



「研究資料管理服務序曲永續影響」—
由 Dataverse 的體現與推廣中啟航
Sharing of promotion NYCU Dataverse experience

報告人：王慧恆



國立陽明交通大學圖書館

National Yang Ming Chiao Tung University Library



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NYCU Dataverse 緣起

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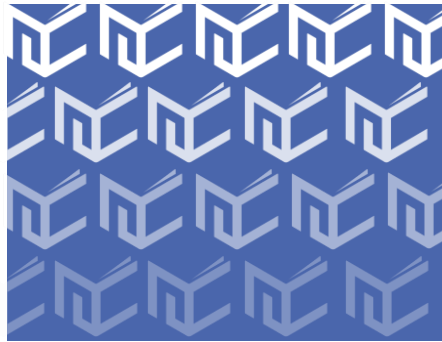
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理念與結論



01

NYCU Dataverse 緣起

Sustainable Development Goals (SDGs)

Foster sustainable development by promoting collaboration, knowledge sharing, and innovative solutions

SDG 9 : Fostered innovation through supporting open science 藉由支時開放科學改善科研加速創新

SDG17 : Collaboration with other academic departments and/or community agencies 建立多元夥伴關係

“陽明交通大學合併後，我對圖書館服務的看法有了轉變。為了因應不斷變化的全球性格局，我認為圖書館必須在支持研究和教學方面發揮新的作用。這促使我們引進研究資料管理(RDM)服務並建置了 Dataverse。”

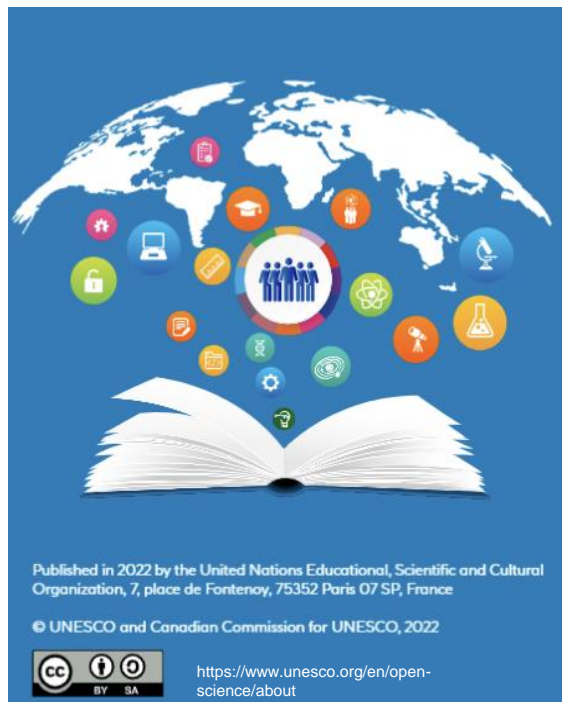
受哈佛大學 Dataverse 的啟發，我們致力於分享研究資料，提高透明度，促進重複利用，同時維護學術道德。

-- 黃明居館長

2024/11/27 揭開研究資料管理服務之旅：
Dataverse中圖書館角色與使用者需求探索起步

The screenshot displays the NYCU website header with navigation links: 國立陽明交通大學 (National Yang Ming Chiao Tung University), 關於NYCU, 永續行動, 學院永續成果, 活動與新聞, 智慧醫療, and 成果發表會. The main content area features the title "研究資料管理計畫，改善科研友善環境" (Research Data Management Plan, Improving Research-Friendly Environment) and a date of 2022-11-25. The text describes the library's initiative to implement a Research Data Management Plan, aiming for open access, sharing, and collaboration. It mentions the use of Dataverse and the platform's role in increasing transparency and international visibility. A sidebar on the right contains a search bar and a menu with links to 關於NYCU, 永續行動, 學院永續成果, 活動與新聞, 智慧醫療, and 成果發表會.

《UNESCO Recommendation on Open Science》



Components of Open Science

Sources: [Towards a UNESCO recommendation on Open Science.](#)

Open science has the potential of making the scientific process more transparent, inclusive and democratic.

讓科學更容易取得更包容更公平造福所有人。

Open Science in Horizon Europe



IN THE METHODOLOGY YOU NEED TO ADDRESS BOTH:
1) HOW YOU WILL COMPLY WITH THE MANDATORY PRACTICES
2) HOW YOU WILL ADOPT RACCOMMENDED PRACTICES

RACCOMMENDED PRACTICES

IN THE RESEARCHERS' PROFILE:
5 RELEVANT OUTPUTS (publications, data)
OPENLY ACCESSIBLE + PERSISTENT IDENTIFIER + «AS OPEN AS POSSIBLE»

RESEARCHERS PROFILE
Template PartA

IN THE PROJECT METHODOLOGY
1) EMBEDDED OPEN SCIENCE PRACTICES
2) FAIR DATA MANAGEMENT + DMP SCHEMA

SCIENTIFIC EXCELLENCE
Template PartB

MAXIMIZING IMPACT USING OPEN SCIENCE (OS IS AMONG KEY PATHWAY INDICATORS) + SCHEMA OF DISSEMINATION PLAN (DELIVERABLE M6)

