**OPEN
SCIENCE
AT UIS**

Webinar: Sharing and archiving data

Elin Stangeland and John David Didriksen, Stavanger University Library

Agenda

- Introduction
  - What data sharing entails and why this is good research practice
  - The FAIR principles
  - Routes to data sharing and archiving
- 10 min break
- How to prepare for and archive data with UiS Open Research Data
- Q&A

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As open as possible, as closed as necessary...

The Research Council of Norway

Openness and knowledge sharing is a prerequisite for all research. It is an important research policy objective that the results of publicly funded research should be as open as possible.

The University of Stavanger (UiS) aligns itself with the principles of the Norwegian Research Council and the EU with regards to managing research data.

Data should be "as open as possible, as closed as necessary". All research data should be made openly available, unless there are factors which dictate limits on the availability.

Furthermore, UiS expects the research data management to be in line with the FAIR principles

Guidelines for managing research data at the University of Stavanger

2020

Horizon Europe

○ In Horizon Europe, *beneficiaries must manage the digital research data generated in the action ('data') responsibly, in line with the **FAIR principles**, and should at least do the following:*

- Prepare a Data Management Plan (DMP) and keep it updated throughout the course of the project

- Deposit data in a trusted repository and provide open access to it ('as open as possible, as closed as necessary')

- Provide information (via the same repository) about any research output or any other tools and instruments needed to re-use or validate the data

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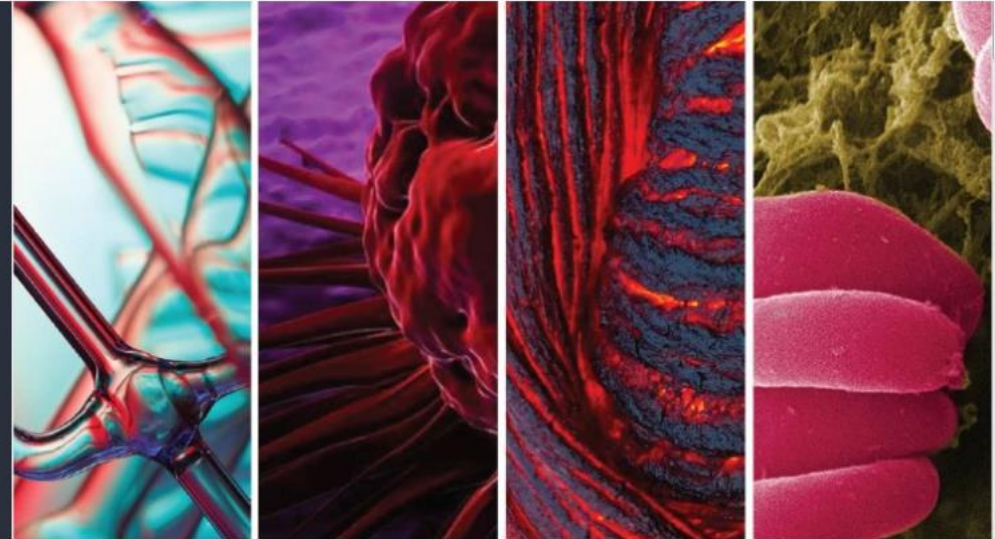
Announcements

Journal Metrics

Scientific Reports has a 2-year impact factor of 4.6 (2022), and is the 5th most-cited journal in the world, with more than 738,000 citations in 2022*.

*2023 Journal Citation Reports® Science Edition (Clarivate Analytics, 2023).

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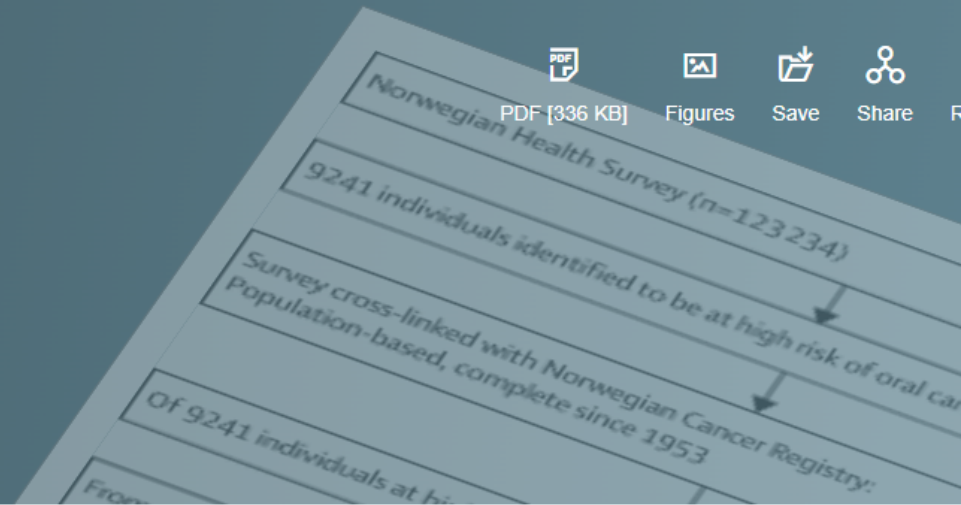
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RETRACTED: Non-steroidal anti-inflammatory drugs and the risk of oral cancer: a nested case-control study

