



University of
Zurich ^{UZH}

u^b

b
UNIVERSITÄT
BERN

Open Science Link Collection

ACCREDITED BY EA/EVE/FVE

University of Bern | University of Zurich
vetsuisse-faculty



Table of Contents

- University of Zurich
 - University of Bern
 - Common links
 - Open Science initiatives
 - Metadata standards, controlled vocabularies
 - Data publication
- Websites Research Data Management
 - Legal documents
 - Data Management Plan instructions and funders guidelines
 - IT solutions for Research Data Management
 - Data publication
 - Long-Term preservation, storage
 - Sensitive data, information security
 - Research Data Management training
 - Contact points



University of
Zurich ^{UZH}

University of Zurich

ACCREDITED BY EAAC/EFMD

University of Bern | University of Zurich
vetsuisse-faculty



Table of Contents

- Websites Research Data management
- Legal documents
- Data Management Plan instructions and funders guidelines
- IT solutions for Research Data Management
- Data publication
- Long-Term preservation, storage
- Sensitive data, information security
- Research Data Management training
- Contact points



Relevant Websites Research Data Management

- RDM overview (library): <https://www.ub.uzh.ch/en/wissenschaftlich-arbeiten/mit-daten-arbeiten.html>
- RDM solution from Science IT: <https://www.zi.uzh.ch/en/teaching-and-research/science-it/experts/expert-rdm.html>
- Open Access: <https://www.openscience.uzh.ch/en/openaccess.html>;
<https://www.ub.uzh.ch/en/wissenschaftlich-arbeiten/publizieren/Open-Access.html>
- Open Science: <https://www.openscience.uzh.ch/en/definition.html>;
<https://www.uzh.ch/cmsssl/en/researchinnovation/ethics/openscience.html>;
<https://www.research.uzh.ch/en/openscience.html>
- Integrity: <https://www.research.uzh.ch/en/procedures/integrity.html>
- IT service: <https://www.zi.uzh.ch/en/teaching-and-research/science-it/experts/expert-rdm.html>
- Technology transfer: <https://www.research.uzh.ch/en/innovation/technologytransfer.html>
- Legal office: <https://www.rud.uzh.ch/en.html>



Relevant Legal Documents

- Official collection of legal documents: <https://www.rud.uzh.ch/en/rechtsgrundlagen/rechtssammlung-uzh.html>
- Open Science policy: <https://www.openscience.uzh.ch/en/definition/policy.html>
- Scientific integrity: <https://www.uzh.ch/en/researchinnovation/ethics.html>
- Ethics & integrity: <https://www.research.uzh.ch/en/procedures.html>
- General terms and conditions: <https://www.rud.uzh.ch/en/angebot/vertragsrecht/AGB.html>



Data Management Plan Instructions and Funders Guidelines

- DMP guidelines (library): <https://www.ub.uzh.ch/en/wissenschaftlich-arbeiten/mit-daten-arbeiten/data-management-plan.html>
- DMP instructions: <https://www.ub.uzh.ch/en/unterstuetzung-erhalten/tutorials/forschungsdaten-management/data-management-plan-schreiben.html>
- ORD (SNSF): <https://www.snf.ch/en/dMILj9t4LNk8NwyR/topic/open-research-data>
- DMP (SNSF): <https://www.snf.ch/en/FAiWVH4WvpKvohw9/topic/research-policies>



IT Solutions for Research Data Management

- Science IT services: <https://www.zi.uzh.ch/de/teaching-and-research/science-it.html>
- GitLab: <https://www.zi.uzh.ch/en/teaching-and-research/software-elearning/webplatforms/gitlab.html>
- Data storage: <https://www.zi.uzh.ch/en/support/Outlook-und-Kollaboration-Office-365/onedrive-uzh.html>
- Data exchange with SWITCHdrive (non-sensitive data): <https://www.switch.ch/en>
- Electronic Lab Notebook (ELN) finder: <https://eln-finder.ulb.tu-darmstadt.de/home>



Data Publication

- Data publication (library): <https://www.ub.uzh.ch/en/wissenschaftlich-arbeiten/mit-daten-arbeiten/daten-ablegen-und-teilen.html>
- Recommendations on data documentation (library): <https://www.ub.uzh.ch/en/wissenschaftlich-arbeiten/mit-daten-arbeiten/daten-dokumentieren.html>
- Zurich Open Repository and Archive: <https://www.zora.uzh.ch>
- Creation of readme files: <https://data.research.cornell.edu/data-management/sharing/readme/>
- Creative Commons Licences: <https://www.ub.uzh.ch/en/wissenschaftlich-arbeiten/Rechtliche-Aspekte/creative-commons.html>