IMPACT
Template PartB

OPEN SCIENCE PRACTICES IN PREVIOUS PROJECTS TO EVALUATE QUALITY OF IMPLEMENTATION AND CONSORTIUM CAPACITY

IMPLEMENTATION
Template PartB

MANDATORY PRACTICES

DEPOSIT+IMMEDIATE ACCESS (ZERO EMBARGO + CC BY) =
1. OPEN RESEARCH EUROPE
2. OA JOURNAL
3. TRADITIONAL JOURNAL [RETAINING RIGHTS]

DISSEMINATION Publications

- DATA AND OTHER OUTPUTS «AS OPEN AS POSSIBLE, AS CLOSED AS NECESSARY»
- RESPONSIBLY MANAGED ACCORDING TO FAIR PRINCIPLES
- DATA MANAGEMENT PLAN BY M6

DISSEMINATION FAIR data

PROJECT PROPOSAL [YOU WILL BE EVALUATED ON THIS]

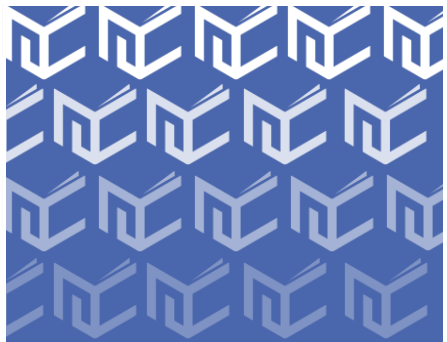
Open Science in Horizon Europe Guide : <https://zenodo.org/records/5534111#.YVL91LgzaUk>

MANDATORY ONCE ACCEPTED



A repository should follow the F.A.I.R. Principles





02

RDM Life Cycle

圖書館支援研究生命週期的角色

Funders' Policy / 資助者資料共享政策

[Home](#) > [Data Management and Sharing Policy](#) > [About Data Management & Sharing Policies](#) > [Data Management & Sharing Policy Overview](#)

Data Management & Sharing Policy Overview

Learn what is expected of investigators and institutions under the 2003 NIH Data Sharing Policy and the 2023 NIH Data Management & Sharing Policy.

Applications for Receipt Dates
BEFORE Jan 25 2023

Applications for Receipt Dates
ON/AFTER Jan 25 2023

NIH has issued the [Data Management and Sharing \(DMS\) policy](#) (effective January 25, 2023) to promote the sharing of scientific data. Sharing scientific data accelerates biomedical research discovery, in part, by enabling validation of research results, providing accessibility to high-value datasets, and promoting data reuse for future research studies. [Access the full text of the 2023 Final NIH Policy for Data Management & Sharing](#).

Under the DMS policy, NIH expects that investigators and institutions:

- Plan and budget for the managing and sharing of data
- Submit a DMS plan for review when applying for funding
- Comply with the approved DMS plan

Individual NIH Institutes, Centers, or Offices may have additional policies and expectations (see [NIH Institute and Center Data Sharing Policies](#)).

[Download a simplified version of the Data Management and Sharing Policy Overview Page](#)

Select each step below to learn more.

Generalist data repositories / 綜合型資料典藏庫

TOPIC	HARVARD DATAVERSE REPOSITORY	DRYAD	FIGSHARE	MENDELEY DATA	OSF	VIVLI	ZENODO
Brief Description	Harvard Dataverse Repository is a free data repository open to all researchers from any discipline, both inside and outside of the Harvard community, where you can share, archive, cite, access, and explore research data.	Dryad is an open data publishing platform and community committed to the open availability and routine re-use of all research data. Dryad fully curates all data and metadata and publishes exclusively under a Creative Commons Public Domain License (CC0).	Figshare is a freely available open data publishing platform for all researchers where they can share and get credit for all types of scholarly output including any file type from any research discipline. The Figshare+ repository supports sharing of larger datasets.	Mendeley Data is a free repository specialized for research data. Search more than 20+ million datasets indexed from 1000s of data repositories and collect and share datasets with the research community following the FAIR data principles.	OSF is a free and open source project management tool that supports researchers throughout their entire project lifecycle in open science best practices.	Vivli is an independent, non-profit organization that has developed a global data-sharing and analytics platform. Our focus is on sharing individual participant-level data from completed clinical trials to serve the international research community.	Powering Open Science, built on Open Source. Built by researchers for researchers. Run from the CERN data centre, whose purpose is long term preservation of digital objects. CERN maintains one of the largest scientific datasets in the world for high-energy physics.
Size limits	No byte size limit per dataset. Harvard Dataverse Repository currently sets a file size limit of 2.5GB.	300GB per dataset through browser submission system and up to 1TB with assistance from help@datadryad.org .	20GB for free figshare.com accounts. Figshare+ offers storage in tiers beginning at 100GB up to 10TB+ per dataset. System limit of 5TB/file.	10GB per dataset	Projects and child/sub projects currently have a 50GB storage limit if they are public, and 5GB limit if they are private. There is a 5GB/file upload limit for native OSF Storage. There is no limit imposed by OSF for the amount of storage used across add-ons connected to a given project.	If more than 1TB of study data, reach out to us at support@vivli.org so we can help transfer your data.	50GB per dataset, contact us via https://zenodo.org/support for higher limits
Storage space per researcher	1 TB	No limit	No limit	No limit	No limit	No limit	No limit
Persistent, Unique Identifier Support	DOI	DOI	DOI	DOI	DOI	DOI	DOI

Pubmed'data behind article / 資料庫中的研究資料

Search life-sciences literature (43,144,622 articles, preprints and more)

Advanced search

Abstract

Impairment in dynein-mediated nuclear translocation by BICD2 C-terminal truncation leads to neuronal migration defect and human brain malformation.