Dr J Sudbø, MD • Prof JJ Lee, PhD • Prof SM Lippman, MD • J Mork, MD • S Sagen, MPH • N Flatner, DDS • et al.

Show all authors

- Introduction
- Methods
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This article has been retracted at the request of the Editor-in-Chief. Please see http://www.elsevier.com/locate/withdrawalpolicy.

Reason: We have received confirmation from Professor Anders Ekbom, who chairs the investigating commission appointed by the University of Oslo and Rikshospitalet, that the paper published by Jon Sudbø and colleagues in The Lancet contains fabricated data. This information supersedes our earlier expression of concern (R. Horton, Expression of concern: non-steroidal anti-inflammatory drugs and the risk of oral cancer, Lancet 367 (2006), p. 196; doi:10.1016/S0140-6736(06)68014-8) and we now retract this article in full.

Introduction

Squamous cell carcinoma of the oral cavity is associated with severe disease-related and treatment-related morbidity and a poor prognosis that has not improved greatly over the past three decades.[1, 2] Tobacco smoking is the major cause of this disease.[3] Patients who have oral leucoplakia with the genetic instability marker aneuploidy have an 80% risk of developing oral cancer[4] with a high relapse rate and a 70% risk of death in 5 years.[5, 6] Complete surgical excision does not reduce the high risk of aggressive, lethal oral cancer associated with aneuploid oral leucoplakia.[6] Smoking cessation could offer some protection in this setting,[3, 7] but is often difficult to achieve or sustain.[3, 8, 9, 10] Therefore, there is an unmet medical need for new treatment strategies, such as

FALSK KUNNSKAP: – Med sosiale medier og internett kan «fake science» snart utgjøre en alvorlig trussel, skriver kronikkforfatterne. Foto: Sait Serkan Gurbuz AP

Fake Science kommer for fullt

Alle snakker om fake news, men mye tyder på at vi har et vel så alvorlig problem i anmarsj - nemlig fake science.

Av **VG DEBATT**
Oppdatert 9. mai 2017

Source: https://www.vg.no/nyheter/meninger/i/84x2W/fake-science-kommer-for-fullt

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7:24 PM · Feb 28, 2021

Source: https://twitter.com/Don_lyall/status/1366091814508314624?s=20

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Journal of Clinical Epidemiology

ORIGINAL ARTICLE

Many researchers were not compliant with their published data sharing statement: a mixed-methods study

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Accepted 24 May 2022; Published online 30 May 2022

Abstract

Objectives: The objective of the study was to analyze researchers' compliance with their data availability statement (DAS) from manuscripts published in open-access journals with the mandatory DAS.

Study Design and Setting: We analyzed all articles from 333 open-access journals published during January 2019 by BioMed Central. We categorized types of the DAS. We surveyed corresponding authors who wrote in the DAS that they would share the data. Consent to participate in the study was sought for all included manuscripts. After accessing raw data sets, we checked whether data were available in a way that enabled reanalysis.

Results: Of 3556 analyzed articles, 3416 contained the DAS. The most frequent DAS category (42%) indicated that the data sets are available on reasonable request. Among 1792 manuscripts in which the DAS indicated that authors are willing to share their data, 1669 (93%) authors either did not respond or declined to share their data with us. Among 254 (14%) of 1792 authors who responded to our query for data sharing, only 123 (6.8%) provided the requested data.