Long-Term Preservation, Storage

- File formats for data archiving: <https://unlimited.ethz.ch/display/DD/Archivtaugliche+Dateiformate>
- Long-term archiving: Please contact the institute's IT person (<https://www.vet.uzh.ch/de/fakultaet/itdienste/it-verantwortliche.html>)



Sensitive Data, Information Security

- Data protection in research projects: <https://www.rud.uzh.ch/en/angebot/datenschutzrecht/research.html>
- Data protection, sensitive data: <https://www.ub.uzh.ch/en/wissenschaftlich-arbeiten/Rechtliche-Aspekte/data-protection.html>
- Information security: <https://www.informationsecurity.uzh.ch/en.html>
- Data security: <https://www.zi.uzh.ch/en/staff/it-security/information-security-and-data-protection.html>
- Swiss Federal Act on data protection: <https://www.fedlex.admin.ch/eli/cc/2022/491/en>
- Data protection (ZH): <https://www.stadt-zuerich.ch/prd/de/index/statistik/ueber-uns/datenschutz.html>



Research Data Management Training

- Overview education and training offers: <https://www.openscience.uzh.ch/en/definition/education.html>
- Lunch & Learn Open Science: <https://www.ub.uzh.ch/en/unterstuetzung-erhalten/lunch-and-learn.html>
- ReproducibiliTea Journal Club: <https://www.crs.uzh.ch/en/training/ReproducibiliTea.html>
- OLAT Open Access Course:
<https://ims.uzh.ch/auth/RepositoryEntry/17366450219/CourseNode/107369750753856>
- Teaching and research by Central IT: <https://www.zi.uzh.ch/en/teaching-and-research.html>
- Research data management and related topics (ETH): <https://library.ethz.ch/en/news-and-courses/courses/research-data-management-and-related-topics.html>
- Digital data management courses (University of Edinburgh): <https://mantra.ed.ac.uk>
- Request for training (library): data@ub.uzh.ch



Contact Points

- RDM: data@ub.uzh.ch
- Open Access publishing: oa@ub.uzh.ch, samuel.nussbaum@zb.uzh.ch
- Science IT: contact@s3it.uzh.ch
- Research ethics: martin.hanselmann@uzh.ch
- Data protection: privacy@rud.uzh.ch, data@ub.uzh.ch
- Legal matters: rechtsdienst@rud.uzh.ch
- Technology transfer: mail@unitectra.ch
- Research funding: support@research.uzh.ch

u^b

b
UNIVERSITÄT
BERN

University of Bern

ACCREDITED BY EÄVE/FVE

Table of Contents

- Websites Research Data management
- Legal documents
- Data Management Plan instructions and funders guidelines
- IT solutions for Research Data Management
- Data publication
- Long-Term preservation, storage
- Sensitive data, information security
- Research Data Management training
- Contact points

Relevant Websites Research Data Management

- RDM overview (library): https://www.ub.unibe.ch/services/open_science/research_data_management/index_eng.html
- Open Access: https://www.ub.unibe.ch/service/open_science/open_access/index_ger.html
- Open Science: https://www.ub.unibe.ch/service/open_science/index_ger.html
- Scientific integrity: https://www.unibe.ch/forschung/gute_wissenschaftliche_praxis/research_integrity/index_ger.html;
https://www.unibe.ch/research/good_scientific_practice/ethics/scientific_integrity/index_eng.html
- IT service:
https://www.unibe.ch/universitaet/campus_und_infrastruktur/rund_um_computer/servicedesk/index_ger.html
- Technology transfer:
https://www.unibe.ch/university/organization/executive_board_and_central_administration/administrative_director_s_of_fice/technology_transfer_unitectra/index_eng.html
- Legal office:
https://www.unibe.ch/university/organization/executive_board_and_central_administration/general_secretariat/legal_services_office/index_eng.html

