for model quality and FAIRness within the COMBINE community

What:

For computational models to be applied in systems biomedicine they must be FAIR. This is a cross-community project aiming to reuse the RDA FAIR indicators on simulation experiments in COmputational MOdeling in BIology NEtwork (COMBINE) standards. The project will deliver (1) FAIR model indicators with accompanying guidelines and (2) a semi-automatic FAIR evaluation tool to the community.

Project url: https://fair-ca-indicators.github.io/

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Who:

- Irina Balaur, Postdoctoral Researcher at Luxembourg Centre For Systems Biomedicine (LCSB), University of Luxembourg, Luxembourg

- Dagmar Waltemath, Professor of Medical Informatics at the University Medicine in Greifswald, Germany

Biography:

Irina Balaur is a computational biomedicine researcher, with a solid computer science and biomedical engineering research background she has acquired in academy and industry over 10 years in Romania, Ireland (where she obtained her PhD in 2014), France and Luxembourg. Irina has experience in translational projects including the Cardiovascular HeartMed ERA-Net Cofund in Personalised Medicine project, the large-scale IMI eTRIKS translational research project and the Cancer Epigenetics-focused CIESCI ERA-Net Complexity project. She is a coordinator of the ISCB Translational Medicine Informatics community and of the Metabolism Regulation Maps community project. She is also an Editor of the Systems Biology Graphical Notation (SBGN) project. Irina is a Fellow of the IMI FAIRplus project on FAIR principles and RDA indicators, and of the University of Luxembourg Leadership Academy on key leadership principles.

Her areas of expertise include computational modelling of biomedical com- plex systems, large-scale data management (FAIRification, integration, analysis), development of multiscale models in cancer, exploration of the role of epigenetics in cancer, use of machine learning techniques in biomedical networks, use of systems biology standards. Working in a multi-project environment, she has developed skills to maintain consistent organisation and progress of projects and to proactively develop new goals and ideas.

Dagmar Waltemath is a medical informatics researcher with a background in computer science and biomedical data sciences. She obtained her diploma in database and information systems (University of Rostock, Germany) in 2006. Part of her PhD was spent as a Marie Curie intern at the European Bioinformatics Institute in Cambridge (UK) and at Aas (Norway), working on different standardisation projects fostering reproducibility of scientific results in Systems Biology. Dagmar then received funding from the e:Bio program (Germany) to establish a junior research group for works relating to graph databases and semantic data integration; she became an active member of the Computational Modeling in Biology Network (COMBINE) during that time.

Her areas of expertise include semantic data integration, data standardisation in computational biology, graph databases, information retrieval, and data quality assessment in the context of the FAIR data principles.

Scientific Domain:

Biocomputational models

Your Promotion and Networking:

The project's activities and outputs are [featured on the RDA website](#).

Country:

Luxembourg and Germany