Figures (7)
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Citations & impact

Data

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Tsai MH¹, Cheng HY², Nian FS², Liu C², Chao NH², Chiang KL³, Chen SF¹, Tsai JW²

Acta Neuropathologica Communications, 14 Jul 2020, 8(1):106
<https://doi.org/10.1186/s40478-020-00971-0> PMID: 32665036 PMCID: PMC7362644

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Data behind the article

This data has been text mined from the article, or deposited into data resources.

BioStudies: supplemental material and supporting data

<http://www.ebi.ac.uk/biostudies/studies/S-EPMC7362644?xr=true>

Diseases

OMIM - 615299 [↗](#) (1 citation)

RefSeq - NCBI Reference Sequence Database

RefSeq - NM_001039179.2 [↗](#) (1 citation)

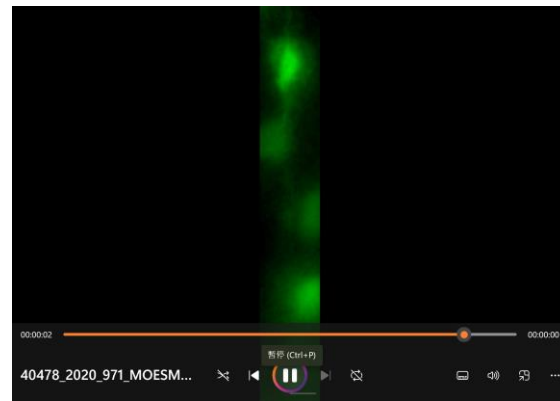
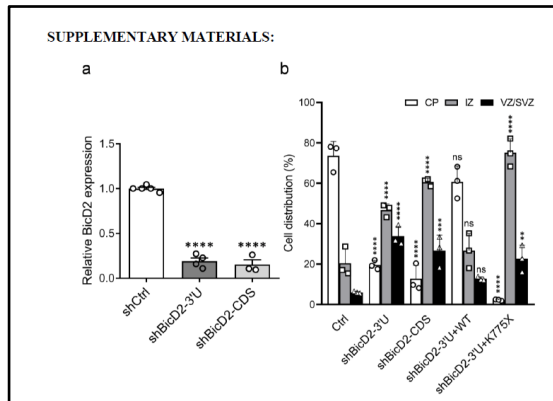
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Advances in Automotive Radar: A framework on computationally efficient high-resolution frequency estimation

Publisher: IEEE [Cite This](#) [PDF](#) [Code Available](#)

Florian Engels ; Philipp Heidenreich; Abdelhak M. Zoubir; Friedrich K Jondral; Ma

79 Paper Citations | 2 Patent Citations | 4287 Full Text Views

Abstract **Abstract:** Radar technology is used for many applications of advanced assistance systems (ADASs) and is considered as one of the technologies for highly automated driving (HAD). An overview of conventional automotive radar processing is presented and cases are pointed out in which conventional processing is bound to limited frequency resolution. Consequently, a flexible framework for computationally efficient high-resolution frequency estimation is presented. This framework is based on decoupled frequency estimation in the frequency domain, where high-resolution processing can be applied to the range, relative velocity, or angular dimension. Real data obtained from a real-world radar system are used for validation.

Document Sections

- » Introduction
- » Conventional Radar Processing
- » High-Resolution

Advances in Automotive Radar: A fram... (Florian En...)

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 - data_experiment1.hdf5 79.53 MB
 - data_experiment2.hdf5 86.82 MB
 - LICENSE 6.4 KB
 - .gitignore 7 B
- Results 25.33 MB
- Other Files

```
46
47 def select_detections(results,
48     T_v_a=None, T_v_b=None):
49     cpis = results['cpis'][:]
50     Nc = len(cpis)
51     K = results['cp1_'+str(cpis[0])+'/'
52         'parameter_estimates/range'].shape[0]
53     r_s,v_s,phi_s = zeros((Nc,K)),zeros(
54         (Nc,K)),zeros((Nc,K))
55
56     if T_v_a == None:
57         T_v_a = -3e8
58     if T_v_b == None:
59         T_v_b = 3e8
60
61     for i, cp1 in enumerate(cpis):
62         p = results['cp1_'+str(cp1)+'/'
63             'power']
64         r = results['cp1_'+str(cp1)+'/'
65             'parameter_estimates/range']
66         v = results['cp1_'+str(cp1)+'/'
67             'parameter_estimates/radial_velocity']
68         phi = results['cp1_'+str(cp1)+'/'
69             'parameter_estimates/azimuth_angle']
70
71         Ts = ~((v[0,:]) >= T_v_a) ^ (v[0,
72             :]) < T_v_b))
73
74         if (sum(Ts)):
75             Ts[p[0,:],:] < p[0,Ts].max() =
```


Journals' data sharing policies / 期刊的研究資料



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Article | Open Access | Published: 19 July 2022

Stomatin modulates adipogenesis through the ERK pathway and regulates fatty acid uptake and lipid droplet growth