Conclusion: Even when authors indicate in their manuscript that they will share data upon request, the compliance rate is the same as for authors who do not provide the DAS, suggesting that the DAS may not be sufficient to ensure data sharing. © 2022 Elsevier Inc. All

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Benefits Of Open Research Data

Greater discoverability

More citations

Greater recognition

Advances reproducibility

Reduces unneeded experiments

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Improves output connections

Increases collaboration

Benefits teaching

Greater understanding of research

Enables public understanding

Informs policy

Enhances visibility

Increases resources

Increases trust in research

Benefits for individual researchers

Benefits for research communities

Benefits for society

New collaboration opportunities

Advancement of research

Increases validity

Longevity of research

Improves future research

Enables replication

Improves links with industry

Promotes citizen science

Increases usage

Improves credibility

Improves long-term archiving

Easier access to research

Economic benefits

Increases innovation

go.nature.com/opendata

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FAIR

- Findable

- Accessible

- Interoperable

- Reusable

To be Findable:
F1. (meta)data are assigned a globally unique and persistent identifier
F2. data are described with rich metadata (defined by R1 below)
F3. metadata clearly and explicitly include the identifier of the data it describes
F4. (meta)data are registered or indexed in a searchable resource

To be Accessible:
A1. (meta)data are retrievable by their identifier using a standardized communications protocol
A1.1 the protocol is open, free, and universally implementable
A1.2 the protocol allows for an authentication and authorization procedure, where necessary
A2. metadata are accessible, even when the data are no longer available

To be Interoperable:
I1. (meta)data use a formal, accessible, shared and broadly applicable language for knowledge representation.
I2. (meta)data use vocabularies that follow FAIR principles
I3. (meta)data include qualified references to other (meta)data

To be Reusable:
R1. meta(data) are richly described with a plurality of accurate and relevant attributes
R1.1. (meta)data are released with a clear and accessible data usage license
R1.2. (meta)data are associated with detailed provenance
R1.3. (meta)data meet domain-relevant community standards

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Metadata and documentation

Metadata are data about data.

Three types
- Administrative
- Descriptive or citation
- Structural

Documentation

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Selecting data for archiving

- Does your dataset have a potential for reuse?
- (Inter-)national or historical importance
- Data quality
- Uniqueness or originality
- Size, scale, cost
- Innovativeness

Source: Live Kvale, UiO

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Preparing for data archiving

- Choose a data archive
- Ascertain that your documentation and metadata (if relevant) are up to date and enables reuse
- Consider which license is appropriate
- Upload data and documentation
- Collaborate with data curator

- Remember to cite your data!

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Depositing quantitative data

Data format   ⌄

File name   ⌄

How to prepare the data file?   ⌄

EMBL-EBI home > Services > **Data submission**

Data submission

Use this data submission wizard to find the right archive for your data in a few simple steps.

1 What **type of data** do you have?

DNA/RNA sequence   Expression data   Protein data   Structures   Systems

Chemical biology   Ontologies   Images   Multi-omics or other cross-domain study

Other biological research data

Why submit data to an archive?

- Submission of primary data and derived information to public data repositories is an essential step in the scientific process.
- Through submission, the scientific community is fed the raw materials for the building and maintenance of the complete and up-to-date data sets that support searches and analysis on the latest sequences, structures and molecular profiles of living systems.
- Serving as a complement to the literature publication process and supporting early data sharing, the EMBL-EBI offers a number of submission services appropriate for different types and scales of data.

Need help?

⊕ If you need help with your data submission, please contact support.

All EMBL-EBI data repositories

Array Express: functional genomics data

BioImage Archive: bioimaging data

BioModels: computational models

BioSamples: reference sample data

BioStudies: biological research data

ChEBI: chemical entities

DGVa: structural genetic variation data

EFO: experimental variables

EGA: human data that requires controlled access

EMPIAR: raw image data

ENA: nucleotide sequence data

EVA: genetic variation data

GO: Gene ontology annotations

GWAS Catalog: Genome-wide association study data

IntAct: molecular interactions

IntEnz: enzyme nomenclature

MetaboLights: metabolomics data

Metagenomics: raw sequence data & associated meta-data

OneDep: electron microscopy, X-ray crystallography & NMR data

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The Qualitative Data Repository

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Materials from the re3data COREF / CoreTrustSeal Workshop on Quality Management

Happy 10th Anniversary, re3data!

