

UNIVERSITY OF BERGEN LIBRARY

# Data Management Planning at UiB

**ELIXIR Data Management Planning workshop 26.09.2022**

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University of Bergen Library  
Research Data Team

UNIVERSITY OF BERGEN



# University Library Research Data Team



## Courses and guidance:

- Open Science
- Open Data: why, how and where?
- Data Management Plans
- Finding & reusing research data
- UiB Open Research Data

## More information on our web pages:

Open Access to Research data  
Data Management Plans

**Contact us:** [research-data@uib.no](mailto:research-data@uib.no)

# The library provides guidance



UNIVERSITY OF BERGEN

Education

Research

Library

For students

For employees

About UiB

Norsk



## University of Bergen Library

Your subject

Using the Library

Research and publish

Open Science

About the Library

UiB

Publishing  
strategies for  
researchers

DMP

OA publishing,  
Publishing deals,  
Publication Fund

Open Access to  
Research Data

SEARCH IN ORIA

Go to Oria

Databases

Help



## Employee Pages

[Employment conditions](#) ▾[Work support](#) ▾[Service functions](#) ▾[Competence](#) ▾[Policy and strategy](#) ▾[UiB](#) > [Employee Pages](#) >

### OPEN SCIENCE

# The University of Bergen Policy for Open Science

Openness, transparency, and knowledge exchange are core values for the University of Bergen. Technological changes and increased digitalization have created new opportunities for research, education, innovation, and artistic research.

*Adopted by the University Board on September 24, 2020*

# UiB Policy for Open Science

## Employee Pages

Employment conditions ▾

Work support ▾

Service functions ▾

Competence ▾

Policy and strategy ▾

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OPEN SCIENCE

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*adopted by the University Board 24.09.2020*

- Open access to research publications and artistic research
- Open access to research data
- Open Innovation
- Citizen Science
- Open educational resources

# Open access to research data

The goal of the University of Bergen is that data resulting from research activity should be made readily available for reuse in accordance with FAIR-principles.



Data  
description

Metadata &  
data quality

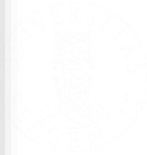
Storage &  
Backup

Legal &  
ethical  
issues

Long-term  
preservation  
& sharing

Responsi-  
bilities &  
resources

## Science Europe – Practical Guide to the International Alignment of Research Data Management





Resources at







How will data and metadata be **stored and backed up**?

- use institutionally managed storage with automatic backup  
(**NOT**: laptops, stand-alone hard drives, USB sticks!  
Follow 3-2-1 rule if you cannot rely on managed storage)
- Do you have sufficient storage resources?



# File storage at UiB IT

- Default: 50GB in personal directory & 1TB on OneDrive
- Price list active storage:  
[https://it.uib.no/Prisliste\\_IT\\_tjenester](https://it.uib.no/Prisliste_IT_tjenester)
- Long-term storage (cold storage):  
<https://it.uib.no/Billy>
- Contact via UiBhjelp

## File storage and backup

All employees and students at the University of Bergen have a personal directory at the UiB file servers. This is the "home directory" where you should store personal files associated with work or studies at UiB. The IT department provides backup and access control to keep your files safe.

### Contents [hide]

- 1 Safe in the home directory
- 2 Synchronizing laptop and home directory
- 3 Shared directories
- 4 Need more storage space?
- 5 Access outside UiB
- 6 Backup
- 7 Restore from backup
  - 7.1 Ubuntu
- 8 Read more



# Large datasets (TB range)

Sigma2 & NIRD



Subject-specific platforms  
(storage based on NIRD)

