

Research Data Management and Central Service Facilities: eResearch Services for researchers at UMG

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eResearch Alliance

Agenda

1. Management of research data
2. The Göttingen eResearch Alliance
 - 2.1. Division Library Medicine (SUB)
 - 2.2. Computing-Services (GWDG)
3. Core facilities at the UMG
4. Ethikkommission at the UMG
5. Data protection officer at the UMG
6. Advisory services at the Department of Medical Informatics
7. Core Facility Medical Biometry and Statistical Bioinformatics
8. Services of the Central Biobank UMG

Example: CRC 1002

Electronic laboratory notekeeping



Paper lab notebook

OCTOBER 15 1998

DIGEST:

2 µl p116 Met25 2.5 µl p6EM6.2HA Eno24/AA
 1.5 µl UNIVERSAL B 4.5 µl UNIVERSAL B
 2.5 µl H₂O 2.5 µl H₂O
 0.5 µl BstHI 0.5 µl BstHI
 0.5 µl EcoRI 0.5 µl EcoRI
 → D CIP

LIGAS:

6 µl p116 Met25
 2 µl Eno24/AA / H₂O
 1.5 µl H₂O
 3 µl T4-LIGASE
 0.5 µl T4-LIGASE

AND TRANSFORM AFTER 4h OF LIGATION

DIGEST TEMPLATE-DNA FOR MAKING RNA:




Electronic lab notebook (ELN)

Close Save as Template Delete Sign

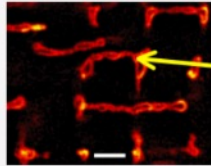
Home / AG Lehnart Demo / Experiments / Experiment 1 based on Template AG Lehnart STED Microscopy Image Acquisition

Name: Experiment 1 based on Template AG Lehnart STED Tags: di-8-ANEPPS, STED, Microscopy, Fluorescence SD381

Microscopy Image Acquisition

Publication Tag Search... AND OR Add Go

Wagner et al. 2012



Signal

Audit: My RSpace Activity
 You can filter this audit by Actions and Date Range
 Get Audit Report

You found 482 hits.

Time	User	Action	Type	Resource	Name
2016-04-21 15:38:12	Dr. Harald Kusch	READ	RECORD	SD381	Experiment 1 based on Template AG Lehnart STED Microscopy Image Acquisition
2016-04-21 12:21:12	Dr. Harald Kusch	READ	RECORD	SD366	Experiment 1 based on Template - AG Lehnart - Western Blot - Immuno detection for Western Blotting
2016-04-21 11:54:56	Dr. Harald Kusch	DELETE	RECORD	SD499	Untitled document
2016-04-21 11:54:56	Dr. Harald Kusch	DELETE	RECORD	SD505	Untitled document
2016-04-21 11:42:08	Dr. Harald Kusch	READ	RECORD	SD353	Template - AG Lehnart - Western Blot - Immuno detection for Western Blotting

Dye: di-8-ANEPPS

Excitation in nm: 490

laser: pulsed diode laser (Pico TA 490, Toptica)

1. Management of Research Data

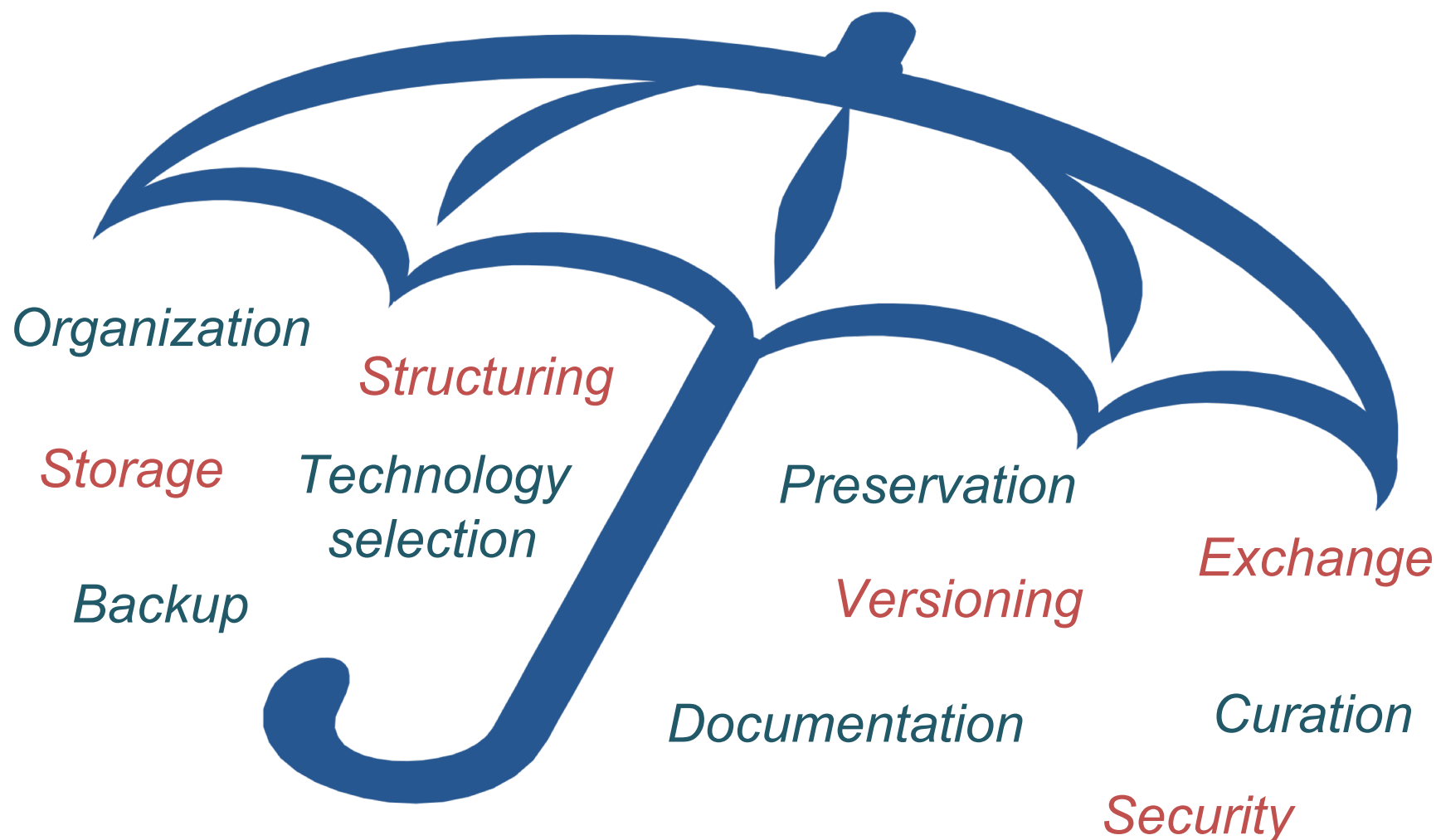


Data are **representations** of observations, objects, or other entities used as **evidence** of phenomena for the purposes of research or scholarship.

(Christine Borgmann 2014)



What is research data management?



Basic questions I

Organization and storage

- Do you find what you need when you need it?
- Are your data stored safely? Have you implemented a backup plan?



Basic questions II

Documentation

- Is the meaning of all the data and processing steps known?
- Is the information still understandable, when you revisit the data at a later time?



Thinking ahead...

Curation and sharing

- Is there a long term plan for the data?
- Can the data be made available for other researchers?
 - Funder's requirements
- Is there a repository or archive where you can store your data?
- What do you need today to support this and ease your daily work?



Research Data Policy of Göttingen University incl. UMG



Göttingen eResearch Alliance

Focus areas

Current page: ▶ Homepage ▶ 28. August 2014: Res...

Aa+

Aa-



Search | Deutsch

28. August 2014: Research data policy of the Georg-August University Goettingen (incl. UMG)

Preamble:

The Georg-August-University Goettingen is committed to diligently preserve results of scholarship, to produce novel results through research, and to make results accessible and reusable for academia and the wider society, now and for future generations. The management, protection, preservation and sustainable provision of research data must therefore be carried out in accordance with recognized standards, meet high expectations and fulfil legal and ethical obligations. The University acknowledges that the implementation of this guideline will depend on the settings and requirements of each subject area.

1. The University promotes and supports open access to research data.
2. Research data are those data collected, observed, simulated, derived, or generated during the course of research.
3. Management of research data includes their planning, collection, processing, and preservation. It ensures the access to, and the reuse, reproducibility, and quality assurance of all research data underpinning research results.
4. Research data management is generally the responsibility of the person leading a project and the researcher who is acting in an individual capacity. A particular responsibility is the adherence to good practices of research as well as standards in their subject area.
5. Research projects with research data require a data management plan that includes but is not restricted to the topics of access rights to research data and necessary precautions for handling them.
6. The University provides support and advice for research data management in the preparatory stages of research projects, during their conduct and after their completion, and provides appropriate training.
7. The University implements and maintains essential services for research data infrastructure that ensures adequate storage and technical availability of digital research data. Specific requirements have to be aligned among all stakeholders and may involve additional funding.
8. Storage and archiving of digital research data is carried out within the technological and informational infrastructure of the University or in acknowledged external or internal subject repositories.
9. The University and its researchers adhere in their research data management to given conditions of ethics, data protection, intellectual property, privacy and disclosure. This leaves regulations untouched that relate to an assessment of research data according to the German employee invention act and specific contractual agreements.
10. If exploitation or publication rights of data were transferred to third parties, it should be a precondition that research data remain openly and freely available for research purposes.

Source: <http://www.uni-goettingen.de/en/488918.html>

Research Data Policy of Göttingen University incl. UMG

- Officially issued on 28th August 2014
- One of the first German universities with such a policy

Current page: ▶ Homepage ▶ 28. August 2014: Res

Aa+

Aa-



Search | Deutsch

- 28. August 2014: Research Data Policy of the Georg-August University Göttingen (incl. UMG)
Preamble
 - Research Data, Research Data Management and its purposes
 - Data Management Plans
 - Support, training and provision of services
 - Storage location
 - Ethical and legal standards
 - Open Access
- eResearch Alliance: support and advice on the implementation of the policy for the Göttingen Campus

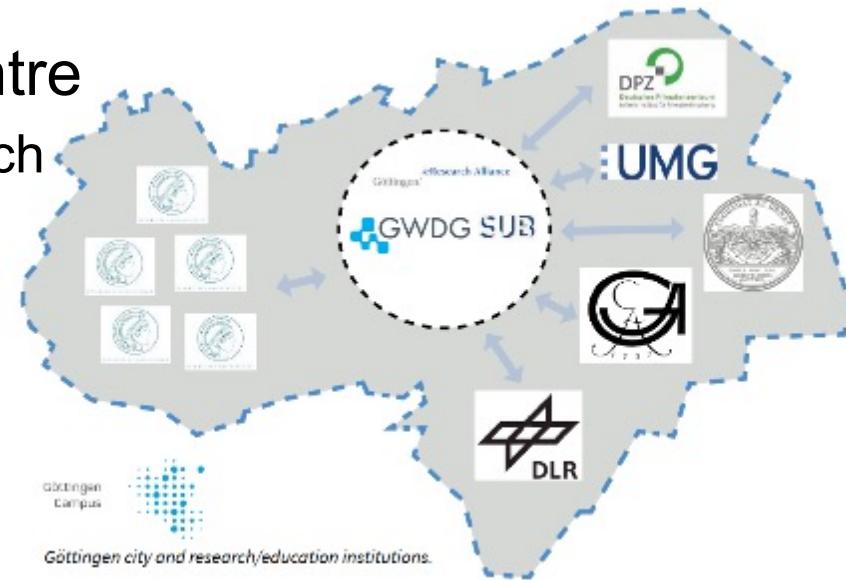
Source: <http://www.uni-goettingen.de/en/488918.html>

eResearch = *enhanced*Research

2. eResearch Alliance

eResearch Alliance

- Run **jointly** by Library and IT-Centre
 - GWDG: ~150 people, 30 in eResearch
 - SUB: ~450 people, 40 in eResearch
- Close **cooperation** with
 - Department of Medical Informatics
 - Research Department
- **Brokering-Office** with currently 5 staff members
 - Team from different disciplines w/ eResearch expertise
 - Actual services and projects in individual organisations
 - Network w/ eResearch experts across the campus
 - Translate discipline-specific into information-infrastructure requirements



eRA Services

Consulting

- Data management requirements
- Data integration
- Data policies
- Legal aspects
- Expert network
- Workshops
- ...

