



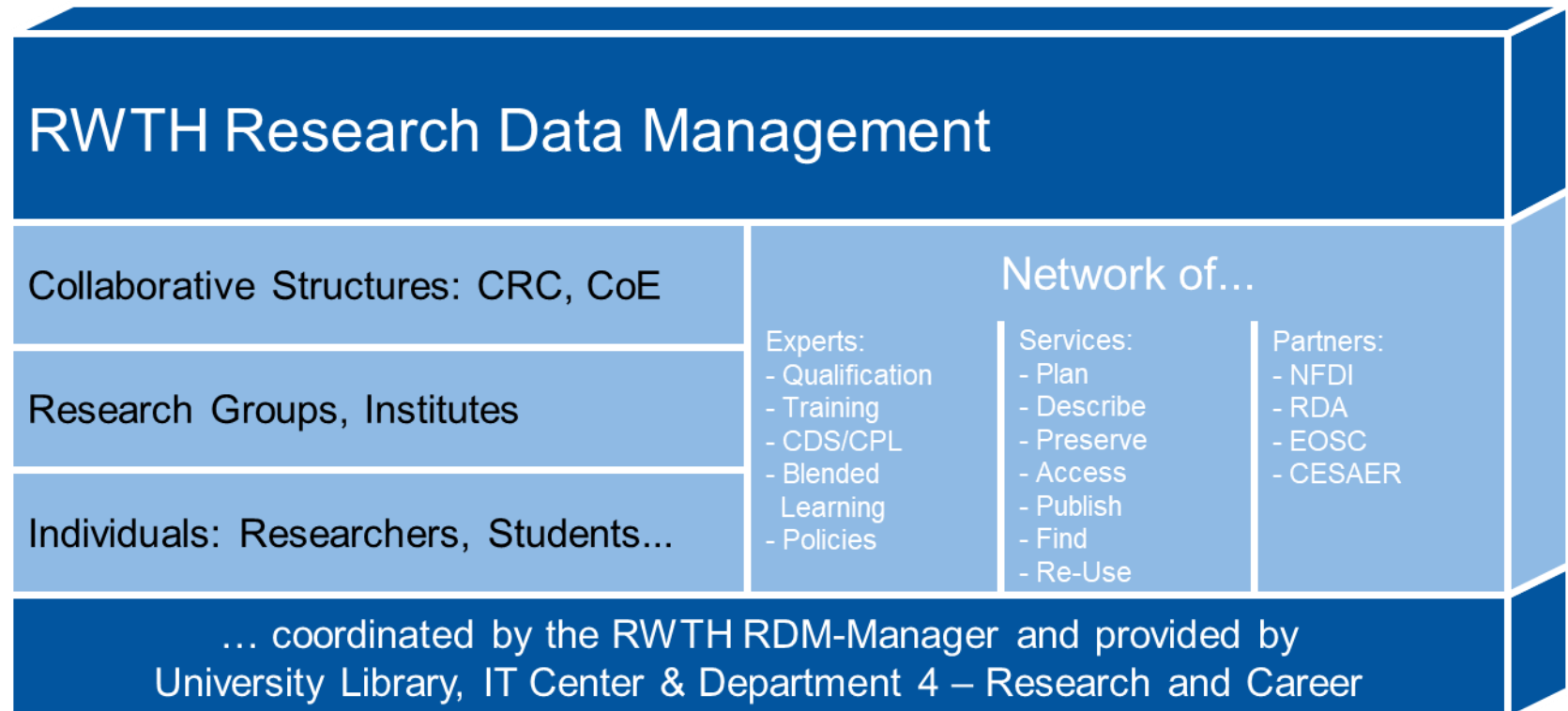
Forschungsdaten-
management

Data Stewards at RWTH Aachen University – New structures and tasks

Daniela Hausen, Lukas C. Bossert
Ute Trautwein-Bruns, Annett Schwarz

Research Data Management – Network-based Approach

RWTH Aachen is dedicated to **Open Science** and the **FAIR** principles in managing research data. Researchers are advised and assisted in following **standards and well-defined processes**. The university provides **professional training, personal support and technical infrastructure** for managing, storing, sharing and publishing research data.



Vision for Research Data Management (RDM) at RWTH Aachen University

RWTH Aachen University aims to implement a state-of-the-art research data management (RDM) to support **Open Science** and implement the **FAIR** principle (Findable – Accessible – Interoperable – Re-usable). The processes and services are integrated **seamlessly into the international research landscape**. With the integration facilitated by the teamwork of users and partners, we improve the **quality of research** as well as the **productivity and motivation of the researchers**.

Strategic elements:

- RDM as key factor to accelerate interdisciplinary research.
- Integrate data as early as possible into a structured and supported RDM data life cycle.
- Ease of use and low barriers to entry are crucial for RDM to be adopted by researchers.
- RDM needs people! Education and training is a key element – start early.
- RDM is a question of trust. Transparency is important.