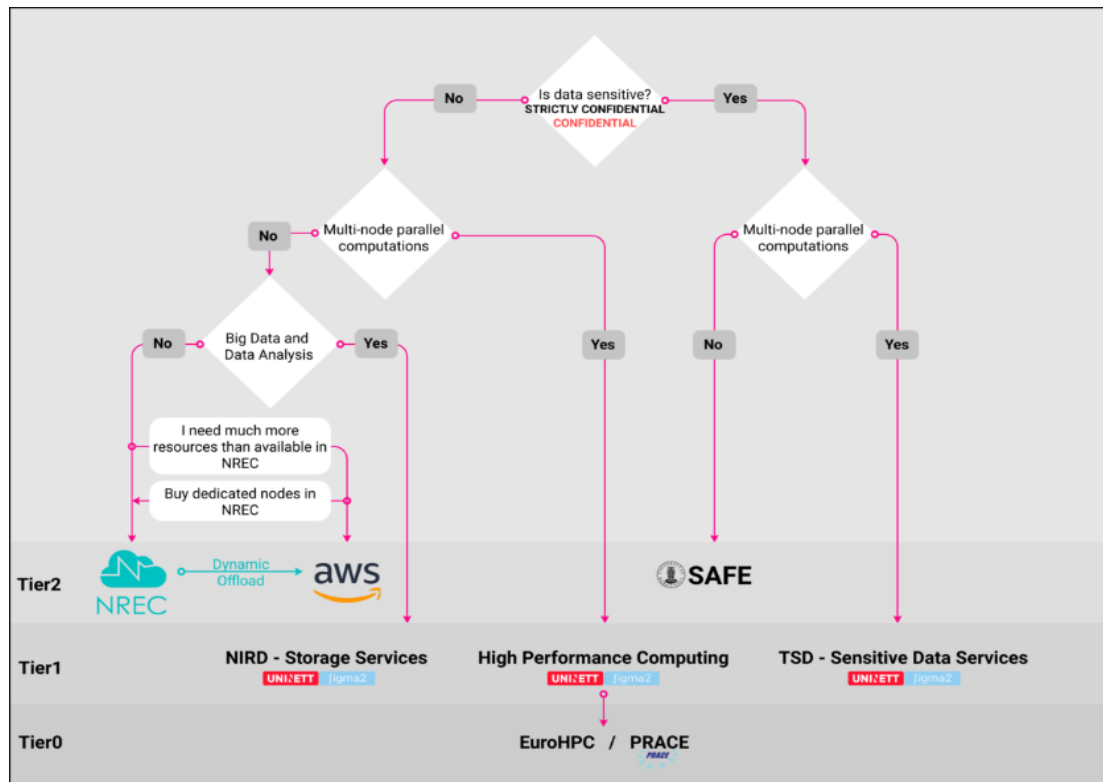
## NeLS

Norwegian e-Infrastructure for Life Sciences

## INES



# High-performance computing (HPC)



HPC training events:  
<https://www.sigma2.no/training>





How is **data security** and protection of sensitive data taken care of?



many types  
of personal  
data

special category  
(personal  
sensitive) data

large amounts  
of special  
category data





How is **data security** and protection of sensitive data taken care of?

Green

Open

Yellow

Restricted

many types of personal data

If you have sensitive data @UiB

**SAFE**

UNIVERSITETET I BERGEN

IT-avdelingen

Organisering ▼ Planer og dokument ▼ Resurser ▼ Kontakt ▼

UB > IT-avdelingen >

INFORMASJON FRA IT-AVDELINGEN

**SAFE (sikker adgang til forskningsdata og e-infrastruktur)**

På IT-avdelingen ved Universitetet i Bergen har vi utviklet en løsning for sikker behandling av sensitive personopplysninger i forskning. Løsningen kaller vi SAFE (Sikker Adgang til Forskningsdata og E-infrastruktur). SAFE bygger på Norm for informasjonssikkerhet i helse- og omsorgstjenestene (Normen) og sikrer at informasjonssikkerheten med hensyn til konfidensialitet, integritet og tilgjengelighet blir ivarett ved behandling av sensitive personopplysninger.

