

Towards the complete picture

Citation for published version (APA):

Bohler, A. (2017). *Towards the complete picture: combining modelling and experimental data in a systems biology approach*. Proefschriftmaken.nl || Uitgeverij BOXPress. <https://doi.org/10.26481/dis.20170216abd>

Document status and date:

Published: 01/01/2017

DOI:

[10.26481/dis.20170216abd](https://doi.org/10.26481/dis.20170216abd)

Document Version:

Publisher's PDF, also known as Version of record

Please check the document version of this publication:

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Propositions

1. Annotated interactions make pathway diagrams richer as repositories of information, and better tools for data analysis and visualization [chapter 2].
2. Automation increases reproducibility and makes tasks less error-prone and time-consuming for the user [chapter 3].
3. Visualizing mathematical models, that describe biological processes, as pathway diagrams, can help to understand and improve them [chapter 5].
4. Combining transcriptomics and fluxomics data in pathway analysis helps to understand their relations [chapter 6].
5. For better communication and understanding, biologists and mathematicians should reconcile their models.
6. To allow the sum to be bigger than the parts you first need to see all the parts.
7. We should learn from video games how to teach users through example because manuals are rarely read.
8. The developed approaches will help biomedical researchers to better understand and visualize their data through integrating it with existing knowledge, and thereby develop better strategies to improve health. (valorization)
9. Wider adoption of open approaches will accelerate scientific advancement.
10. There are times in life when people must know when not to let go. Balloons are designed to teach small children this. (Terry Pratchett)