Aims and tasks of the Data Stewards

Aims

- 1.) Establishment, implementation and further development of a data management concept for the respective project or institute. A unique structure for the researchers should be created, which follows the guidelines of good research practice.
- 2.) Direct support of the researchers in their work to enable quality assurance of the data and to act as a multiplier for RDM at RWTH Aachen University and in their discipline.
- 3.) Linking function and creation of an information channel between the researchers and central RDM team.

Tasks


Differ widely depending on

- the focus of the project
- the working methods of the researchers
- the researchers needs

Data management at CRC 1382 Gut-Liver Axis

CRC startet 07/2019, Data Steward in action since 10/2019

- Establishing a specified DMP-schema
- Introducing RDMO and the DMP-schema to each CRC-project-group
- Coordinating the process introducing an ELN to CRC and UKA/Medicine Faculty
- Weekly (digital) consultation hour
- Organizing data deposition on project`s SharePoint document libraries, establishing workflows for synchronisation between local and remote data
- Maintaining publication database (<https://publications.rwth-aachen.de/record/783071>)
- Currently working on data-specific metadata-standards (facs-files etc.) in collaboration with CRC-members
- Work in Progress: Data Handling Protocol

 CRC1382 GUT-LIVER AXIS
FUNCTIONAL CIRCUITS AND THERAPEUTIC TARGETS

Data Handling Protocol

Steering Committee of CRC 1382
July 17, 2020


In CRC 1382 we pursue an organized and structured research data handling. We are committed to do that according to the FAIR principles.¹ Therefore we are striving for our data to be:

F indable A ccessible I nteroperable R eusable

FAIR principles (source: https://en.wikipedia.org/wiki/FAIR_data#/media/File:FAIR_data_principles.jpg)

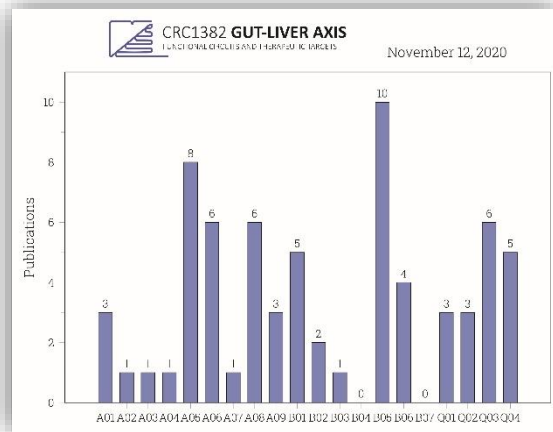
This 'Data Handling Protocol' is structured according to the data life cycle and defines six phases. There are additional information guides for each phase with examples and further detailed information.

Work in Progress



Data life cycle with all phases in an idealised way

... and beyond



2 Project A01

For further information about project A01 see <https://crc1382.org/A01> and for an updated bibliography visit <https://www.crc1382.org/publications>

- Anke Liepel, Philipp Hobbstein, Hendrik Gussen, Jia Xue, Anna C. Aschenbrenner, Thomas Ulas, Lukas Rindgens, Klaudia Theresa Warzecha, Matthias Bartneck, Tom Lüdde, Christian Trautwein, Joachim I. Schultze, Alexander Koch, and Frank Tacke. "Differential Gene Expression in Circulating CD14+ Monocytes Indicates the Prognosis of Critically Ill Patients with Sepsis". In: *Journal of Clinical Medicine* 9.1 (2020), p. 127. doi: 10.3390/jcm9010127.
- Stevn Loomer, Maximilian Franz Schulte-Hager, Philipp Brumers, Frank Tacke, Christian Trautwein, Christiane K. Kuhl, Tom Lüdde, and Christoph Roderburg. "Stroponin is a Negative Prognostic Factor in Patients Undergoing Transarterial Chemoembolization (TACE) for Hepatic Malignancies". In: *Cancers* 11.10 (2019), p. 1803. doi: 10.3390/cancers11101803.
- Tobias Puenzel, Steve De Vos, Jana Hundertmark, Marlene Kohlberg, Nurdan Guldiken, Philippe Puyguet, Manuelle Auberval, Florence Marais, Kenji F. Shio, Laurent Sanjani, Christian Trautwein, Tom Lüdde, Pavel Strnad, Reginald Elys, Philippe Clement-Lacroix, and Frank Tacke. "The Medium Chain Fatty Acid Receptor GPR84 Mediates Myeloid Cell Infiltration Promoting Steatohepatitis and Fibrosis". In: *Journal of Clinical Medicine* 9.4 (2020), p. 1140. doi: 10.3390/jcm9041140.