Training

- Data management
- eResearch topics
- Digital literacy
- Expert network
- Network on Open Science
- ...

Digital Services

- Storage
- Computing
- Communication
- Cooperation
- Project participation
- Foster reuse of solutions
- Sustain solutions
- Development of new services
- ...

Open Science Göttingen

- Campus wide network on promoting Open Science
- Göttingen Open Science MeetUp
 - Open Science principles
 - Teaching
 - Data science
- “HackyHour”: Meet, discuss, experiment together with experts on a given topic

<https://pad.gwdg.de/s/OpenScienceGOE#>

<https://hackyhour.github.io/Goettingen/>



GÖTTINGENRESEARCHONLINE

Publications

Publication
data
management

Dspace-CRIS

Data

Research
data
repository

Dataverse

Instruments

Large
equipment
portal

openIRIS

Plan

Data
management
planning

RDMO

...

more
services

GÖTTINGENRESEARCHONLINE

GRO.data

- Research Data Repository
- Based on Dataverse
- For all disciplines
- Storage, exchange, publication
- DOIs
- Individual management of access rights and roles

GÖTTINGENRESEARCHONLINE

Search ▾ User Guide Support Log In

Metrics 622 Downloads Contact Share

Publish your research data! Search, find, and cite data from the Göttingen Campus and beyond.

Göttingen Research Online is an institutional repository for the publication of research data at the Göttingen Campus. It is managed by the Göttingen eResearch Alliance, a joint group of SUB and GWDG. If you are interested in publishing your data here, please see our author instructions and get in touch with us. See our Quick Start Guide

Search this dataverse... Find Advanced Search Add Data

1 to 10 of 33 Results Sort ▾

Image review on mobile devices for suspected stroke patients: Evaluation of the mRay® software solution
May 14, 2019 - Alex Brehm Dataverse
Brehm, Alex, 2019, "Image review on mobile devices for suspected stroke patients: Evaluation of the mRay® software solution", <https://doi.org/10.25625/NDWV9G>, Göttingen Research Online, V1
Supplementary data for paper Image review on mobile devices for suspected stroke patients: Evaluation of the mRay® software solution

Alex Brehm Dataverse (Dienste der GWDG)
May 14, 2019

PDF Copy Of Online Survey
May 3, 2019 - GRACe
Roertgen, Steffen; Harald, Kusch; Claudia Engelhardt; Sven Bingert; Valeria Savin; Inga Kraus, 2019, "PDF Copy Of Online Survey", <https://doi.org/10.25625/R48ZD5>, Göttingen Research Online, V1
This is a PDF copy of an online-survey sent to members of UMG within the GRACe-project. Link to a copy of the online-survey: Online Survey

Survey results
Mar 20, 2019 - Dehradun Dataverse
Hoffmann, Ellen, 2019, "Survey results", <https://doi.org/10.25625/OTNSMI>, Göttingen Research Online, V1, UNF:6:dgChlu7Ry+FFugy9x8e9Q== [fileUNF]
Results of the survey of 100 migrant households in Dehradun, Uttarakhand, Northern India (data digitalized into Excel)

Kandai-images
Mar 20, 2019 - Dehradun Dataverse
Hoffmann, Ellen, 2019, "Kandai-images", <https://doi.org/10.25625/ZW5CW2>, Göttingen Research Online, V1
Time series of land use maps of Kandai village, Uttarakhand, North India

Filters:

- Dataverses (11)**
- Datasets (22)**
- Files (214)**

Dataverse Category

- Research Project (6)
- Researcher (3)
- Department (1)
- Research Group (1)

Publication Year

- 2019 (19)
- 2018 (13)
- 2017 (1)

Author Name

- Hoffmann, Ellen (5)
- Claudia Engelhardt (3)
- Elsner, Ines (3)
- Inga Kraus (3)
- Kusch, Harald (3)

Subject

- Medicine, Health and Life Sciences (14)
- Arts and Humanities (7)
- Agricultural Sciences (6)
- Other (4)
- Physics (2)

Keyword Term

- Applied Art (3)

GÖTTINGENRESEARCHONLINE

GRO.publications

- Publication Data Repository
- Based on DSPACE-CRIS
- Researcher profiles
- ORCID connection
- Export to various formats and citation styles
- Selectable presentation through embedded links

The screenshot shows the 'GÖTTINGENRESEARCHONLINE PUBLICATIONS' interface. At the top, there is a navigation bar with 'GRO', 'Help', 'Login', and 'DE' links. Below this, a search bar is present. The main content area is titled 'Publications' and includes a search bar with 'Search' and 'Reset' buttons, and a link to 'Add Filters'. A pagination bar shows '1-50 of 64954' items, with a list of page numbers (1, 2, 3, 4, ..., 1300) and 'previous'/'next' links. The first two publication entries are visible:

- 2021 | Conference Paper**
Die Sackgassen des Humiliationismus in Metaphysik oder Positivismus
Gisbertz-Astolfi, P. (2021)
In: U. Neumann; P. Tiedemann & S. I Liu (Eds.), Menschenwürde ohne Metaphysik pp. 63-74. 29th IVR World Congress: Workshop "Menschenwürde ohne Metaphysik", Luzern.
Archiv für Rechts- und Sozialphilosophie - Beihefte: Steiner Verlag.
[Details](#)
- 2021 | Book Chapter**
Art. 53 – Der Bundesrat, Teilnahme der Bundesregierung
Schwerdtfeger, A. (In Press)
In: I. von Münch; P. Kunig; J. A. Kämmerer & M. Kotzur (Eds.), Grundgesetz-Kommentar: GG. (7. ed.). C. H. Beck.
[Details](#)
- 2021 | Book Chapter**
Art. 137 – Beschränkung der Wählbarkeit von öffentlich Bediensteten

On the right side, there is a 'Filter' section with dropdown menus for 'Type', 'Date issued', 'Author', 'Subject', and 'Publication Affiliation'.

GÖTTINGENRESEARCHONLINE

GRO.plan

- Data management planning tool
- Based on RDMO
- Versioning and sharing of DMPs
- Goal: campus-specific support

The screenshot displays the Göttingen Research Online (GRO) website interface. At the top, the header includes the 'GÖTTINGENRESEARCHONLINE PLAN' logo and navigation links for 'Language' and 'My account'. The main section is titled 'My Projects' and contains an introductory paragraph about creating a Data Management Plan (DMP). Below this, there is a table with columns: 'Project name', 'My GRO.plan role', 'Creation Date', 'Last updated', 'Selected Catalog', and 'Quick Links'. A 'Create new project' button is visible under the 'Project name' column. To the right, the 'My personal data' section shows the user's name (Timo Gnadt) and email (gnadt@sub.uni-goettingen.de). Below this is a 'Search projects' section with a search input field. Further down, the 'Import as new project' section includes a 'Select file' button and an 'Upload' button. The footer is divided into three columns: 'About' (with links to About RDMO, Terms and Conditions, Privacy, and Imprint), 'Contact' (with support team information and email), and 'Göttingen Research Online' (describing the services and listing GRO.data, GRO.instruments, and GRO.publications).

GÖTTINGENRESEARCHONLINE PLAN Language - My account -

My Projects

In order to start creating a Data Management Plan (DMP), you first need to create a "Project" with a project title, a brief description of your research question(s) or research field, and a catalog of questions for creating the DMP which you can select from a prepared list. Click on "Create new project" below to do so, or click on an already existing project name in the list below to access the project's information.

Project name	My GRO.plan role	Creation Date	Last updated	Selected Catalog	Quick Links
Create new project					

My personal data

Name
Timo Gnadt
Email
gnadt@sub.uni-goettingen.de

Search projects

Search project title

Import as new project

Select file Upload

About
About RDMO
Terms and Conditions
Privacy
Imprint

Contact
Support Team: Göttingen eResearch Alliance
info@eresearch.uni-goettingen.de

Göttingen Research Online
Göttingen Research Online bundles various services for Göttingen researchers:

GRO.data (research data repository)
GRO.instruments (large equipment portal)
GRO.publications (publication data repository)

We support Göttingen Campus researchers with services, best practice trainings and consultations on research data management and eResearch topics

For Researchers

Find support in [planning your data management](#), get information on how to [store, share and publish your research data](#), use [Göttingen Research Online \(GRO\) services](#) or collaborate with [partners on campus](#).

For Students

Learn about eResearch topics in our [Explain! section](#). Become informed on how to request a [training event for your group](#) or use our [training material](#).

For Technical Staff

Check out our [Service Catalogue](#) for eResearch services at the Göttingen Campus or find eResearch offers and solutions from [other organisations](#).

We are here to help you with ...

- > Know-how about storing, sharing, publishing or citing data
- > Organizing training measures on Research Data Management (RDM)
- > Getting support for publishing Open Access

On our pages you find...

- > Information on available services > service catalog
- > Policies and funders' requirements regarding RDM
- > Advice on legal or ethical aspects concerning research data

GET IN TOUCH

www.eresearch.uni-goettingen.de

2.1 Division Library Medicine (SUB)

Dagmar Härter

**Research, Data, Management: Data management basics and services
for your daily research routine at the UMG**

Support and Services at the Medical Library

BBM / SUB Göttingen



NIEDERSÄCHSISCHE STAATS- UND
UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN

Catalogues, subjects, website



Göttingen State and University Library > News

Deutsch



News

- Service monitor & FAQ
- First-time visitor?
- Contact
- Locations & facilities
- Borrowing & renewing

SUB news

Scan & Deliver orders soon possible directly in the Göttingen University Catalogue (GUK)

To further simplify orders for the Scan & Deliver service, from tomorrow, Wednesday 29 April, you can order the desired scans simply via the [Göttingen University Catalogue \(GUK\)](#) with your user account. [Read more >](#)

Gradual opening of our locations

Good news everyone!
We are planning a gradual opening of our locations - of course in compliance with

Service monitor



COVID-19



Quick links

- Access e-journals & e-books
- Additional and test offers

At www.sub.uni-goettingen.de you can find all information regarding the SUB, including all service offers online and offline

Accessing electronic resources from home?