<https://www.uib.no/safe>

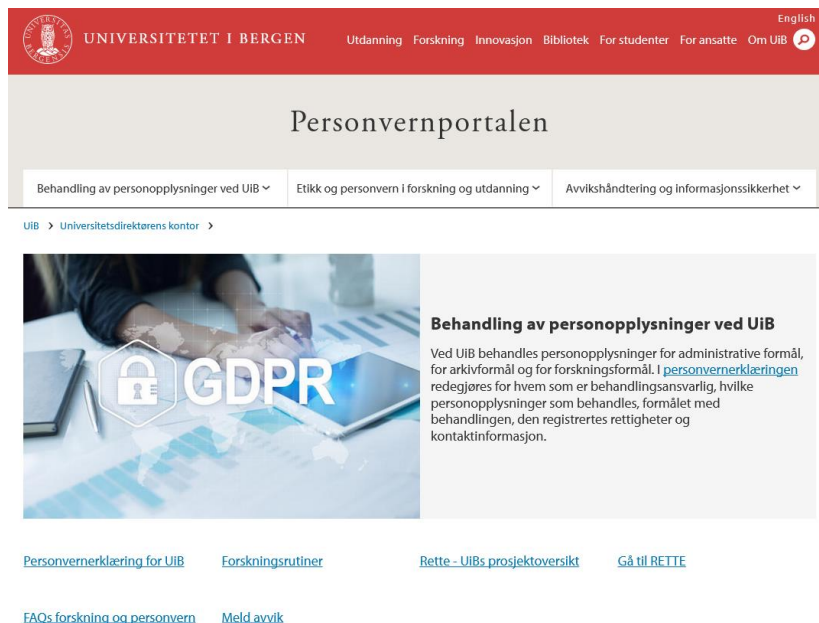




What **legal/ethical issues** are there and how will they be taken into account? Which legislation is applicable?

- Processing of personal data, how will compliance with legislation and data security be ensured?
- How will intellectual property rights (IPR) and ownership be managed?
- What ethical issues and codes of conduct need to be considered?

# Personal Data and Privacy Gateway (Personvernportalen)



UNIVERSITETET I BERGEN English

Utdanning Forskning Innovasjon Bibliotek For studenter For ansatte Om UiB

## Personvernportalen

Behandling av personopplysninger ved UiB Etikk og personvern i forskning og utdanning Avvikshåndtering og informasjonssikkerhet

UiB > Universitetsdirektørens kontor >

### Behandling av personopplysninger ved UiB

Ved UiB behandles personopplysninger for administrative formål, for arkivformål og for forskningsformål. I [personvernerklæringen](#) redegjøres for hvem som er behandlingsansvarlig, hvilke personopplysninger som behandles, formålet med behandlingen, den registrertes rettigheter og kontaktinformasjon.

[Personvernerklæring for UiB](#) [Forskningsrutiner](#) [Rette - UiBs prosjektoversikt](#) [Gå til RETTE](#)

[FAQs forskning og personvern](#) [Meld avvik](#)

- UiB's data protection officer (Personvernombud): [Janecke Veim](#)
- Mandatory registration: RETTE

Your projects User manual

## RETTE

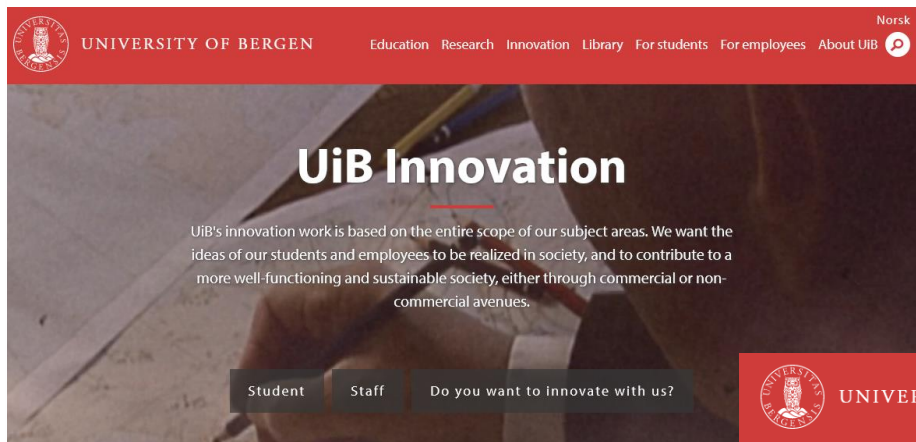
System for Risk and compliance. Processing of personal data in research and student projects at UiB.