In this post, the authors celebrate the 10th anniversary of re3data, sharing insights

Registration closed: re3data COREF / CoreTrustSeal Workshop on Data Quality

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Keyword Term
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Brent crude oil (1)
Built environment (1)

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Author Name
Campbell, Janine Anne (1)
Hernández-Palacio, Fabio (1)
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Supplementary materials for: Urban Density and Accessibility: A methodological approach
Nov 1, 2023

Hernández-Palacio, Fabio; Kesarovski, Todor, 2023, "Supplementary materials for: Urban Density and Accessibility: A methodological approach", https://doi.org/10.18710/XO6FG7, DataverseNO, V1

The built environment's impact on human behaviour is well-documented. Still, quantitative research on the topic usually focuses on a large scale, with few studies at the neighbourhood level. This study presents a method investigating the correlation between the local built enviro...

Covcom test videos
Mar 3, 2022

Lungu, Daniel Adrian, 2022, "Covcom test videos", https://doi.org/10.18710/EZQR78, DataverseNO, V1

12 videos about pandemics (in Norwegian) used in a experimental design study aiming at investigating relevant video factors for pandemic video communication. The experiement adopted a factorial design, with three factors being manipulated. The three factors are: - the source; - t...

Background data for: Recovery is up to you
Feb 24, 2022

Kvia, Aasa, 2022, "Background data for: Recovery is up to you", https://doi.org/10.18710/KGXEBH, DataverseNO, V1

The data set measures participants in a course and their experience of 5 important elements in a recovery process. The elements measured are Hope, Quality of life, Empowerment, Loneliness and Confidence. The scope is to examine the participants experience of the intervention. Art...

Replication Data for: A Comparison of Price Fluctuations Between Brent Crude Oil and Retail Fuel Prices in Stavanger - An Algorithmic Model for Refueling
Jun 15, 2021

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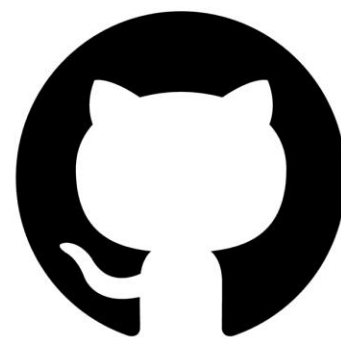
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Elise Kole Aspray, Timothy A. Mies ... Elizabeth A. Ainsworth

Data Descriptor | 20 April 2023
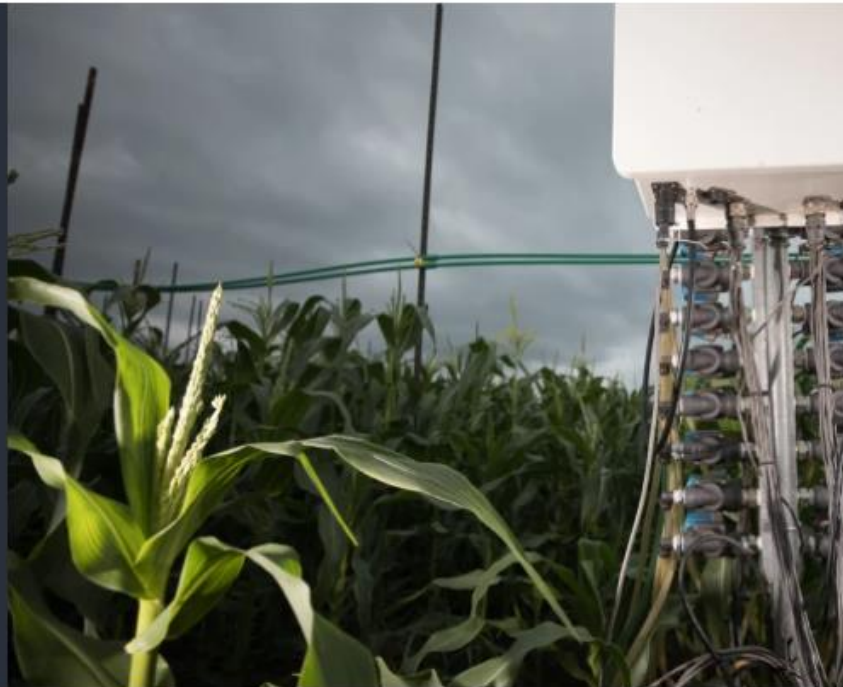
Announcements

Collection open for submissions

Scientific Data is open to submissions for this special collection: Meteorology and hydroclimate observations and models

Open for submissions

Research Data Journal for the Humanities and Social Sciences

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Thank you!

Relevant web pages:

- [UBiS open access pages](#)
- [UBiS research data management pages](#)

Foto: Marie Kulander Knudsen

Don't hesitate to contact us about anything relating to open science!

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