Elektronische Zeitschriftenbibliothek
Niedersächsische Staats- und Universitätsbibliothek Göttingen

Zugangs- und Benutzungshinweise / Nutzungsbedingungen **Aktuelle Informationen zu Zeitschriften von Elsevier und Cell Press** Datenbank-Infosystem (DBIS)

Zeitschriften
Zeitschriftensuche
Liste nach Fachgebiet
Liste nach Alphabet
Liste neuer EZB Titel

Bibliothek
Ansprechpartner
Zeitschrift vorschlagen
Bibliothek auswählen

Information & Service
Über die EZB
Hilfe zur EZB
EZB Dienste

Zeitschriftenliste nach Fachgebiet

Fachgebiet	Anzahl
Allgemeine und vergleichende Sprach- und Literaturwissenschaft, Indogermanistik, Außereuropäische Sprachen und Literaturen	3143
Allgemeines, Fachübergreifendes	7533
Anglistik, Amerikanistik	1404
Archäologie	1217
Architektur, Bauingenieur- und Vermessungswesen	2319
Bildungsgeschichte	412
Biologie	5597
Chemie und Pharmazie	2928
Elektrotechnik, Mess- und Regelungstechnik	1581
Energie, Umweltschutz, Kerntechnik	2345
Ethnologie (Volks- und Völkerkunde)	1556
Geographie	1283
Geowissenschaften	2240
Germanistik, Niederländische Philologie, Skandinavistik	439
Geschichte	4817
Informatik	4041
Informations-, Buch- und Bibliothekswesen, Schrift- und Handschriftenkunde	1575
Klassische Philologie, Byzantinistik, Mittelaltersprache und neugriechische Philologie, Neulatein	518
Kunstgeschichte	2039
Land- und Forstwirtschaft, Gartenbau, Fischereiwirtschaft, Hauswirtschaft, Ernährung	4037
Maschinenwesen, Werkstoffwissenschaften, Fertigungstechnik, Bergbau u. Hüttenwesen, Verkehrstechnik, Feinwerktechnik	2350
Mathematik	2419
Medien- und Kommunikationswissenschaften, Publizistik	1422
Medizin	14989

Die Volltexte der Zeitschriften sind

- ☒ ☐ ☐ frei zugänglich
- ☒ ☐ ☐ für Angehörige der Uni Göttingen freigeschaltet
- ☐ ☐ ☒ nur für einen Teil der erschienenen Jahrgänge zugänglich
- ☒ ☐ ☐ nicht zugänglich, nur Inhaltsverz./Abstracts

[Nutzungsbedingungen](#)

You need to register once as user of the library system with your UMG staff card and receive a password

On the SUB homepage you can then access all electronic resources via the search bar, if you are logged in with your credentials (user number and password)

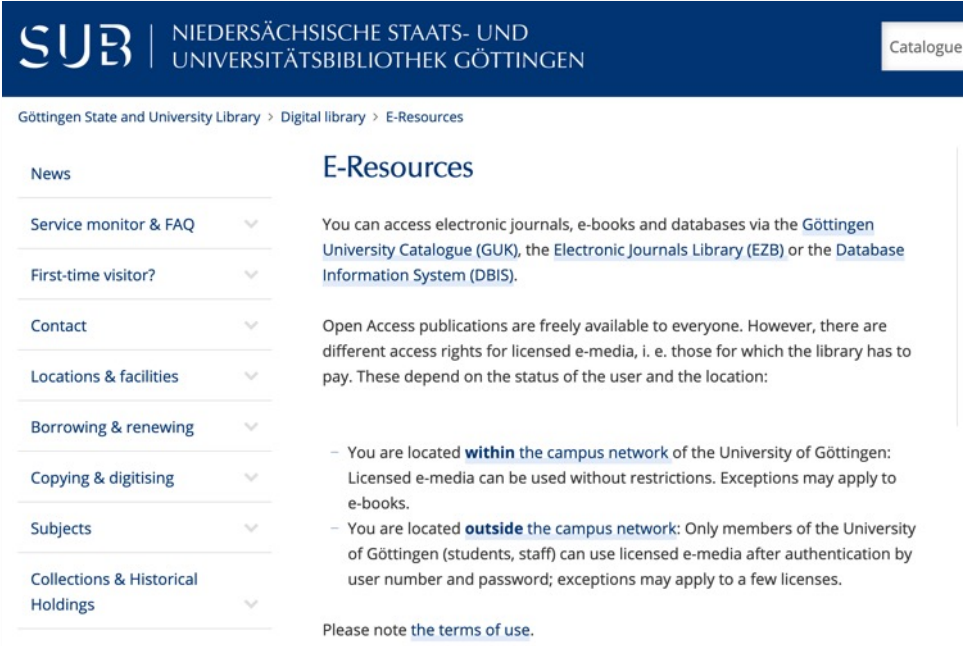
Accessing electronic resources from home?

Here you will find the conditions of access and use, whether to access electronic resources from home or from outside the campus network:

<https://www.sub.uni-goettingen.de/-6WftH>

Prerequisite:

Your data must be entered once in the lending system in the library, then you will receive a password. With this data you can then log in to use the licensed e-resources.



The screenshot shows the 'E-Resources' section of the SUB Göttingen website. The header includes the SUB logo and the text 'NIEDERSÄCHSISCHE STAATS- UND UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN'. A 'Catalogue' button is in the top right. The breadcrumb trail reads 'Göttingen State and University Library > Digital library > E-Resources'. On the left, a sidebar menu lists: News, Service monitor & FAQ, First-time visitor?, Contact, Locations & facilities, Borrowing & renewing, Copying & digitising, Subjects, and Collections & Historical Holdings. The main content area is titled 'E-Resources' and contains the following text: 'You can access electronic journals, e-books and databases via the Göttingen University Catalogue (GUK), the Electronic Journals Library (EZB) or the Database Information System (DBIS).'. Below this, it states: 'Open Access publications are freely available to everyone. However, there are different access rights for licensed e-media, i. e. those for which the library has to pay. These depend on the status of the user and the location:'. A bulleted list follows: '- You are located **within** the campus network of the University of Göttingen: Licensed e-media can be used without restrictions. Exceptions may apply to e-books.' and '- You are located **outside** the campus network: Only members of the University of Göttingen (students, staff) can use licensed e-media after authentication by user number and password; exceptions may apply to a few licenses.' At the bottom, it says 'Please note the terms of use.'

Current information on courses and library offers can be found here:

<https://www.sub.uni-goettingen.de/-cJTgW>

Many offers are already available as online services. Please refer to the current information on the SUB homepage and on our course page.

These offers are also communicated in the library newsletter.



NIEDERSÄCHSISCHE STAATS- UND
UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN

Catalogues,

Göttingen State and University Library > Learning & teaching > Courses & guided library tours



News

Service monitor & FAQ

First-time visitor?

Contact

Locations & facilities

Borrowing & renewing

Copying & digitising

Courses & guided library tours

We cordially invite you to our courses and guided tours in the Central Library (lasting 30 to 90 minutes)! The courses and guided tours will be conducted in English language.

You will find more courses and guided tours in our various locations in German language on the website 'Kurse & Führungen' by clicking on the button 'Deutsch'. Participation in the training courses and library tours is free of charge.

Our [library passport](#) gives you an overview of the courses we offer. It will help you on your way to becoming a library professional by showing you of the courses you have attended, thus documenting your progress.

Virtual coaching

Online offers for download:



Göttingen State and University Library > Learnii

News

First-time visitor? ▾

Contact ▾

Locations & facilities ▾

Borrowing & renewing ▾

Copying & digitising ▾

Subjects ▾

Collections & Historical Holdings ▾

Digital library ▾

Electronic publishing ▾

Learning & teaching ▴

Academic work: tools and methods

Courses & guided library tours

Self-study materials

Individual & group work spaces

Textbooks & semester

- Bibliotheksrallye für Studierende der Politik-, Sozial- und Wirtschaftswissenschaften
- Kursunterlagen zum Herunterladen (PDF 514 KB): Einführung in die Literaturrecherche für Studierende der Sportwissenschaften
- Von der Literaturliste zum Buch: Information für Studienanfängerinnen und Studienanfänger der Wirtschaftswissenschaften (PDF 1,5 MB)
- Zotero-Kursunterlagen zum Herunterladen: Einführung in Zotero mit sozialwissenschaftlichen Beispielen

Medizin

- Bibliotheksrallye für die Bereichsbibliothek Medizin (PDF 376 KB)
- Endnote-Selbstlernkurs für Medizin-Studierende zum Herunterladen
- Endnote Self-Study Material for Medical Students (PDF 648 KB)
- Literaturrecherche für Medizin-Studierende: Wo Sie finden, was Sie suchen! (PDF 1,3 MB)
- PubMed for medical students (PDF 2,5 MB)
- PubMed für Medizin-Studierende (PDF 3,2 MB)
- Zotero-Kursunterlagen zum Herunterladen: Zotero-Selbstlernkurs für Medizinstudierende
- Zugriffsmöglichkeiten auf Volltexte von Zeitschriftenaufsätzen für Medizin-Studierende (PDF 2,0 MB)

Sitemap Kontakt Impressum Datenschutzhinweis (Opt-Out)

Click on
„Learning & Teaching“
-> „Self-study materials“



Then scroll down to
„Medicine“

SUB Göttingen

Benutzerkonten
Öffnungszeiten
Bücherwunsch für Studierende
Kurse & Führungen
f SUB bei Facebook
t SUB bei Twitter
i SUB bei Instagram
Ihre Meinung
Frag die SUB

Universität Göttingen

Universität Göttingen
UniVZ
Lageplan zur Barrierefreiheit
eCampus mit Stud.IP
studIT Online Support
Göttinger Bibliotheken
Mensa-Speisepläne
GWG

Stadt Göttingen

Willkommen in Göttingen
Stadtplan
Verkehrsverbindungen
studieren-in-goettingen.de

Letzte Änderung 25.10.2018

Open Access consultation



Bestände

Digitale Bibliothek

Elektronisches Publizieren

Publizieren

Universitätsverlag Göttingen

Open Science

Open Access

Wo finde ich was?

Open-Access-Publikationsfonds

Verlagsvereinbarungen

Rechtliches

Lernen & Lehren

Projekte & Forschung

Spenden & Fördern

Wir über uns

SUB A - Z

GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN

Webseitensuche Letzte Änderungen Sitemap Kontakt Impressum Datenschutzhinweis (Opt-Out) Feedback Short URL

Open Access an der Universität Göttingen

Die Georg-August-Universität Göttingen (einschließlich der Universitätsmedizin) hat 2016 eine neue [Open-Access-Leitlinie](#) (PDF 1,9 MB), Seite 1895 - 1896, beschlossen und „verfolgt das Ziel, die wissenschaftlichen Ergebnisse ihrer Wissenschaftler und Wissenschaftlerinnen möglichst breit öffentlich zugänglich und nutzbar zu machen. Open Access bereitgestellte Publikationen lassen sich ohne Zugriffsbeschränkungen nutzen. Dies befördert unmittelbar und nachhaltig Forschungs- und Innovationsprozesse in Wissenschaft, Wirtschaft und Gesellschaft. ... Mandate wie das der Europäischen Kommission und des Europäischen Forschungsrates machen die Umsetzung von Open Access für alle geforderten Projekte verbindlich. Diese Leitlinie setzt einen allgemeinen Empfehlungsrahmen für Open Access an der Universität und ergänzt die von der Universität Göttingen verabschiedete Leitlinie zu Forschungsdaten.“

Die Leitlinie aus dem Jahr 2016 ersetzt die [Open-Access-Resolution](#) (PDF 248 KB) der Universität Göttingen von Dezember 2005.

Weitere Unterstützung bietet das Angebot der Göttingen eResearch Alliance. Sie berat Themen wie z. B. Forschungsdatenmanagement, Entwicklung von Datenstrategien für Forschungsprojekte u. a. Darüberhinaus betreibt die SUB Göttingen ein Open-Access-Referat sowie einen Publikationsfonds. Sie engagiert sich in nationalen und internationalen Projekten wie [Confederation of Open Access Repositories](#) (COAR) und [OpenAIRE](#).

Das EU-Hochschulbüro der Universität Göttingen informiert auf seiner Internetseite detailliert über den [Open-Access-Pilot der Europäischen Union](#).

Auf unseren Webseiten finden Sie Informationen zu Fragestellungen wie

- Open Access in den Disziplinen: [Präsentation zu Open Access in der Universitätsmedizin Göttingen](#) (PDF 4,5 MB)
- Gibt es für das Publizieren in Open-Access-Journalen oder bei Verlagen Verlagsvereinbarungen oder Publikationsbeihilfen?
- Ich hatte der SUB Göttingen für meine Publikationen eine Rechteübertragung vor 2007 übertragen und möchte hierzu nochmals die Infos nachlesen?
- [Wo finde ich was](#) zum Thema Verlagspolicies?