Relevant Legal Documents

- Official collection of legal documents:
https://www.unibe.ch/university/organization/legal_matters/legal_collection/index_eng.html
- Open Access policy:
https://www.ub.unibe.ch/unibe/portal/unibiblio/content/e6304/e583799/e614021/e614175/e614176/e614178/pane614213/e614216/files614218/open-access-policy-of-the-university-of-bern_ger.pdf
- Scientific integrity:
https://www.unibe.ch/research/good_scientific_practice/ethics/scientific_integrity/index_eng.html
- Code of conduct for scientific integrity: <https://akademien-schweiz.ch/en/uber-uns/commissions-and-task-forces/scientific-integrity/>
- University of Bern Act (Intellectual property: Art. 70; scientific integrity: Art. 77a):
https://www.belex.sites.be.ch/app/de/texts_of_law/436.11

Data Management Plan Instructions and Funders Guidelines

- DMP information and templates (library):
https://www.ub.unibe.ch/services/open_science/research_data_management/fdm_vt/data_management_plan/index_eng.html
- ORD (SNSF): <https://www.snf.ch/en/dMILj9t4LNk8NwyR/topic/open-research-data>
- DMP (SNSF): <https://www.snf.ch/en/FAiWVH4WvpKvohw9/topic/research-policies>
- OR and DMP (European Research Council):
https://erc.europa.eu/sites/default/files/document/file/ERC_info_document-Open_Research_Data_and_Data_Management_Plans.pdf

IT Solutions for Research Data Management

- Science IT support: https://ilias.unibe.ch/goto_ilias3_unibe_cat_1132185.html
- Science Lab UniBE: <https://www.dsl.unibe.ch/>
- LIMS OpenBIS <https://openbis.ch>
- GitLab: https://gitlab.inf.unibe.ch/users/sign_in
- (Cloud) data storage:
https://www.unibe.ch/university/campus_and_infrastructure/rund_um_computer/soft_und_hardware/software/cloud_storage_services/index_eng.html
- Electronic Lab Notebook (ELN) finder: <https://eln-finder.ulb.tu-darmstadt.de/home>

Data Publication

- Data publication (library):
https://www.ub.unibe.ch/services/open_science/research_data_management/index_eng.html#collapse_pane1085919
- Institutional data repository and research collection: <https://boris-portal.unibe.ch>
- Recommendations on research data documentation:
https://www.ub.unibe.ch/unibe/portal/unibiblio/content/e6304/e583799/e573822/e1085861/e1085890/e1085891/pane1085902/e1406126/DataDocumentationGuideline_v.3_ger.pdf
- Creation of readme files:
https://www.ub.unibe.ch/unibe/portal/unibiblio/content/e6304/e583799/e573822/e1085861/e1085890/e1085891/pane1085902/e1198324/Readme_Template_DE_v2_20220511_ger.txt
- Creative Commons Licences:
https://www.ub.unibe.ch/service/open_science/open_access/oa_vt/oa/index_ger.html

Long-Term Preservation, Storage

- General information:
https://www.ub.unibe.ch/service/open_science/digitale_langzeitarchivierung/index_ger.html
- Contact: berda.ub@unibe.ch
- Policy digital long-time archiving:
https://www.ub.unibe.ch/unibe/portal/unibiblio/content/e6304/e583799/e791542/e791788/files805464/UBBerndigitaleLangzeitarchivierungspolicy_2019_ger.pdf
- Format policy:
https://www.ub.unibe.ch/unibe/portal/unibiblio/content/e6304/e583799/e791542/e791788/files955270/UBBerndLZAFormatpolicy_ger.pdf
- Institutional data repository: <https://boris-portal.unibe.ch>
- File formats for data archiving: <https://unlimited.ethz.ch/display/DD/Archivtaugliche+Dateiformate>

Sensitive Data, Data Protection

- Swiss Federal Act on Data Protection: <https://www.fedlex.admin.ch/eli/cc/2022/491/en>
- Data Protection office: https://www.unibe.ch/university/organization/executive_board_and_central_administration/general_secretariat/legal_services_office/index_eng.html
- Data Protection law (canton Bern): https://www.belex.sites.be.ch/app/de/texts_of_law/152.04/versions/2718
- Data security: https://www.unibe.ch/universitaet/organisation/rechtliches/rechtssammlung/informatik/weisungen_und_beschluesse/index_ger.html

Research Data Management Training

- Overview Education and Training offers:
https://www.ub.unibe.ch/services/open_science/training_series_and_workshops_in_open_science/index_eng.html
- Unibe Reproducibilita: <https://unibe-reptea.netlify.app>
- Research data management and related topics (ETH): <https://library.ethz.ch/en/news-and-courses/courses/research-data-management-and-related-topics.html>
- Digital data management courses (University of Edinburgh): <https://mantra.ed.ac.uk>