3 Project A02

For further information about project A02 see <https://crc1382.org/A02> and for an updated bibliography visit <https://www.crc1382.org/publications>

- Sandra Torres, Zainab Abdullah, Maximilian J. Bro. Clara Hellerbrand, Mercedes Fernandez, Romina Pavesio, Sabine Klein, Philipp Köhlschütter, Christian Liedtke, Sophie Loterstein, Yulia A. Nevezova, Hubert Schwaiblmair, Thomas Heberger, Frank Lühdde, Uebner, Frank Tacke, Hal Wesskirchen, and Jörg Tietjck. "Recent Advances in Practical Methods for Liver Cell Biology: A Right Overview". In: *International Journal of Molecular Sciences* 21.6 (2020), p. 2027. doi: 10.3390/ijms21062027.

4 Project A03

For further information about project A03 see <https://crc1382.org/A03> and for an updated bibliography visit <https://www.crc1382.org/publications>

- Tobias Puenzel, Steve De Vos, Jana Hundertmark, Marlene Kohlberg, Nurdan Guldiken, Philippe Puyguet, Manuelle Auberval, Florence Marais, Kenji F. Shio, Laurent Sanjani, Christian Trautwein, Tom Lüdde, Pavel Strnad, Reginald Elys, Philippe Clement-Lacroix, and Frank Tacke. "The Medium Chain Fatty Acid Receptor GPR84 Mediates Myeloid Cell Infiltration Promoting Steatohepatitis and Fibrosis". In: *Journal of Clinical Medicine* 9.4 (2020), p. 1140. doi: 10.3390/jcm9041140.

RDM Newsletter Nr. 9

Home / RDM Newsletter / RDM Newsletter Nr. 9

RDM in CRC1382

RDM Newsletter Nr. 8
RDM Newsletter Nr. 7
RDM Newsletter Nr. 6
RDM Newsletter Nr. 5
RDM Newsletter Nr. 4
RDM Newsletter Nr. 3
RDM Newsletter Nr. 2
RDM Newsletter Nr. 1

How we can share, backup and access our research data at any time.

Storing research data can be a difficult task, even the server-based drives of the CRC network are eventually full, one should not use any external harddrive and that all makes it difficult to exchange any data with members of your project. In this newsletter I will inform about one way to manage your data in a safe, collaborative and easy to use way.

With Microsoft's product SharePoint we have the possibility to improve maintaining and exchanging our research data. There are many things one can do with SharePoint, it is built to be a central hub for a project, community or company.

In CRC1382 we are focusing on the Document Library, which allows to store and exchange data easily. We will also have a look at how to collaborate e.g. in a Word-document simultaneously. We start with some facts, this and other's you can do with the SharePoint of your project.

Topics in RDM

- C
- Class
- collaboration
- maintenance tool
- overview
- D
- digital
- ERP
- ELN
- Exchange
- exchanging data
- F

SharePoint

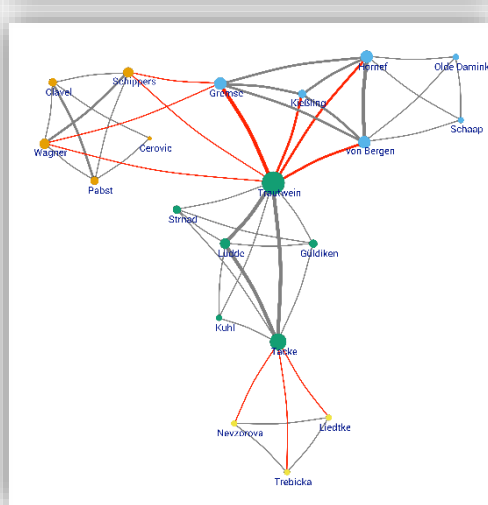
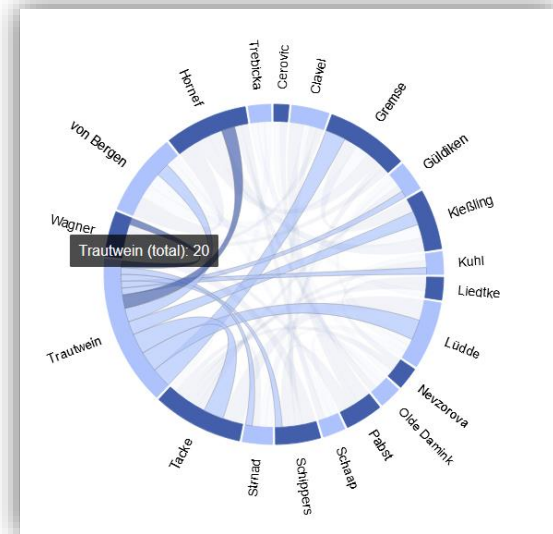
Dr. Lukas C. Bossert

IT Center @ RWTH Aachen University
Tel. + 49 241 80-29280

Email: rhm@crc1382.org
Web: rhm.crc1382.org

Documents

Drag files here



CRC 1382 'Gut-Liver Axis' | RWTH Aachen | UKA

12 Tweets

Gut-Liver Axis

Crosstalk of Gut and Liver in Health and Disease

[Edit profile](#)

CRC 1382 'Gut-Liver Axis' | RWTH Aachen | UKA

@CRC1382

Within the CRC the focus is on understanding and modelling processes that constitute the Gut-Liver Axis.