Sabine Witt



Platz der Göttinger Sieben 1
37073 Göttingen
Germany
+49 551 39-5290 (Tel.)
witt@sub.uni-goettingen.de

On the SUB homepage, click on „Electronic Publishing“ -> „Open Access“

Here you can find all our service and offers on the topic of publishing Open Access

Research support / Virtual coaching

<https://pad.gwdg.de/ResearchSupport#>

The SUB offers individual consultation hours on various topics, such as:

- finding relevant literature
- academic writing process
- organizing sources
- Word/Excel questions
- statistical methods
- handling research data

Research Support



Having trouble finding relevant literature for your term paper or thesis? Feeling like you're losing track of your ideas and struggling with structuring your essay? Problems quoting or formatting in MS Word or MS Excel? Your reference management programme isn't doing what you want it to?

The Research Support is here to help you! Find answers to all of your questions to complete your term paper or thesis quickly and successfully.

Time and place

Also to use for free: The library's makerspace



3D printer for testing purposes

3D anatomy table for virtual dissection



(Almost) Always there for you:

- Monday – Friday from 8 – 24
- Saturday, Sunday and Holidays from 8/10 – 22/20
- By phone: 39-8395
- By email: bbmed@sub.uni-goettingen.de



- <https://www.sub.uni-goettingen.de/en/locations-facilities/locations-and-opening-hours/medical-library/>

2.2. Computing Services (GWDG)

Prof. Dr. Philipp Wieder

A large banner for "GWDG CLOUD SERVER". The background is a blue gradient with white binary code (0s and 1s) and a large, fluffy white cloud in the center. On the left and right sides, there are images of tablets and smartphones displaying binary code. Navigation arrows (left and right) are visible on the far left and right edges. At the bottom, there is a white text box with the German sentence "Erhalten Sie dynamische Rechenleistung, Anwendungen oder IT-Dienste, die mit Ihren Anforderungen wachsen." and the text "GWDG CLOUD SERVER" in a large, blue, sans-serif font.

Professor Dr Philipp Wieder

Gesellschaft für wissenschaftliche Datenverarbeitung mbH

- **Public authority: Göttingen University & Max Planck Society**
- **Operation of Computing Center, parallel computers, networks, Campus-WLAN**
- **~ 150 Employees, > 20.000 WLAN devices online per day, certified acc. to ISO 9001**
- **IT-research institution**
 - Leadership and Participation in national and international research projects
 - Research Leitung- und Mitarbeit in nationalen und internationalen Forschungsprojekten
 - Research foci:
 - Data management & electronic research infrastructure
 - Virtual research environment & innovative digital tools
 - Data analysis, visualisation and big data technologies
 - Cloud Computing
 - Next-Generation Networking

Portfolio Services for the Sciences



SERVICES

Storage Services

- Data Archiving
- Backup
- File Service
- GWDG ownCloud
- Cryptshare

E-Mail Collaboration

- E-Mail-Service (MS Exchange 2016)
- Spam and Virus Filtering
- Mailing Lists
- MS Sharepoint
- Managed Services
- Project Management Service
- GWDG Pad
- ShareLaTeX
- Rocket.Chat
- GWDG Web-Office
- GitLab

Server Services

- Virtual Server
- Housing of Servers
- Web Hosting
- GWDG Cloud Server
- FTP-Server

Network Services

- IP Address Management System
- System Monitoring
- Setting up eduroam
- Integration into the Active Directory
- User Management with OpenLDAP
- Client Management for Windows
- Client Management for macOS and iOS

Application Services

- Persistent Identifier (PID)
- Library Service Aleph
- Library Service Koha
- Databases
- Application and Registration Services
- Plagiarism Prevention
- Online Surveys
- Bioinformatics Programs
- Statistics Programs
- Jupyter
- Pseudonymisation and Data Trusteeship

IT Security Services

- Vulnerability Scans on Network-attached Equipment
- Public-Key-Infrastructure (PKI)
- Virus Protection (Sophos Update Service)

General Services

- Videoconferencing
- Identity and Access Management [MPG]
- Identity and Access Management [Uni]
- Single Sign-on (SSO) /Authentication and Authorization Infrastructure (AAI)
- Software and Licence Management
- Computer Lending Pool
- General Services - Print & Scan Services

IT Consulting

- Scientific Data Management
- IT Security
- Hardware Purchase
- Apple Support Centre
- Establishing Directory Services (AD, LDAP)
- Planning of Data Transmission Networks

Example Infrastructure

GWDG Cloud Server



„Virtual“ Computer for researchers, working groups and projects

- Computer per self-service
- Suited for arbitrary applications
- Allocatable in different sizes
- Complete control over virtual computer
- Own IP address
- Operated in Göttingen

Our Private Cloud for your dynamic, safe and scalable computing power

Server



Create your own virtual machines and use up to 3 servers for your applications

Processor



Choose the computing strength of your machine and assign up to 12

Memory



8.0 / 24.0 GB

Assign up to 24.0 GB of memory to your virtual machine to match your

IP Address



Grant world wide access to your virtual machine by assigning a public ip

Compute optimized

c1.small



2 Cores
2 GB RAM
20 GB Disk

c1.medium



4 Cores
4 GB RAM
40 GB Disk

c1.large



8 Cores
8 GB RAM
80 GB Disk

c1.xlarge



16 Cores
16 GB RAM
160 GB Disk

c1.xxlarge



16 Cores
16 GB RAM
160 GB Disk

Images



CentOS
CentOS 6.6 Server x86_64



CentOS
CentOS 7.1 Server x86_64



Debian
Debian 7.8 Server x86_64



Fedora
Fedora 20 Desktop GNOME x86_64



Fedora
Fedora 20 Desktop KDE x86_64



Fedora
Fedora 20 Server x86_64



openSUSE
openSUSE 13.1 Desktop GNOME x86_64



openSUSE
openSUSE 13.1 Desktop KDE x86_64



openSUSE
openSUSE 13.1 Server x86_64



Scientific Linux
Scientific Linux 6.6 Server x86_64



Scientific Linux
Scientific Linux 7.1 Server x86_64



Ubuntu
Ubuntu 12.04.5 LTS Server x86_64

Example collaborative work

A selection



Kollaboration

- Hosted, private wiki (*eMail to support@gwdg.de*)
- Own Mailinglists: <https://www.gwdg.de/e-mail-collaboration/mailling-lists>
- Cooperative work on texts: pad.gwdg.de
- Sharing documents: owncloud.gwdg.de / cryptshare
- Online work on Office documents: owncloud.gwdg.de
- Live cooperative work on LaTeX-Documents: sharelatex.gwdg.de
- Web- / Team-Chats (like Slack): chat.gwdg.de
- Software development / Project management: gitlab.gwdg.de

Administration of projects and software development

- Web-based project management with large choice of functionalities for supporting the project life cycle
- Features
 - Wiki
 - Management of tasks
 - Time management
 - Document repository
 - User management
- Integrated Git- and SVN-Repository for software development
- Integration into own development environment possible
- Project areas, in which you can create or manage projects by yourself
- projects.gwdg.de

Diverse solutions and platforms

VIDEOCONFERENCING

The general [GWDG](#) offer for videoconferencing is the DFNconf service. It is operated by the DFN-Verein, of which the [GWDG](#), [MPG](#), and the University of Göttingen are members.

Currently, however, there are performance bottlenecks due to the strongly increased usage, so that the DFNconf service is not available in the usual stable manner. More information, also regarding the utilization of the service due to the current COVID-19 situation, can be found on web pages of the the DFN-Verein: <https://www.conf.dfn.de>.

The [GWDG](#) has therefore decided to include alternative offers in its portfolio in order to bridge this phase for customers and provide suitable solutions. These are commercial, payed cloud offers where the information leaves our own jurisdiction. We can therefore not guarantee data protection and these services are not permitted for sensitive and/or personal data. We ask you to take this into account when using them.

Community solutions operated by the GWDG

- [BigBlueButton](#) (operated by the [GWDG](#)): After a successful test operation at the [GWDG](#), a new production operation has been setup under <https://meet.gwdg.de/>; Suitable for groups of up to 100 participants. Currently, telephone dial-in under first test. Higher stability than Jitsi.
- [DFNconf](#) (operated by DFN-Verein): Currently only limited use.
- [Jitsi](#) (operated by [GWDG](#)): Open source solution, suitable for videoconferencing with smaller numbers of participants. With more than 10 participants the quality fluctuates. A [GWDG](#) hosted version of Jitsi might come back in the future. We currently offer [BigBlueButton](#) instead.

Commercial, external platforms

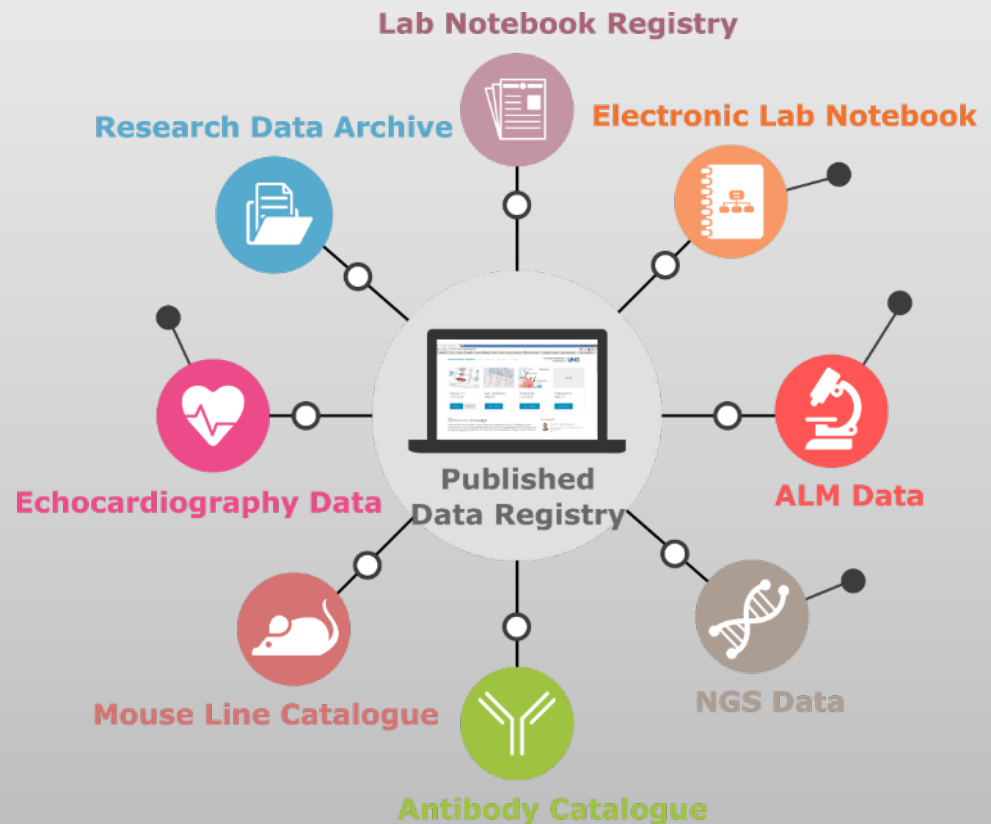
- [Zoom](#)
 - Cloud-based, critical in terms of data protection, scales well for larger subscriber numbers.

– Table of Contents

- Videoconferencing
 - Community solutions operated by the GWDG
 - Commercial, external platforms
 - Evaluation and recommendations especially for the University of Göttingen
 - Assessment for courses
 - Alternatives
 - Microsoft Teams
 - Limitations and challenges
 - Media server of the GWDG

Support of researchers from different disciplines

- **Goals**
 - Traceability
 - Transmission of data to community repositories
- **Collection & Documentation of**
 - Publications
 - ALM data
 - NGS data
 - Supersonic data
- **Connection of**
 - Publications
 - Antibodies
 - Lab notebooks
 - Mouse-Genome-Lines



Your personal contact with us



+49 551 201 1523

Contact our hotline



support@gwdg.de

Send us an email and we will contact you soon



support.gwdg.de

Check your tickets
(Account required)



www.gwdg.de/docs

www.gwdg.de/faq

Docs & FAQ



New here?