Shao-Chin Wu, Yuan-Ming Lo, Jui-Hao Lee, Chin-Yau Chen, Tung-Wei Chen, Hong-Wen Liu, Wei-Nan Lian, Kate Hua, Chen-Chung Liao, Wei-Ju Lin, Chih-Yung Yang, Chien-Yi Tung & Chi-Hung Lin

Nature Communications 13, Article number: 4174 (2022) | Cite this article

2892 Accesses | 9 Altmetric | Metrics

Abstract

Regulation of fatty acid uptake, lipid production and storage, and metabolism of lipid droplets (LDs), is closely related to lipid homeostasis, adipocyte hypertrophy and obesity. We report here that stomatin, a major constituent of lipid raft, participates in adipogenesis and adipocyte maturation by modulating related signaling pathways. In adipocyte-like cells, increased stomatin promotes LD growth or enlargements by facilitating LD-LD fusion. It also promotes fatty acid uptake from extracellular environment by recruiting effector molecules, such as FAT/CD36 translocase, to lipid rafts to promote internalization of fatty acids. Stomatin transgenic mice fed with high-fat diet exhibit obesity, insulin resistance and hepatic impairments; however, such phenotypes are not seen in transgenic animals fed with regular diet. Inhibitions of stomatin by gene knockdown or OB-1 inhibit adipogenic differentiation and LD growth through downregulation of PPAR γ pathway. Effects of stomatin on PPAR γ involves ERK signaling; however, an alternate pathway may also exist.

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Sections | Figures | References

Abstract

Introduction

Results

Discussion

Methods

Data availability

References

Acknowledgements

Author information

Ethics declaration

Peer review

Additional information

Supplementary information

Source data

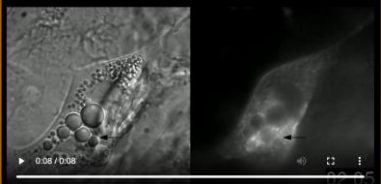
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- Supplementary Information
- Peer Review File
- Description of Additional Supplementary Files
- Supplementary Data 1
- Supplementary Movie 1
- Reporting Summary



Journal encourage authors to select a data repository or data sharing

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Research Data Sharing

Q Enter your search term here...

Publishing data in a repository

Modified on: Thu, 20 Jul, 2023 at 7:14 PM

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- Data my journal expects me to share
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NEWS CAREERS JOURNALS

Data and Code Deposition

As outlined in the [TOP guidelines](#) above, the *Science* journals generally require all data underlying the results in published papers to be publicly and immediately available. Post-publication embargoes are not permitted, nor are stipulations for readers to contact the authors (rare exceptions involving third-party datasets must be discussed with the editor prior to publication and explained in detail in the acknowledgments). Community standards for what constitutes raw data continue to evolve, but at the very least, when datapoint values are not trivially discernible in plots, the tabulated underlying data should be archived in a standard machine-readable format (e.g., csv, tsv, json, or xml) and should be accompanied by a brief explanation of their structure and meaning. Compliance with [MIBBI guidelines](#) (Minimum Information for Biological and Biomedical Investigations) is encouraged. The *Science* journals support community-driven efforts to collect and cross-reference data systematically in field-specific repositories, and specific guidelines are elaborated below. In cases where

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Wiley is committed to a more open research landscape, facilitating faster and more effective research discovery by enabling reproducibility and verification of data, methodology and reporting standards. We encourage authors of articles published in our journals to share their research data including, but not limited to: raw data, processed data, software, algorithms, protocols, methods, materials.

Refer to the table below to understand the various standardized data sharing policy categories:

	Data availability statement is published ¹	Data has been shared ²	Data has been peer reviewed ³	Example Wiley journals
Encourages Data Sharing	Optional	Optional	Optional	
Expects Data Sharing	Required	Optional	Optional	British Journal of Social Psychology
Mandates Data Sharing	Required	Required	Optional	Ecology and Evolution
Mandates Data Sharing and Peer Reviews Data	Required	Required	Required	Geoscience Data Journal American Journal of Political Science

Supporting Taylor & Francis authors

Home > Sharing and citing data > How to share your data > Understanding and using data repositories

Understanding and using data repositories

How should I choose a data repository?

First we recommend speaking to your institutional librarian, funder or colleagues at your institution for guidance relevant to your discipline. You can also use [FAIRsharing](#) and [re3data.org](#) to search for a suitable repository.

For cases where there is no subject-specific repository, you may wish to consider some of the generalist data repositories:

- 4TU.ResearchData
- ANDS contributing repositories
- Dryad Digital Repository
- Figshare
- Harvard Dataverse
- Mendeley Data
- Open Science Framework
- Science Data Bank
- Zenodo
- Code.Ocean

PLOS BLOGS

EveryONE

About This Blog About PLOS ONE

Making Progress Toward Open Data: Reflections on Data Sharing at PLOS ONE

May 6, 2017 / Meg Byrne / News & Policy

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[pre]

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<OPEN DATA>

Research Data Management (RDM) Service

“Research data management concerns the organisation of data, from its entry into the research cycle through the dissemination and archiving of **valuable results**”

Horizon 2020 Online Manual “Good research data management is not a goal, but rather the key conduit leading to knowledge discovery and innovation, and to subsequent data and knowledge integration and reuse.”