[Translate bio](#)

Aachen [crc1382.org](https://www.crc1382.org) Joined June 2020

13 Following 20 Followers

CRC1382 GUT-LIVER AXIS

FUNCTIONAL, CIRCUITS AND THERAPEUTIC TARGETS

Home Research Scientists Publications News | Activities Career CONTACT

Research Data Management (RDM)

Home / Research Data Management (RDM)

Research data management (RDM) activities at the CRC are supplemented by a **data management specialist** (50% position in the administrative project Q04). This role serves two main functions: **Firstly**, the data manager is responsible for the coordination and development of all data management efforts within CRC 1382. **Secondly**, the data manager serves as a link between the university's RDM team and the CRC to ensure long-term compatibility of institutional strategies and CRC's needs regarding data management and its underlying infrastructure.

Data Steward

Dr. Lukas C. Bossert
IT Center @ RWTH Aachen University
Tel. + 49 241 80-29280
rhm@crc1382.org
<https://rhm.crc1382.org>

Topics in RDM

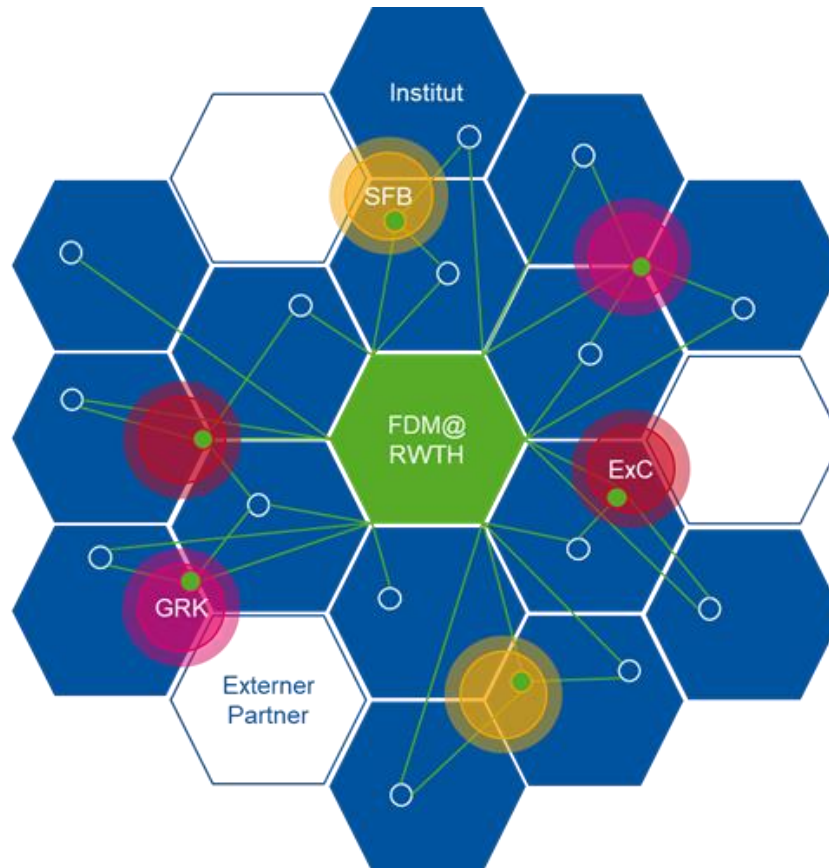
- C
- Class
- collaboration
- maintenance tool
- overview
- D
- digital
- ERP
- ELN
- Exchange
- exchanging data
- F

New structures for RDM at RWTH Aachen University

Open RDM Network Meeting



Mailing list



Workshop



Tandem: RDM expert – Data Steward



Blended Learning

New tasks for central RDM team

- Coordination of the Data Stewards
 - Organisation of the network meeting
 - Time for exchange RDM expert – Data Steward
 - Organisation of workshops

- Further development of the Data Steward concept
 - Development of training materials
 - Integration of Data Stewards in NFDI consortia
 - Responsive of the needs of Data Stewards

- Consultancy with Data Stewards



Focus is shifting

Thank you for your attention!



This presentation is licensed under a Creative Commons Attribution 4.0 International License (<http://creativecommons.org/licenses/by/4.0/>).