A brief overview of frequently asked questions

[Request account](#)

[Change password](#)

[Check email](#)

[Wi-Fi \(eduroam\)](#)

[Download Antivirus Software](#)

[Print](#)

[Buy Software](#)

[Courses](#)

3. Ethikkommission at the UMG

Judith Friedrich

Information event „Research Data Management and Central Service Facilities at the UMG“

- ▶ Office of the “Ethik-Kommission”
(ethics committee)
- ▶ Where? Von Siebold-Str. 3
- ▶ When? Monday-Friday
9:30–12:00



Info-Veranstaltung
"Datenmanagement und Service-
Einheiten an der UMG"

„Ethik-Kommission“

- ▶ Purpose of the Ethik-Kommission (What does the Ethik-Kommission do?)
 - The Ethik-Kommission is an independent body whose purpose is to evaluate the ethical and legal aspects of biomedical research involving human subjects. As laid down in the Declaration of Helsinki, also research projects **involving patient data** have to be approved by an research ethic committee.
- ▶ Responsibility of the Ethik-Kommission of the UMG
 - The Ethik-Kommission of UMG is responsible for members and dependants of the Medical Faculty of Göttingen and its teaching hospitals.

Ethik-Kommission

- ▶ Method of operation (How does the Ethik-Kommission work?)
 - The Ethik-Kommission only reacts to applications by giving an evaluative statement.
 - Holds a non-public meeting once a month
 - Gives a written notice to the applicant of its decision

The Ethik-Kommission consists of:

- ▶ 9 members and some deputies
- ▶ medical doctors, paramedical staff, experts in statistics and ethics, lawyers
- ▶ all members act on a voluntary basis

Persons of contact

- ▶ Chairman: Prof. Dr. Brockmöller
- ▶ Manager: Mrs. Wettschereck

- ▶ Contact persons

for “other” studies and studies involving medical devices

Mrs. Dr. Friedrich
Mr. Langer

- ▶ Secretary: Mrs. Gödicke

Studies (1)

- ▶ **AMG–Studies** (studies involving pharmaceuticals)
Studies regulated by “Arzneimittelgesetz”
- ▶ **MPG–Studies** (studies involving medical devices)
Studies regulated by “Medizinproduktegesetz”

Studies (2)

▶ “other Studies”

- Research projects with “Beratungspflicht” by MBO (Operating researchers are obliged to consult the Ethik-Kommission’s advice)
- Possibility of accepting the vote of another Ethik-Kommission (Übernahmevotum)
- Retrospective data analysis studies: possibility of a shortened approval process

Comprehensive consultation:

- ▶ Make an appointment ☐
- ▶ For further information, please refer to our website:

www.ethikkommission.med.uni-goettingen.de

4. Datenschutzbeauftragter der UMG

Dr. Thomas Langbein

Research and Data Protection

Germanys constitution (GG):

- 1. Derived from Art 1 and 2 → Right of informational self-determination**
- 2. Freedom of Research and Teaching, Art 5(3) GG**



Personal data are subjected to the national Laws of data protection and – since 25th of May 2018 – also European legislation

Research and Data Protection

Laws:

- German Data Protection Act (BDSG)
- Federal Data Protection Laws (e.g. NDSG)
- European General Data Protection Regulation (GDPR/ EU-DSGVO)



On principle: Processing of personal data is prohibited ... except it is allowed by other laws or regulations OR by permission of the person concerned. („Prohibition with Reservation of authorisation“)

Research and Data Protection

But: There are special facilities for research projects!

DSGVO: Article 89 *Safeguards and derogations relating to processing for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes* (Link: <https://gdpr-info.eu/art-89-gdpr/>)

Lower Saxony Law of Data Protection (NDSG): § 13
Processing of personal data in research projects

(Link: http://www.voris.niedersachsen.de/jportal/portal/t/124p/page/bsvorisprod.psm/action/portlets.jw.MainAction?p1=j&eventSubmit_doNavigate=searchInSubtreeTOC&showdoccase=1&doc.hl=0&doc.id=jlr-DSGND2018pP13&doc.part=S&toc.poskey=#focuspoint)

German Law of Data Protection (BDSG neu): § 27 – Data processing for scientific or historical or statistical purposes

(Link: <https://dejure.org/gesetze/BDSG/27.html>)

Research and Data Protection

Declaration of confidentiality *(see page 6)*

Data access agreement *(see page 7)*

TMF-Working Groups to data
protection in research projects

(Link: http://www.tmf-ev.de/Arbeitsgruppen_Foren/AGDS.aspx)

Research and Data Protection

Declaration of confidentiality

VERPFLICHTUNG AUF DIE VERTRAULICHKEIT

Im Rahmen der Dokumentations- und Nachweispflichten des Art. 5 Abs. 2 DS-GVO (Accountability) ist die Verpflichtung der zur Verarbeitung befugten Personen auch weiterhin als probates Mittel anzusehen, um die Einhaltung datenschutzrechtlicher Vorschriften von vornherein zu gewährleisten. Dies zeigt sich unter anderem am Regime der Auftragsverarbeitung (AV), welches in Art. 28 Abs. 3 lit. b DS-GVO die Verpflichtung auf die Vertraulichkeit zumindest beim Dienstleister ausdrücklich als Pflichtinhalt des AV-Vertrages vorsieht.

Darüber hinaus legt Art. 32 Abs. 4 DS-GVO fest, dass sowohl Verantwortliche als auch Auftragsverarbeiter Schritte zu unternehmen haben, um sicherzustellen, dass die unterstellten Personen mit Zugang zu personenbezogenen Daten nur auf Anweisung des Verantwortlichen tätig werden. Art. 29 DS-GVO bezieht sich ebenfalls auf diese eindeutig weisungsabhängige Verarbeitung. Hierzu gehört es, unmissverständlich auf die Bedeutung und den Umfang datenschutzrechtlicher Regeln hinzuweisen und Mitarbeitern etwaige Risiken von Gesetzesverstößen vor Augen zu führen.

Der Bundesgesetzgeber hat im Rahmen der Umsetzung der Richtlinie 2016/680/EU für den Datenschutz in Polizei und Justiz an der förmlichen Verpflichtung festgehalten. § 53 BDSG n.F. verwendet insoweit sogar den hergebrachten Begriff des Da- tengeheimnisses. Was im öffentlichen Bereich recht ist, kann daher im nicht-öffentlichen Bereich nur billig sein.

Bei berufs- und standesrechtlicher Verschwiegenheitspflicht ist das Weglassen einer Verpflichtung für mitwirkende Personen gem. § 203 Abs. 4 Satz 2 Nr. 1 StGB ggf. sogar strafbewehrt, falls die mitwirkende Person unbefugt fremde Geheimnisse offenbart.

Research and Data Protection

Data access agreement

UNIVERSITÄTSMEDIZIN GÖTTINGEN **UMG**Datenschutzbeauftragter der UMG
Tel.: 0551 39 22762
E-Mail: datenschutz@med.uni-goettingen.de

Datenzugriffsvereinbarung/2017

Bitte ausgefüllt (Seite 1-2) an den Datenschutzbeauftragten senden. Falls keine Rückfragen sind, erhält der Antragstellende Seite 1 zurück und kann damit im Zentralarchiv die benötigten Patientenakten anfordern bzw. bei elektronischem Zugriff einen Ixserv-Account im G3-7 Informationstechnologie (Sachgebiet Klinische Systeme) beantragen.

An den
Datenschutzbeauftragten der Universitätsmedizin Göttingen

Telelift 142

Per Fax: 39 - 12726 Als gescanntes Dokument (PDF) an: datenschutz@med.uni-goettingen.de

1. Persönliche Daten des/der Antragstellenden

Name		
Privatanschrift		
Telefon/E-Mail		
Abteilung/Klinik		

2. Thema des Forschungsvorhabens:

--

3. Zweck: ☐ Promotion ☐ Habilitation ☐ Sonstiges Forschungsvorhaben

4. Folgende Patientendaten werden benötigt (z.B. Patienten der Klinik... Zeitraum... Diagnose ...):

--

→ weiter mit Nr.5

Unterschrift des Datenschutzbeauftragten

Stand 02/2016

Unterschrift der Archivleitung bzw. der Leitung der
speichernden Stelle

1

Research and Data Protection

Keep in contact

Dr. Thomas Langbein

Tel.: 39-22762

E-Mail: datenschutz@med.uni-goettingen.de

<https://www.umg.eu/ueber-uns/vorstand/stabsstellen-beauftragte/beauftragte/datenschutzbeauftragter/>



5. Core facilities at UMG

Dr. Marie Hedderich

Central Core Facilities

- ▷ **Central Animal Facility** (*Dr. Riedesel, sekretariat.zte@med.uni-goettingen.de, 39-63900*)
- ▷ **Central Biobank UMG** (*PD Dr. Nußbeck, biobank@med.uni-goettingen.de, 39-65700*)
- ▷ **Central Research Workshop Facilities** (*Mr. Lott, clott@gwdg.de, 39-5924*)
- ▷ **Clinical Trials Unit UMG** (*Mr. Bredenkamp, studienzentrum-umg@med.uni-goettingen.de, 39-60812*)

Scientific Core Facilities

- ▷ **NGS-Core Unit for Integrative Genomics (NIG)** (*Dr. Salinas, gsalina@gwdg.de, 39-60778*)
- ▷ **Proteomics** (*Dr. Lenz, proteomics.ms@med.uni-goettingen.de, 39-65192*)
- ▷ **MR-Research in Neurosciences** (*PD Dr. Dechent, mrserviceeinheit.sekretariat@med.uni-goettingen.de, 39-13140*)
- ▷ **Medical Biometry and Statistical Bioinformatics**
(*Dr. Leha, service.biometry.bioinformatics@med.uni-goettingen.de, 39-4987*)
- ▷ **Cell Sorting** (*Prof. Wulf, cellsorting@med.uni-goettingen.de, 39-8427*)
- ▷ **MR-Research in Cardiovascular Imaging** (*Prof. Dr. Christian Ritter, christian.ritter@med.uni-goettingen.de, 39-68881*)
- ▷ **Medical Data Integration Center (MeDIC)** (*Prof. Dr. Tibor Kesztyüs, tibor.kesztyues@med.uni-goettingen.de, 39-61531*)

Where to find information?

<https://www.umg.eu/en/research/science-support/scientific-infrastructure/core-facilities/>

Core Facilities

University Medical Center Göttingen

Core facilities have been set up in selected areas to methodological support and promote research at the University Medical Center Göttingen (UMG). This process enables the efficient and sustainable provision of specific scientific services and infrastructures and leads to an improved utilization of highly specialized equipment. In addition, the transfer of subject matter expertise is promoted and expanded.

The UMG has three central core facilities. In addition, six scientific core facilities are established and listed to scientific departments of the UMG in order to ensure long-term high standard methodical expertise.

Central core facilities



Central Biobank

[Read more](#)



Central Scientific Workshop

[Read more](#)



Central Animal Facility

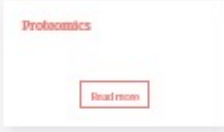
[Read more](#)

Scientific core facilities



NCS Facility for Integrative Genomics

[Read more](#)



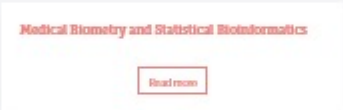
Proteomics

[Read more](#)



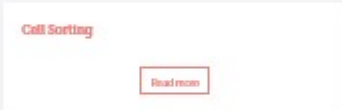
MR-Research in Neurosciences

[Read more](#)



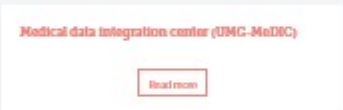
Medical Biometry and Statistical Biominformatics

[Read more](#)



Cell Sorting

[Read more](#)



Medical data integration center (UMG-MeDIC)

[Read more](#)



MR-Research in Cardiovascular Imaging

[Read more](#)

- Contact details
- User regulations
- User fees
- Catalogue of services
- Application form

Please contact the facilities in advance to plan and calculate the costs of the experiment!