Login

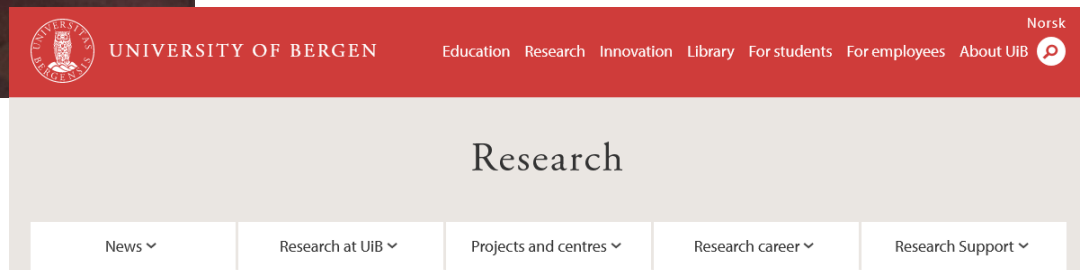
Can the project be registered directly in RETTE?



# Intellectual Property Rights (IPR)



<https://www.uib.no/en/innovation>



[UiB](#) > [Research](#) >

## VIS - Innovation and commercialization

VIS helps researchers and scientific staff at UiB to commercialize research results and secure rights.

<https://www.uib.no/en/research/74837/vis-innovation-and-commercialization>



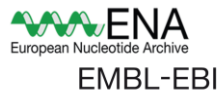
Which data **repository/archive** are you planning to submit to?

- Describe persistent identifiers, file formats, metadata standards, controlled vocabularies,... → compliance with **FAIR principles**
- Restrictions to data sharing? (information security, IPR,...)



# Data repositories

## 1. Community repository



## 2. Institutional repository



UiB Open Research Data

## 3. Multidisciplinary repository



# UiB Open Research Data



Search ▾

Deposit Guide

Support

Log In



## UiB Open Research Data

[DataverseNO](#) > [UiB Open Research Data](#)

[Contact](#) [Share](#)



Search this dataverse...

[Find](#)

[Advanced Search](#)

☒ [Dataverses \(1\)](#)

☒ [Datasets \(86\)](#)

☐ [Files \(66,263\)](#)

### Dataverse Category

[Research Group \(1\)](#)

### Publication Year

[2020 \(67\)](#)

[2021 \(17\)](#)

[2019 \(3\)](#)

### Distributor Name

[UiB Open Research Data \(86\)](#)

### Subject

1 to 10 of 87 Results

[Sort ▾](#)

Replication Data for: The potential for cleaner fish driven evolution in the salmon louse *Lepeophtheirus salmonis*: genetic or environmental control of pigmentation?

May 19, 2021



Hamre, Lars Are; Oldham, Tina; Nilsen, Frank; Glover, Kevin, 2021, "Replication Data for: The potential for cleaner fish driven evolution in the salmon louse *Lepeophtheirus salmonis*: genetic or environmental control of pigmentation?", <https://doi.org/10.18710/8EE2JS>, DataverseNO, V1

The datasets consist of two files with data from two different experiments. Experiment 1: compares pigmentation of lice cultivated indoor and outdoors in two experiments, one in June and one in September 2008. Photos are taken using translucent light and pigmentation is measured...

Replication data for: Cystatin C proteoforms in chronic kidney disease

Apr 30, 2021



Dierkes, Jutta, 2021, "Replication data for: Cystatin C proteoforms in chronic kidney disease", <https://doi.org/10.18710/NUNHDF>, DataverseNO, V1





Who will be **responsible** for data management?

- Consider to use controlled vocabulary for role definitions (e.g. DataCite Metadata Schema contributorType)

What **resources (cost & time)** will be allocated to data management and ensuring that data will be FAIR?

- Resources:  
Utrecht University – Costs of data management  
UK Data Service - Costing data management



# Further resources



[openscience.no](https://openscience.no)  
[incl. event calendar](#)



[PhD on Track -  
Open Science](#)



[CESSDA Data Management  
Expert Guide](#)



[ELIXIR RDM Kit](#)



# Open courses autumn 2022

OPEN SCIENCE

## Introduction to Data Management Plans (DMP)

OPEN SCIENCE

## Data Management Plan WORKSHOP

19.08.[norw.], 30.09., 25.11.

OPEN SCIENCE

## How can you make your research data open and FAIR?

02.09., 09.12.[norw.]

OPEN SCIENCE

## Finding & reusing research data

11.11.

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## Open access - step by step

16.09.

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## Make your research visible using researcher profiles

14.10.

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## OPEN ACCESS WEEK 2022

24.-28.10.





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@DLabUiB

@jennyostrop







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