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Sylvia Le Dévédec is an Associate Professor at the Leiden Academic Centre for Drug Research (LACDR), Leiden University, where she leads the FAIR Leiden Cell Observatory, a national high-content imaging facility serving the Dutch NL-Biolmaging infrastructure. Her research sits at the intersection of quantitative bioimaging and open data infrastructure. She contributes to the development of FAIR-by-design workflows for large-scale bioimaging data and leads two complementary open science infrastructure projects. BIO-CODES (EU OSCARS, Leiden University, and ISCC Foundation) applies ISO 24138 content fingerprinting to scientific image data for the first time, enabling automated provenance tracking, cross-repository deduplication, and AI-ready dataset verification. FAIA (FAIR AI Attribution, developed in collaboration with GO FAIR Foundation, the Leiden University Library, and Liccium BV) extends this provenance layer to support machine-readable disclosure of AI involvement in research outputs, facilitating compliance with the EU AI Act. Sylvia is a Steering Committee member of QUAREP-LiMi, Chair of the LACDR Research Data Management Committee, and co-author of several international community standards papers on reproducible microscopy.