Application for flat-rate user fees and costs for keeping laboratory animals

DFG-Vordruck 55.03 – 12/20

Seite 1 von 1

Hinweis

Richtwerte für die Beantragung von Tierkosten

guide values for basic animal husbandry:

- 0,75 € per mouse/week
- 1,50 € per rat/week

separate application for animal purchase

DFG-Vordruck 55.04 – 12/20

Seite 1 von 13

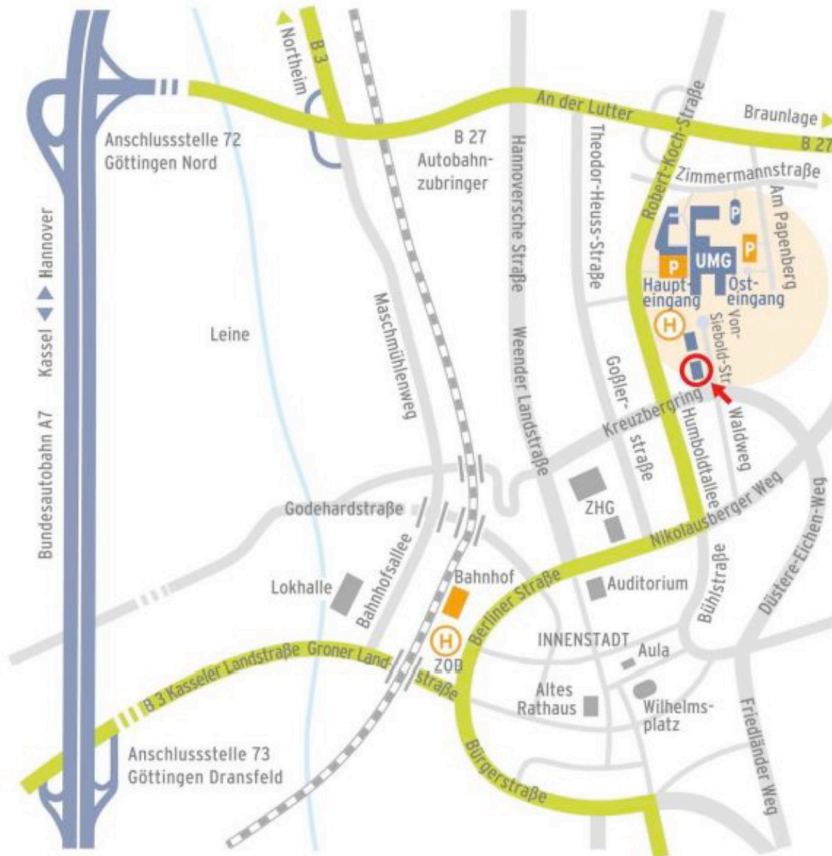
Hinweise

zu Gerätenutzungskosten und zu Gerätezentren

- Magnetic resonance imaging
- Mass spectrometry
- Advanced light microscopy
- Electron microscopy
- NMR spectroscopy
- Flow cytometry

It can only be applied for project-specific costs!

Contact Details – Forschung und EU-Büro



Forschung und EU-Büro
Von-Siebold-Str. 3, 37075 Göttingen
forschung@med.uni-goettingen.de

6. Advisory services at the Department of Medical Informatics

Dr. Harald Kusch

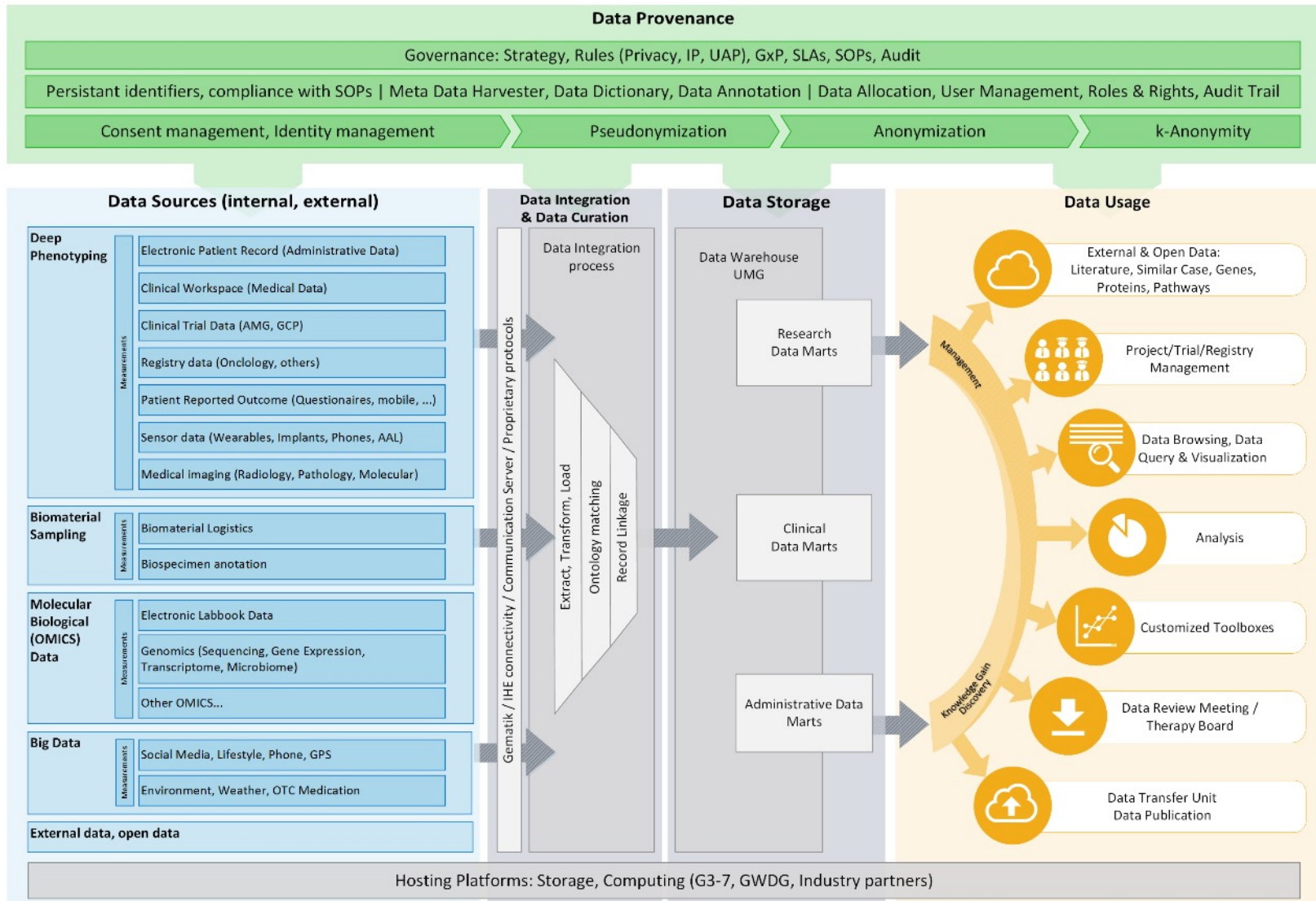
mi.med.uni-goettingen.de



Advisory services at Department of Medical informatics

- Support for design of scientific studies in coordination with Med. Statistics, “Studienzentrum” or other service facilities at Göttingen Campus
- Provision of information infrastructures in cooperation with computing centers, external research institutions, biobanks etc.
- Open for all institutions, working groups and PhD students
- Open also for national or international research partners or consortia

Hard- und software infrastructure



Example services

- Clinical Case Study: Investigation of rare cases in the children's hospital
- Pseudonymization of sensitive patient data: Multiple sclerosis
- Disease registers: European multiple sclerosis register (EUREMS)
- OMICS Data management: Systems medicine-consortia sysINFLAME, Deutsches Zentrum für Herz- und Kreislaufforschung (DZHK)
- Long-term analysis of data: Nationales Demenz-Netz
- IT-infrastructures for stem cell-research: DZHK
- INF-project of a Collaborative Research Center: Cardiology CRC 1002
- National consortia: Psychiatrie Netzwerk, Deutsches Zentrum für Herz- und Kreislaufforschung

Contact persons at Department of Medical Informatics

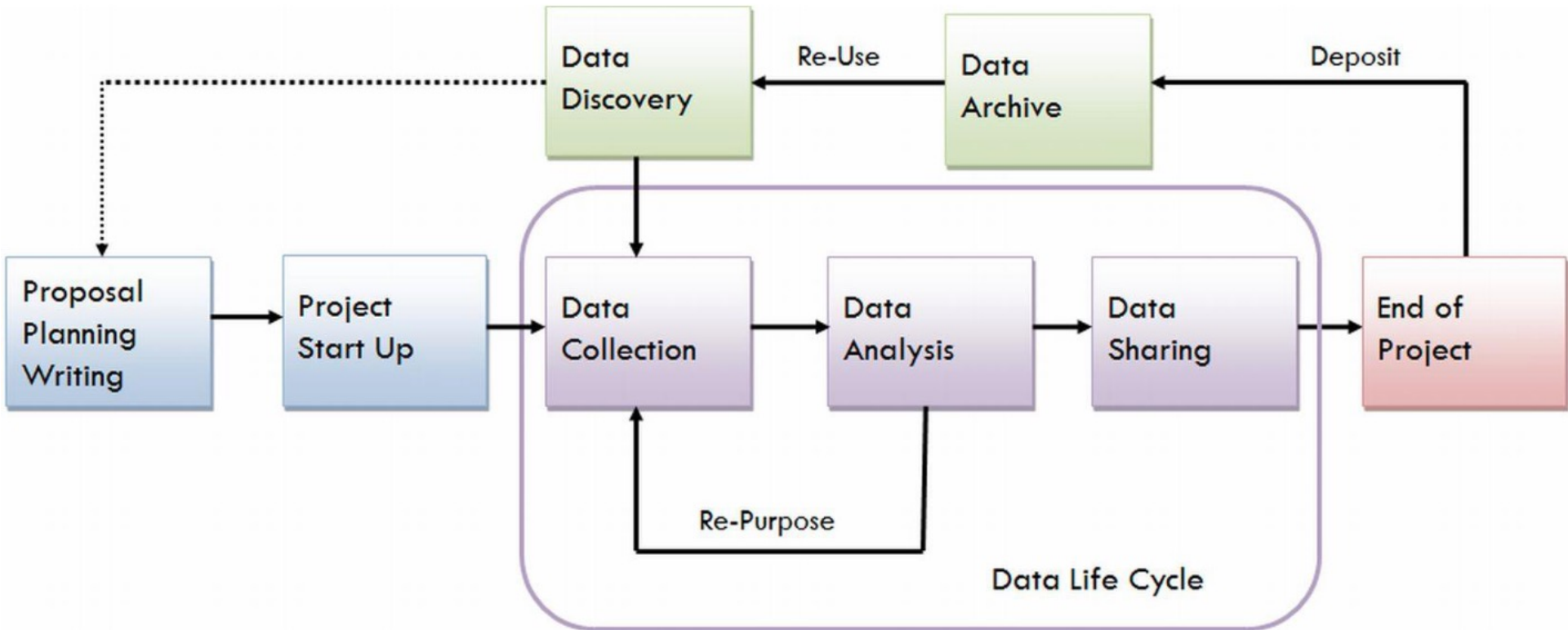
Prof. Dr. Dagmar Krefting	Head of Department
Prof. Dr. Ulrich Sax	IT-infrastructures for translational research
Sabine Hanß	IT-infrastructures for clinical collaborative research
Prof. Dr. Tibor Kesztyüs	Medizinisches Forschungs-Daten-Integrations-Centrum (UMG-MeDIC)
Kerstin Pischek-Koch	Intersectoral research
Dr. Harald Kusch	Data Manager MBExC
	IT infrastructures in biomedical basic research
	Contact to Göttingen eResearch Alliance