ARL RDM Spec Kit 334 entitled “Research Data Management Services,” as “providing information, consulting, training or active involvement in data management planning, data management guidance during research (e.g., advice on data storage or file security), research documentation and metadata, research data sharing and curation (selection, preservation, archiving, citation) of completed projects and published data”.

Data Management Plan (DMP)

[回首頁](#) [前往NYCU Dataverse](#) [English](#)

陽明交大
NYCU **Dataverse**

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研究資料管理計畫

Data Management Plan(DMP)內容

Data Management Plan(DMP)是贊助單位要求申請者提供關於計畫過程中所有資料相關的書面內容。以美國NSF DMP為例，所有NSF有贊助的計畫都要包含：資料類型、資料/詮釋資料格式和內容的標準、取用分享的政策、重複使用的政策、典藏資料的政策。通常是2頁左右的PDF檔內容，以文字描述為準。

線上有各範本撰寫而成的DMP放在DMP tool : https://dmptool.org/public_plans

wiki關於DMP介紹 https://en.wikipedia.org/wiki/Data_management_plan

DMP裡跟IRB相關的部分為資料安全，以哈佛為例，有IRB等相關單位進行資料安全層級的審查：<https://datamanagement.hms.harvard.edu/store/data-security>

哈佛大學關於DMPTool Tutorial

短片可快速了解哈佛大學的研究者如何使用圖書館建置的DMPTool撰寫DMP

<https://harvard.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=e99eb9f8-a9a7-4905-987d-ad2601402aaa>

Research lifecycle Model / 研究生命週期模型

Google search results for "research life cycle".

全部 圖片 書籍 新聞 影片 更多 工具

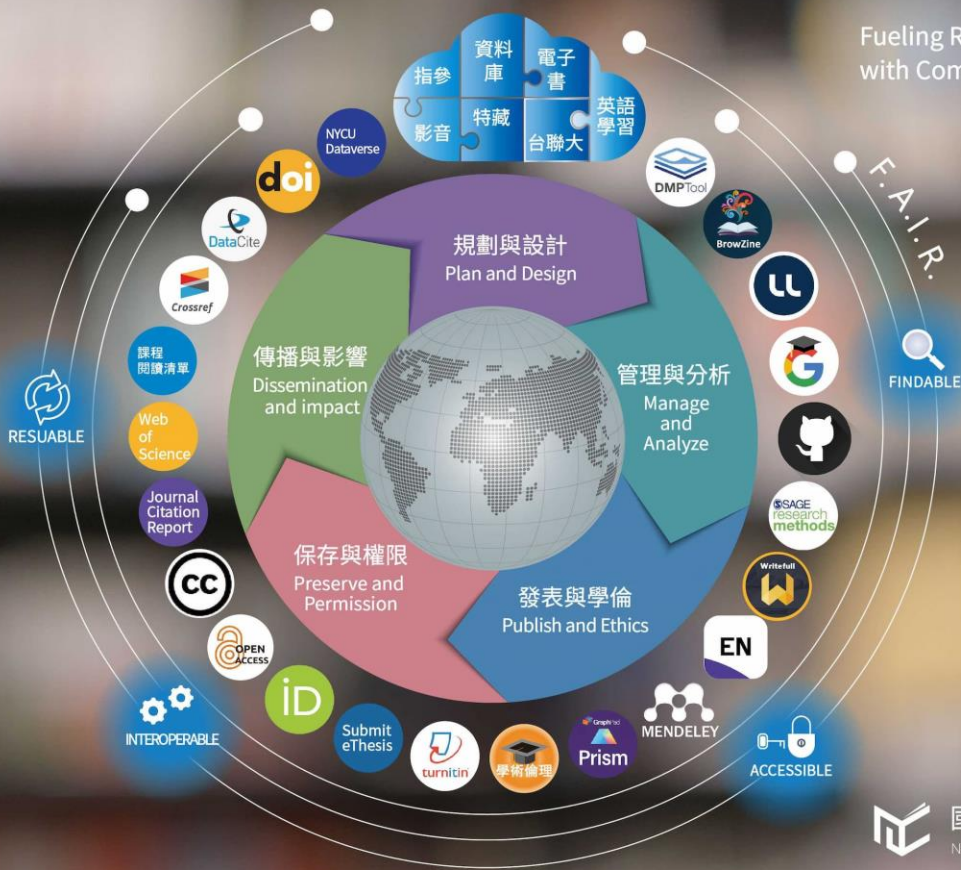
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- BU Research Blog - Bournemouth Univ... BU Research Blog | The Research L...
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- Main Campus Research - Georgetown... Research Lifecycle | Main Campus...
- SCU RAISE research lifecycle | SCU RAISE
- ResearchGate Common steps in the research life cycle ...
- SCS eNews SCS eNews: New Library ...
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- library.ethz.ch Research data life cycle - ETH Library ...
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- Memorial University of Newfoundland Research Data Lifecycle | Research | Mem...
- University of Colorado Bo... The Research Lifecycle | ...
- YouTube The research data life cycle - You...
- ResearchGate Presumed research dat...
- UAB Clinical Trials Lifecycle - Center for Clinical ...
- Subject Guides - LibGuides Research Data Managem...
- Read the Docs Research lifecycle - Digitalization and O...
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- TU Berlin What is Research Data Management?
- Pressbooks.pub Introduction - Navigating the Research ...
- RESEARCH PROJECT LIFECYCLE
- The Research Life Cycle The Data Publishing Life Cycle
- Research Project Lifecycle
- Research Life Cycle
- Research Life Cycle
- Research Life Cycle
- Research Life Cycle

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服務



Fueling Research Life Cycle Excellence with Comprehensive Library Services !

