

## Poster Abstract

**Title:** WebProv: A web-based tool to access, store, and display provenance information of simulation models

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### Abstract:

Provenance provides “information about entities, activities, and people involved in producing a piece of data or thing, which can be used to form assessments about its quality, reliability, or trustworthiness” [1]. For simulation models, provenance includes, for example, information about simulation experiments that have been executed, data that has been used as input of the simulation model, or other simulation models a particular simulation model has been based upon [2].

We will present and discuss a first working version of a web-based provenance tool to access, store, and display provenance information of simulation models. The front end includes a query tool that allows the user to search for different keys (e.g., name of cell line) and model dependencies (e.g., model extensions) and displays results graphically and as text.

As an example, we relate different Wnt models to one another by capturing provenance information using the PROV data model standard and show detailed graphs for some of the chosen Wnt models.

### References

[1] Groth, P., Moreau, L.: Prov-overview. an overview of the prov family of documents (2013), <https://www.w3.org/TR/prov-overview/>.

[2] Andreas Ruscheinski, Dragana Gjorgevikj, Marcus Dombrowsky, Kai Budde, and Adelinde M. Uhrmacher. Towards a PROV ontology for simulation models. In International Provenance and Annotation Workshop, pages 192-195. Springer, 2018.