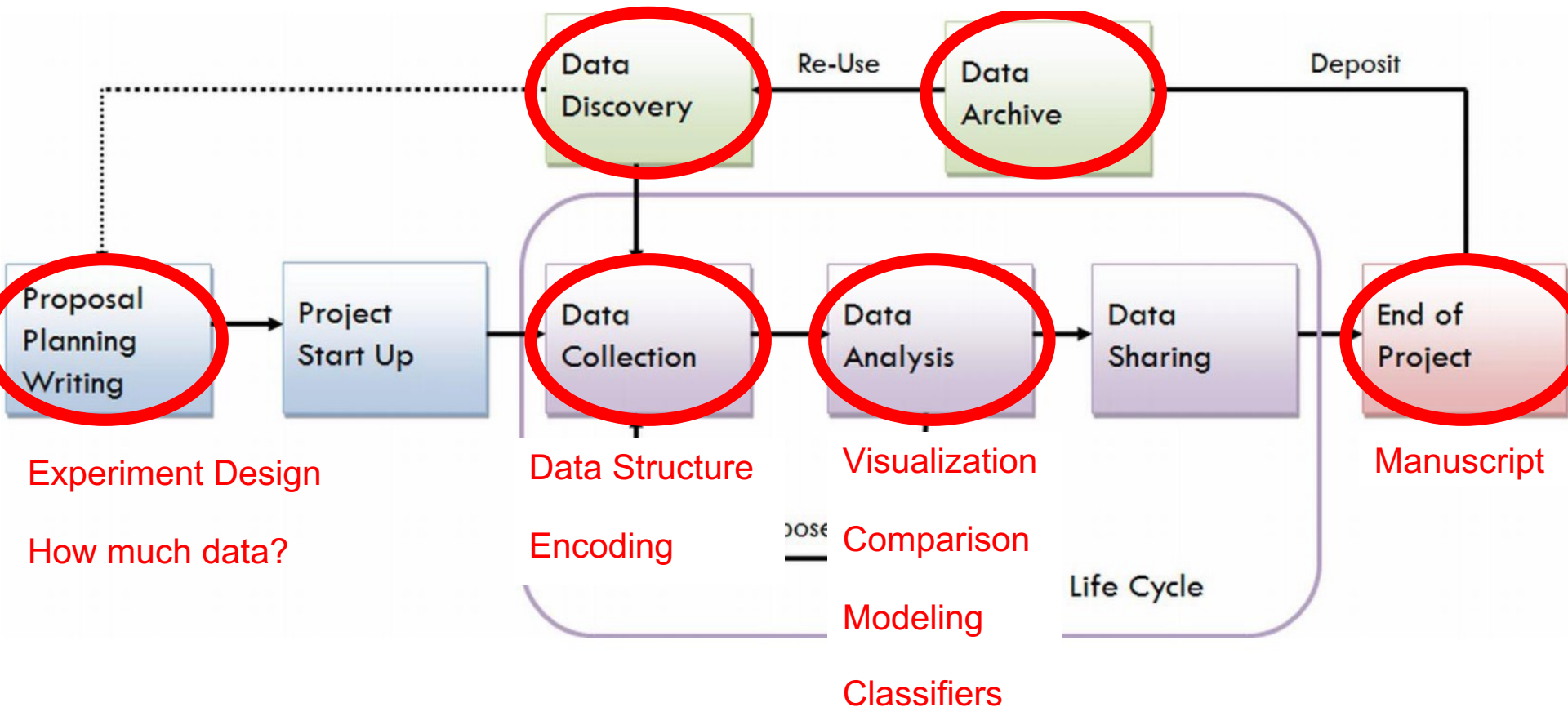
7. Core Facility

Medical biometry and Statistical Bioinformatics

Dr. Andreas Leha



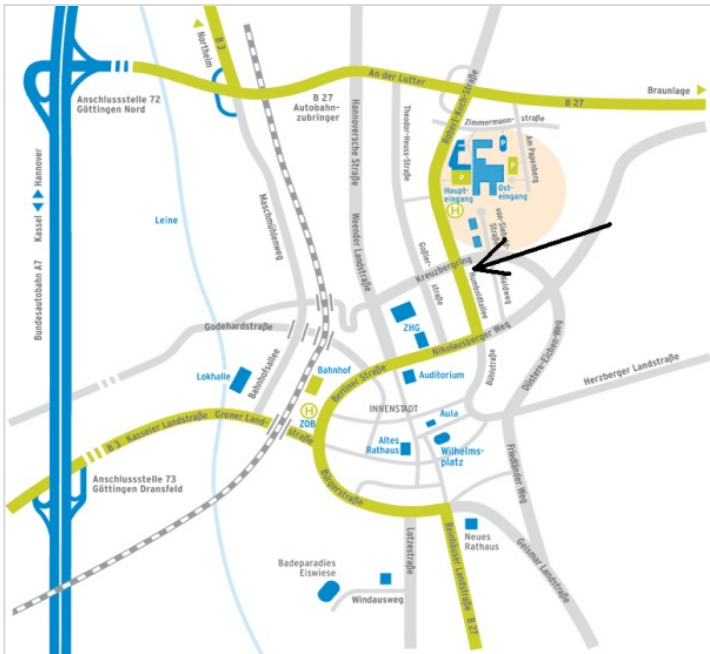
Courtesy of University of Virginia Library <https://data.library.virginia.edu/files/Research-Life-Cycle-LG>



Core Facility

Medical Biometry and Statistical Bioinformatics

Contact



University Medical Center Göttingen
Department of Medical Statistics

37099 Göttingen **Mailing Address**
Humboldtallee 32, 37073 Göttingen **Address**
0551 / 39-4987 **Phone**
0551 / 39-4995 **Fax**

service.biometry.bioinformatics@med.uni-goettingen.de **E-Mail**
medstat.umg.eu/forschung/wissenschaftliche-serviceeinheit/ **Website**

Core Facility

Medical Biometry and Statistical Bioinformatics

Short consulting

- ▶ Help with short questions concerning biostatistical or bioinformatical methods



- ▶ **Tuesday, 1pm – 3pm**

at the Department of Medical Statistics, Humboldtallee 32
currently **online via video conference**

- ▶ Can be visited without prior appointment

- ▶ medstat.umg.eu/forschung/wissenschaftliche-serviceeinheit/statistische-beratung/



Core Facility

Medical Biometry and Statistical Bioinformatics

Coached working

- ▶ Assistance with statistics- and bioinformatics-software



current team of student assistants

- ▶ Location:
 - ▶ CIP-pool of the Department of Medical Statistics
 - ▶ Learning Ressource Center (Medical Library)
 - ▶ currently **online via video conference**
- ▶ No prior appointment necessary
- ▶ Time schedule available website

medstat.umg.eu/forschung/wissenschaftliche-serviceeinheit/betreutes-arbeiten/



Core Facility

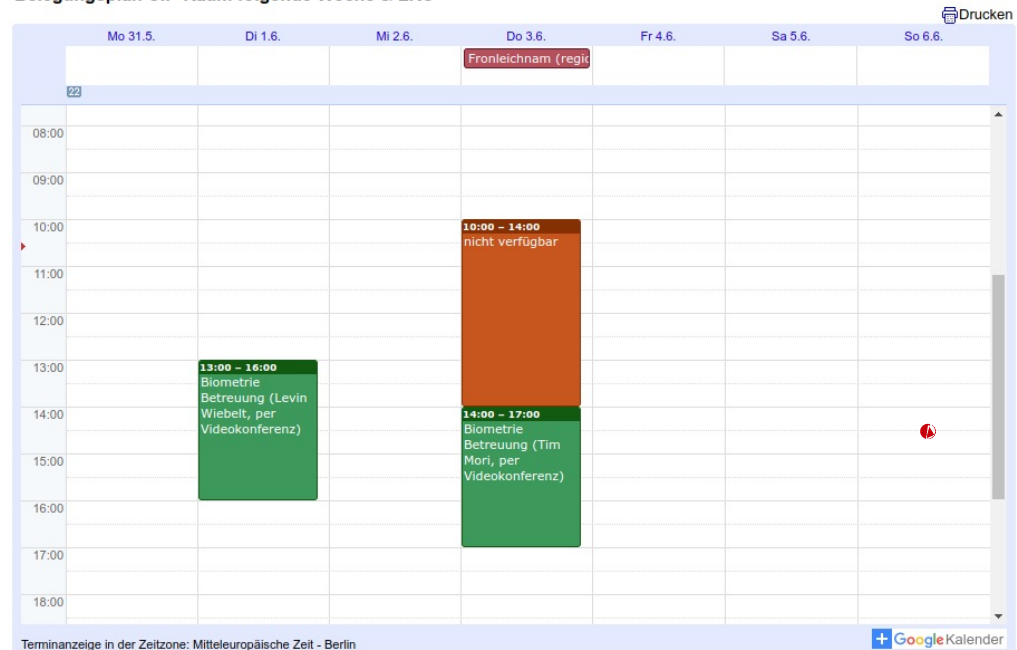
Medical Biometry and Statistical Bioinformatics

medstat.umg.eu/forschung/wissenschaftliche-serviceeinheit/betreutes-arbeiten/

► Coached working

Aufgrund der aktuellen Covid-19-Situation findet das Betreute Arbeiten ausschließlich digital per Videokonferenz mit den Mitarbeitern statt. Zur Terminvereinbarung außerhalb der unten genannten Zeiten und um die Zugangsdaten zu erhalten, senden Sie bitte eine Email an den jeweiligen Betreuer.

Belegungsplan CIP-Raum folgende Woche & LRC

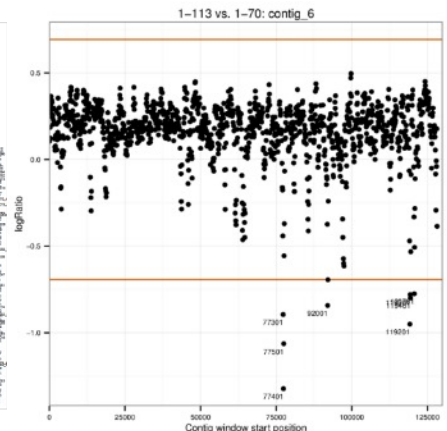
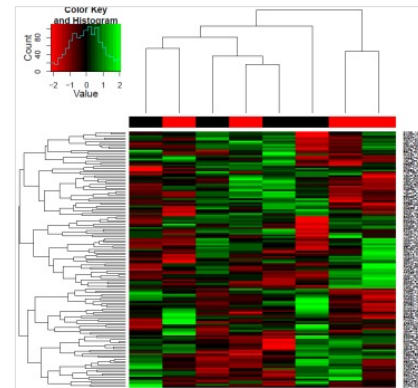


Core Facility

Medical Biometry and Statistical Bioinformatics

Project-related support

- ▶ We can carry out the biometrical and bioinformatical **planning** and **analysis** of your scientific experiments and studies:
 - ▶ Design of experiments, sample size planning
 - ▶ Statistical analysis
 - ▶ Bioinformatics analysis (e.g. array-, proteomics- and NGS-data)
 - ▶ Reporting of results