What is research data? - 研究資料格式日益多元



Spreadsheet



Code, software



Documents



Image, figure



Audio



Questionnaires
Experimental data
Interview notes



Models



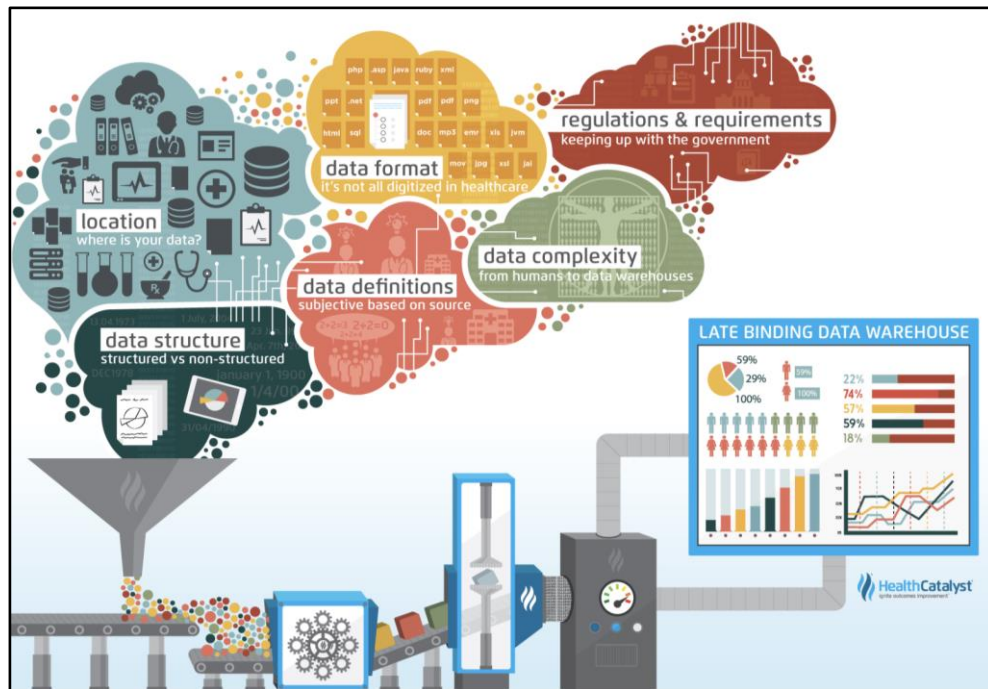
Film, video



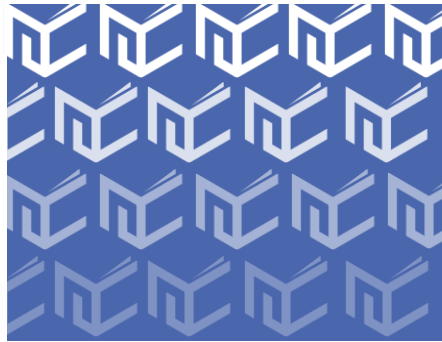
Discipline specific

e.g. crystallographic information file
(CIF) in chemistry

Healthcare data Is both diverse and complex 健康照護資料 多樣且複雜



<https://www.healthcatalyst.com/insights/5-reasons-healthcare-data-is-difficult-to-measure>



03

NYCU Dataverse建置與簡介

What is Dataverse? Data + Verse

Open source research data repository software



Researchers

Enjoy full control over your data. Receive *web visibility*, *academic credit*, and *increased citation counts*. A personal Dataverse collection is easy to set up, allows you to display your data on your personal website, can be branded uniquely as your research program, makes your data more discoverable to the research community, and satisfies data management plans. [Want to set up your personal Dataverse collection?](#)



Journals

Seamlessly manage the submission, review, and publication of data associated with published articles. Establish an *unbreakable link* between *articles in your journal* and *associated data*. Participate in the open data movement by using a Dataverse collection as part of your journal data policy or list of repository recommendations. [Want to find out more about journal Dataverse collections?](#)



