



# TRR 356 PlantMicrobe Seminar 19.05.2026 13:00

Room B01.027 – LMU – Fakultät für Biologie  
Großhaderner Str. 4, Martinsried/Planegg



## Dr. Heidi Seibold: Open Science and Research Software Engineering - Building Blocks for Quality Research

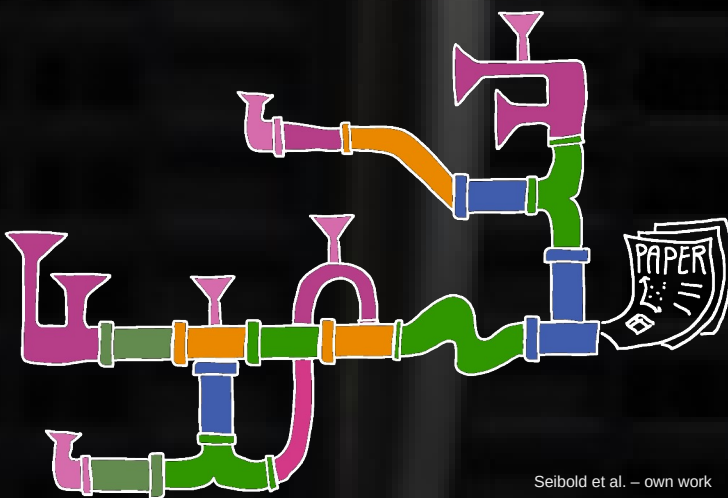
While we keep celebrating and promoting research excellence, we all know that research and academia are plagued by systemic problems that lead to outputs that fall short of what we would call "excellent". The reproducibility crisis in many fields as well as scientific fraud cases are just the tip of the iceberg. One aim of Open Science is to address these quality issues by promoting transparency, collaboration, and rigorous methods that foster reproducibility and accountability.



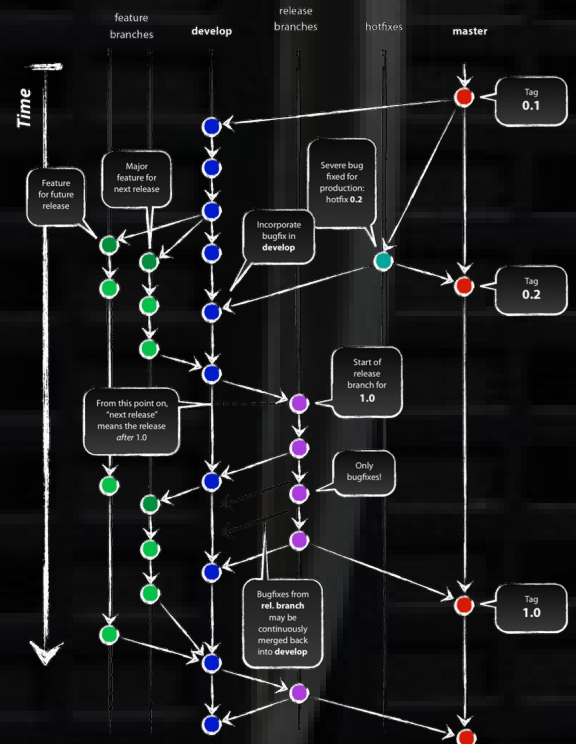
In computational fields, the conversation must extend beyond the quality of papers and data to code and software. Practices such as version control, automation, testing, continuous integration, and environment stabilization not only improve code quality but also make the code easier to maintain and to collaborate among increasingly distributed teams.

In this talk, I will explore the intersection of Open Science and Research Software Engineering. I will outline practical strategies and best practices that researchers can adopt to elevate the quality of their code and, by extension, of their research.

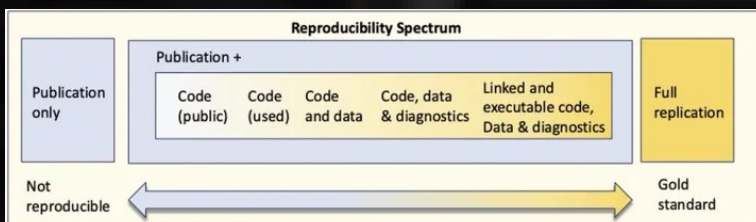
*Dr. Heidi Seibold did her PhD in Biostatistics (with AI focus) and has a research background at the intersection of Data Science, Reproducibility and Medicine. Later, she turned to provide Open Science training and consulting as a solopreneur, dedicating her professional life to improve the way we do research and advocating meaningful, reproducible and trustworthy science. Her professional pathway led her through LMU, the Universities Zürich and Bielefeld and Helmholtz Zentrum München. She is co-executive director of Digital Research Academy, and has been "AI Newcomer of the Year 2021" of the GI. Websites: <https://heidiseibold.com>, <https://digital-research.academy>*



Seibold et al. – own work



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Pfalzner et al. (2026), <http://dx.doi.org/10.3389/fspas.2026.1760522> – CC BY-SA; see also Peng (2011)