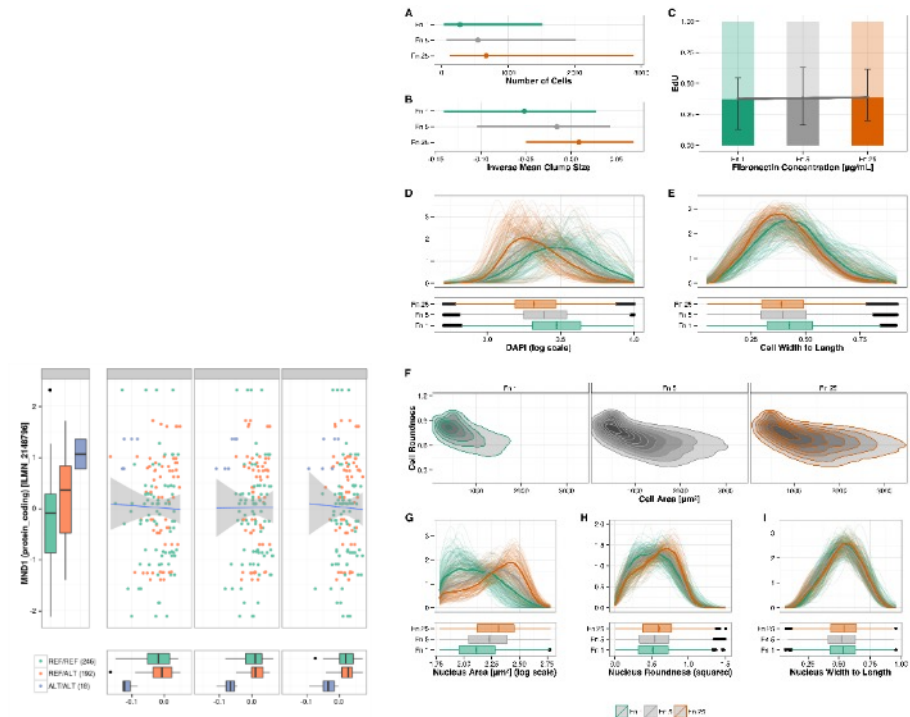


Core Facility

Medical Biometry and Statistical Bioinformatics

Project-related support

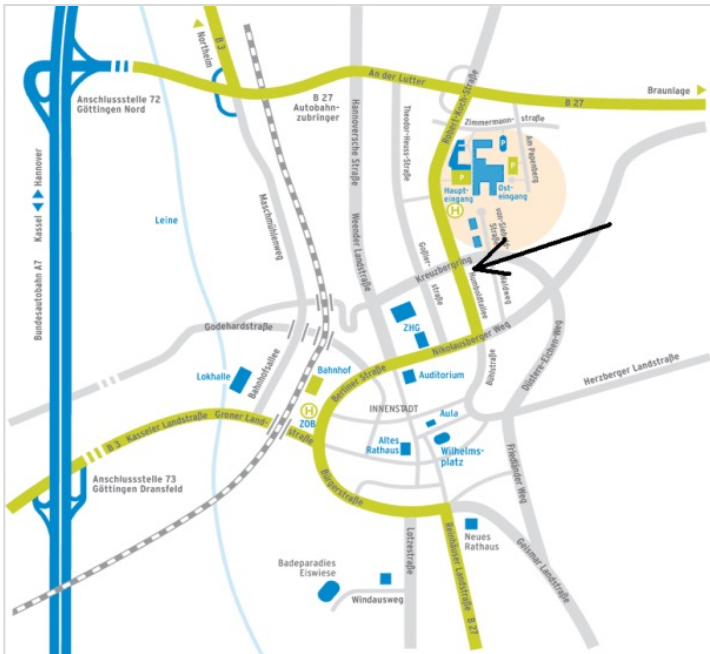
- ▶ We recommend early involvement (i.e. already in the planning phase)
- ▶ Appointment via our web form preferred (department homepage)
- ▶ There will be an invoice
 1. Discussion of project
 2. Cost estimate based on time effort
 3. Service request



Core Facility

Medical Biometry and Statistical Bioinformatics

Contact



University Medical Center Göttingen
Department of Medical Statistics

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8. Services of the Central Biobank UMG

PD Dr. Sara Nußbeck

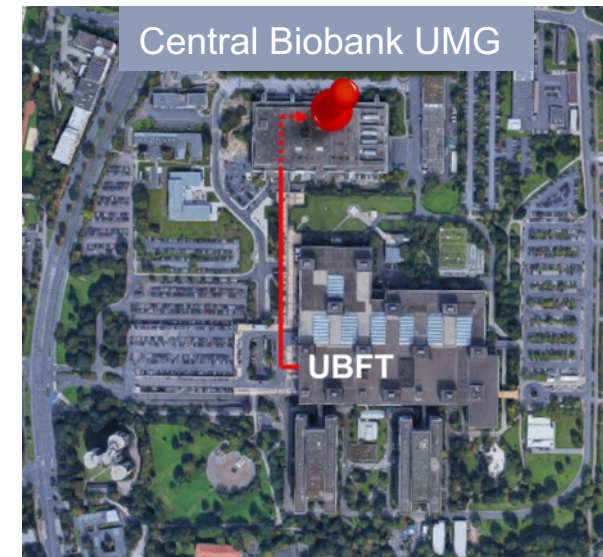
7. Services of the Central Core Facility Central Biobank UMG



PD Dr. Sara Nußbeck, Head of Central Biobank UMG

Central Biobank UMG – Central Core Facility

- Facility to support the research of all institutes and clinics of the UMG
- Advise for biospecimen and biospecimen data collection
- Standardised processes for biospecimen processing
- Storage of biospecimen
 - at -80°C
 - in the vapour phase of LN₂
 - at room temperature (FFPE and slides)
- Retrieval of selected biospecimen
- Cooled transport and shipping
- Founding member of the biobank excellence network



German
Biobank Node
bbmri.de

Infrastructure

- Sufficient structured storage capacity
- Backup-systems and equipment
 - High reliability of storage by redundancies in cooling and high and use of LN₂ tanks and back-up
 - Two independent temperature monitoring systems (24/7)
- Clearly marked storage containers and refrigeration equipment inventory (barcodes /2D-Code)
- Professional biospecimen management software



STARLiMS®

Advantages for user:

Comprehensive biospecimen logistics and use of technical expertise of the Central Biobank staff results in more time for your research.

Equipment of the Central Biobank UMG



Equipment of the Central Biobank UMG



Auslagerung aus dem Lagerroboter

Equipment of the Central Biobank UMG



Innenleben des Lagerroboters

Equipment of the Central Biobank UMG



Equipment of the Central Biobank UMG



Transportwagen CryoCart

Equipment of the Central Biobank UMG



Equipment of the Central Biobank UMG

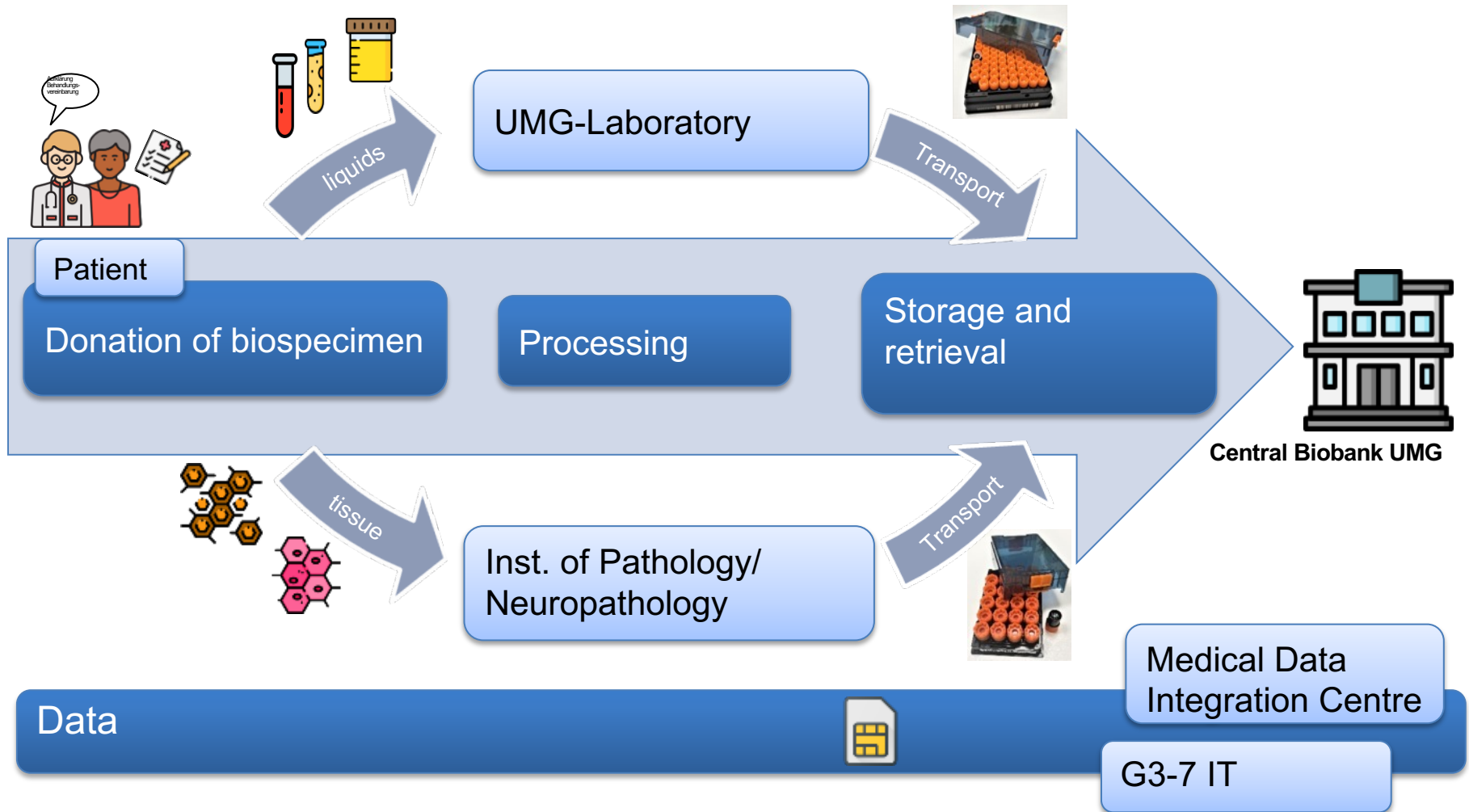


Krywowerkbank

Additional features of the Central Biobank UMG

- Quality assured and quality controlled, traceable documentation of samples and metadata (accreditation according to ISO 20387:2018 in preparation)
- Data security and privacy
- Emergency strategy in case of failure of the cooling units
- Interface management
- Terms of use including catalogue of costs and services
- Study specific services for UMG researchers
- Support in finding suitable samples also outside UMG
- Minimizing pre-analytical influences through standardization of processes

Processes of UMG Collection



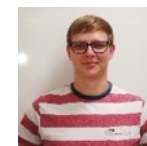
Team of the Central Biobank UMG is looking forward to support your research



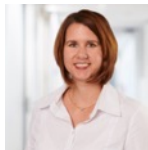
PD Dr. Sara Nußbeck
Head



Manuela Becker
Technician



Jakob Keller
Data manager



Dr. Mareike Derks
Project manager



Jeannette Löser
PR and Finances



Dr. Sandra Seelke
Dept. Head & Head of
Laboratory



Jutta Engelmayer
Technician in UMG-
Labor



Dr. Christina Thiesler
Project manager



Monique Küffer
Technician in Inst. of
Pathology



Andreas Bartussek
Informaticist



Angela Dettmar
Technician (NAPKON
Study)

<https://biobank.umg.eu>

For suggestions and questions as well as guided tours (Groups of more than 6 persons)

Please contact us: -65700 or biobank@med.uni-goettingen.de

Thanks for your attention!
Are there further questions?

<http://ereseach.uni-goettingen.de>
info@ereseach.uni-goettingen.de