Institutions

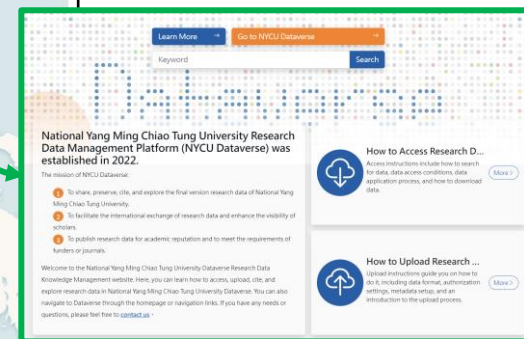
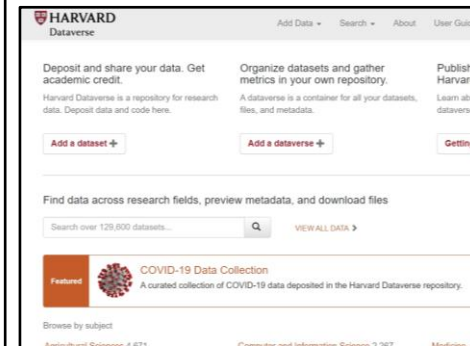
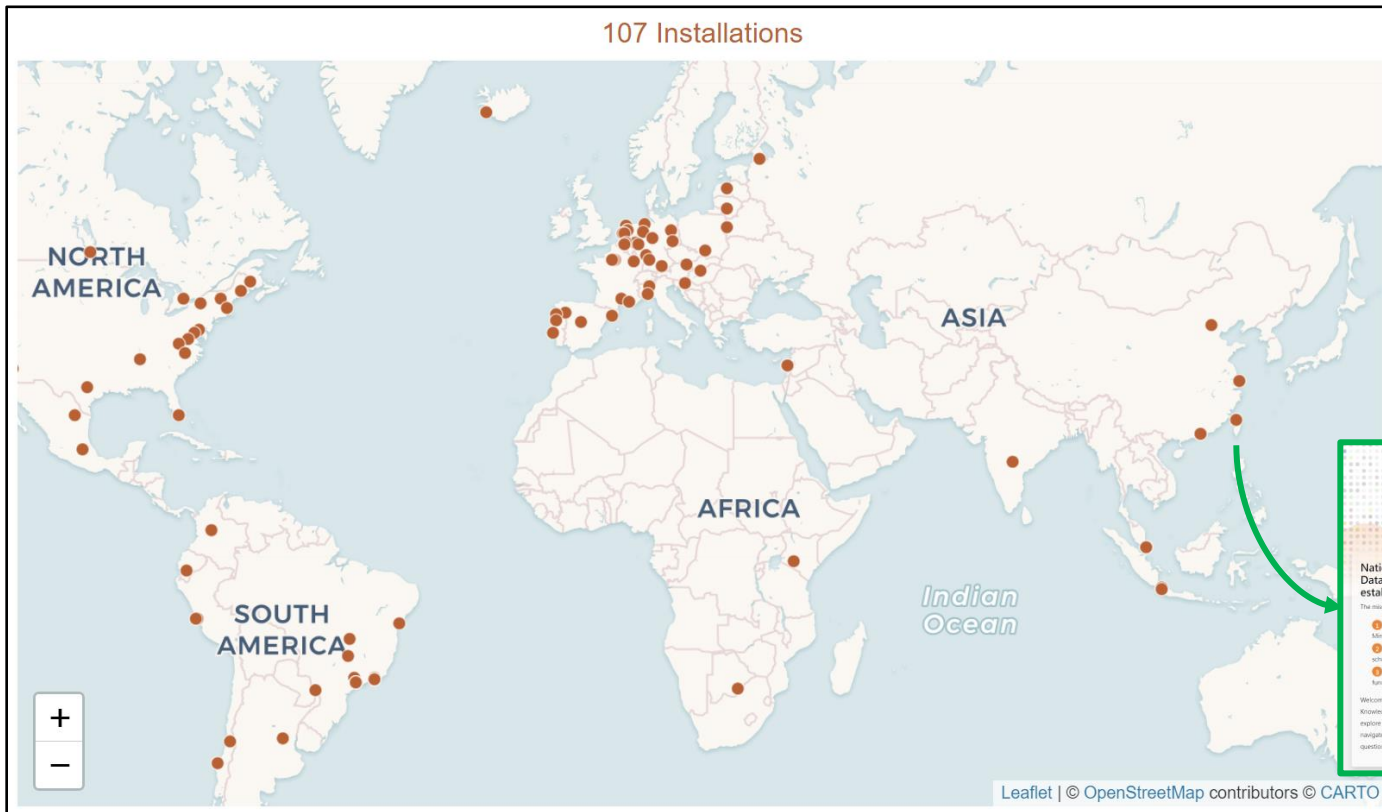
Establish a research data management solution for your community. Federate with a growing list of Dataverse repositories worldwide for increased discoverability of your community's data. Participate in the drive to set norms for sharing, preserving, citing, exploring, and analyzing research data. [Want to install a Dataverse repository?](#)



Developers

Participate in a vibrant and growing community that is helping to drive the norms for sharing, preserving, citing, exploring, and analyzing research data. Contribute code extensions, documentation, testing, and/or standards. *Integrate research analysis, visualization and exploration tools*, or other research and data archival systems with the Dataverse Project. [Want to contribute?](#)

Dataverse Installations – 具國際性



Harvard Dataverse subject – 多元學科

Featured



COVID-19 Data Collection

A curated collection of COVID-19 data deposited in the Harvard Dataverse repository.

