

# Research Data Management with openBIS

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## Abstract

Funding agencies, journals, and academic institutions often require research data to be published according to the FAIR (Findable, Accessible, Interoperable, Reusable) data principles (*Wilkinson et al., Scientific Data, 2016*). To achieve this, every step of the research process needs to be accurately documented. Furthermore, data need to be securely stored, backed-up and annotated with sufficient metadata to allow publication and reusability of data, and to ensure reproducibility of results. The use of an integrated Electronic Lab Notebook (ELN) and Laboratory Information Management System (LIMS), with data management capabilities, can help researchers towards this goal. For over 10 years, Scientific IT Services (SIS) of ETH Zürich and its forerunner unit have actively developed such a platform, *openBIS*, in close collaboration with scientists. *openBIS* (<https://openbis.ch/>) is an open source software that can be used free of charge by any organization. It is currently used by several laboratories in different research fields (e.g. life sciences, material sciences, environmental sciences, etc.) in Switzerland and Europe. In this talk, the main functionalities of the openBIS software will be presented and some example use-cases will be shown.

## Speaker:

Caterina Barillari is Service Manager for Research Data Management (RDM) services at the Scientific IT Services of ETH Zurich. Caterina holds a degree in Pharmaceutical Chemistry from the University of Milan (Italy) and a PhD in Computational Chemistry from the University of Southampton (UK). After working for a few years as a scientist in industry and academia, she joined ETH in 2011 as Software Application Specialist, at the interface between software engineers developing the openBIS software and the users' community, before taking on the current position of RDM Service Manager.

## Zoom-Link:

<https://tuhh.zoom.us/j/82120956997?pwd=UC80RVJuVi9qUDdaZDEyQmZzTGZUZUT09>

