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Dr. Ana-Claudia Sima co-leads the Knowledge Representation Unit at the SIB Swiss Institute of Bioinformatics, with the mission to improve how scientific data is shared, connected and reused, both in Switzerland and worldwide. Her work investigates methods for democratising access to the wealth of scientific data, through the convergence of Semantic Web Technologies and Artificial Intelligence. The Knowledge Representation Unit plays an active role across major European initiatives, including several EOSC projects, developing systems that combine knowledge representation with Large Language Models for accurate question answering over federated scientific datasets. This work is reflected in public services such as ExpasyGPT and more recently through contributions to a platform enabling semantic search across data and tools within EOSC.