Contact Points

- RDM: researchdata@unibe.ch, openscience@unibe.ch
- Open Access Publishing: openaccess@unibe.ch
- Science IT: support.dsl@unibe.ch
- Research ethics: integritaet@unibe.ch
- Data protection, legal matters: info@rechtsdienst.unibe.ch
- IT Security: security@unibe.ch
- Technology transfer: mail@unitectra.ch
- Funding of ORD projects, research funding: openaccess@unibe.ch



University of
Zurich ^{UZH}

u^b

^b
UNIVERSITÄT
BERN

Common links

ACCREDITED BY EÄVE/FVE

University of Bern | University of Zurich
vetsuisse-faculty



Table of Contents

- Open Science initiatives
- Metadata standards
- Controlled vocabularies
- Data publication

Open Science Initiatives

- SNSF: <https://www.snf.ch/en/dah3uC2QX95tfPNd/topic/open-science>
- Swissuniversities: <https://www.swissuniversities.ch/en/topics/digitalisation/open-science-2021-2024>
- University of Zurich domain Open Science: <https://www.openscience.uzh.ch/en/definition.html>
- University of Bern domain Open Science: https://www.ub.unibe.ch/services/open_science/index_eng.html
- European Commission: https://research-and-innovation.ec.europa.eu/strategy/strategy-2020-2024/our-digital-future/open-science_en
- UNESCO: https://www.unesco.org/en/open-science/about?hub=686&TSPD_101_R0=080713870fab2000e49fd656161baf44a406e07b29f4a2204763a3d128056a123e7b38a6e78ec44b0870d54951143000bee416d4f277c5850ebdd44b7ddd4eb6c8bd00f485924065ba01ad7c18bfb8b383e8bf87e9853f4ff6bf10cebf81e6
- FAIR principles: <https://www.go-fair.org/fair-principles/>
- Open innovation in life sciences: <https://www.openinnovationlifesciences.com>
- Projects at University of Bern: https://www.ub.unibe.ch/service/open_science/projekte_und_kooperationen/index_ger.html
- Team and network at University of Zurich: <https://www.openscience.uzh.ch/de/network.html>



Metadata Standards

- DCC standards: <https://www.dcc.ac.uk/guidance/standards/metadata/list>
- Jisc metadata standards: <https://www.jisc.ac.uk/guides/metadata/management#>
- FAIR standards:
<https://fairsharing.org/search?fairsharingRegistry=Standard&subjects=veterinary%2520medicine&page=1>

DCC: Digital Curation Centre, Jisc: Joint Information Systems Committee

Controlled Vocabularies

Medical terminology/disease classification and coding systems:

- SNOMED-CT Veterinary Extension (VTSL): <https://vtsl.vetmed.vt.edu/extension/>
- ICD-11 (for humans, WHO): <https://icd.who.int/en>
- Vet-ICD-O-canine-1 (tumors in dogs, GIVCS): <https://www.mdpi.com/2072-6694/14/6/1529>

Breed Ontology:

- Vertebrate Breed Ontology (EMBL-EBI): <https://www.ebi.ac.uk/ols4/ontologies/vbo>

VTSL: Veterinary Terminology Services Laboratory at the Virginia Maryland Regional College of Veterinary Medicine, Virginia Tech, Blacksburg, Virginia; WHO: World Health Organization; GIVCS: Global Initiative for Veterinary Cancer Surveillance; EMBL-EBI: European Molecular Biology Laboratory's European Bioinformatics Institute

Data Publication

- Data availability statement guide: <https://support.nature.com/en/support/solutions/articles/6000237611-write-a-data-availability-statement-for-a-paper>
- DataCite (Citation of research data): <https://support.datacite.org/docs/data-citation>
- Comprehensive registry of research data repositories: <https://www.re3data.org>
- SNSF FAIR compliance list for repositories:
https://www.snf.ch/media/en/zKRJknEq0OHE5pEQ/Checklist_data_repositories.pdf
- SNSF data repositories recommendations: <https://www.snf.ch/en/WtezJ6qxuTRnSYgF/topic/open-research-data-which-data-repositories-can-be-used>
- Swiss Federal Act on Copyright and Related Rights:
https://www.fedlex.admin.ch/eli/cc/1993/1798_1798_1798/en