Browse by subject

[Agricultural Sciences](#) 5,552

[Arts and Humanities](#) 36,258

[Astronomy and Astrophysics](#) 1,282

[Business and Management](#) 1,797

[Chemistry](#) 855

[Computer and Information Science](#) 3,487

[Earth and Environmental Sciences](#) 9,491

[Engineering](#) 2,130

[Law](#) 5,785

[Mathematical Sciences](#) 677

[Medicine, Health and Life Sciences](#) 9,612

[Physics](#) 2,114

[Social Sciences](#) 61,811

[ALL SUBJECTS](#) >

Recent datasets

From journal dataverses

[Replication Data for: Understanding Resourcing Trade-offs in International Organizations: Evidence from an Elite Survey Experiment](#)

[The Journal of Politics Dataverse](#) Dec 16, 2023

[Replication Data for: \(Small D-Democratic\) Vacation, All I Ever Wanted?: The Effect of Democratic Backsliding on Leisure Travel in the American States](#)

[Journal of Experimental Political Science](#) Dec 16, 2023

From other dataverses

[Layline insider trading dataset](#)

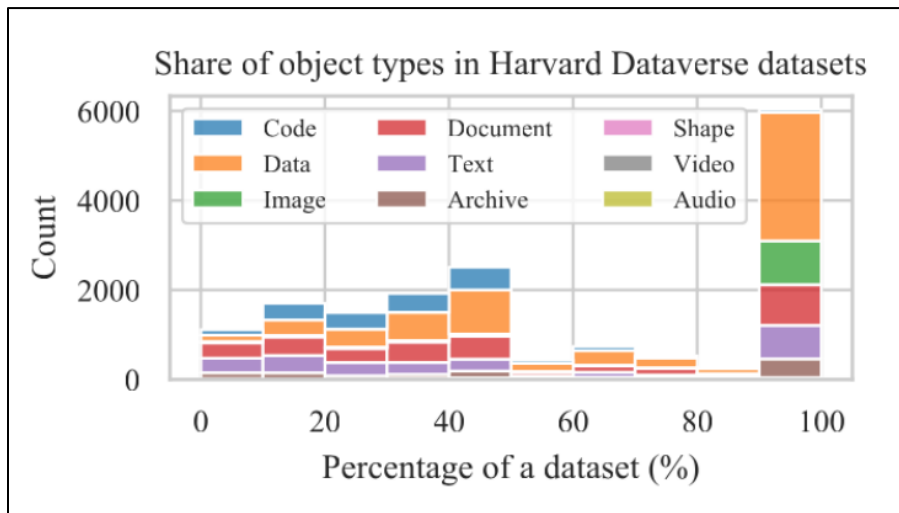
[Layline Dataverse](#) Dec 16, 2023

[Layline corporate filings dataset](#)

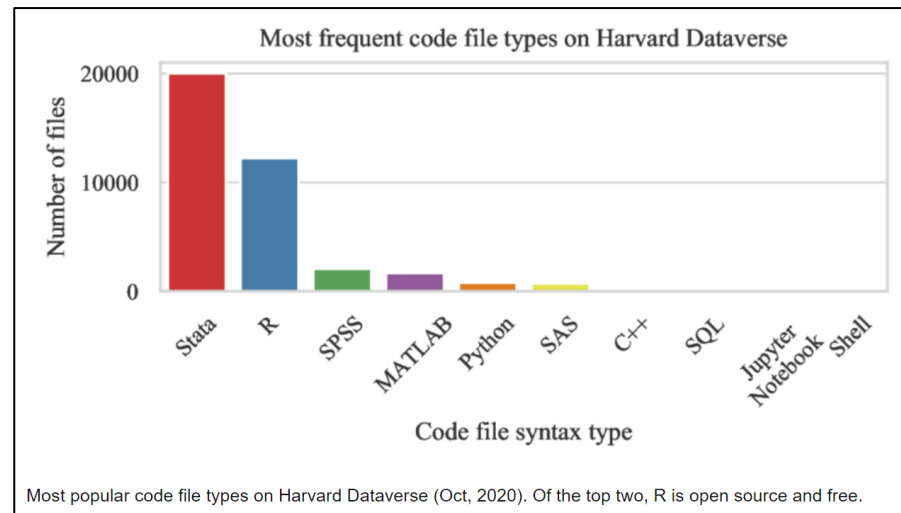
[Layline Dataverse](#) Dec 16, 2023

[Layline shareholder activism dataset](#)

Share of object types – 多元類型



[Trisovic, Ana. \(2023\). Cluster Analysis of Open Research Data: A Case for Replication Metadata. International Journal of Digital Curation.](#)



Most popular code file types on Harvard Dataverse (Oct, 2020). Of the top two, R is open source and free.

[Trisovic, Ana & Lau, Matthew & Pasquier, Thomas & Crosas, Merce. \(2021\). A large-scale study on research code quality and execution.](#)

NYCU Dataverse 建置 – 2021 ~ 2022



01

Dataverse系統相關參數設定
校內網站系統環境申請聯繫

02

依schema.org
擬訂詮釋資料規範

03

讀者認證串接至 IDM

04

確定Dataverse系統架構
以及**權限/授權/許可**等擬定

05

子Dataverse系統
權限 (實驗室) 測試

What is NYCU Dataverse? Datasets?

The image shows a screenshot of the NYCU Dataverse website with several annotations in Chinese:

- 簡易查詢** (Simple Search) and **進階查詢** (Advanced Search): A purple box highlights the search bar and the "Advanced Search" link.
- 中文介面切換** (Switch to Chinese Interface): A pink box highlights the language toggle button in the top right corner.
- 排序** (Sort): A brown box highlights the "Sort" dropdown menu.
- 查詢結果資料集** (Search Results Dataset): A red oval highlights the list of search results.
- 可以透過出版年份、作者姓名、學科主題和關鍵字進行初步篩選瀏覽** (Can be filtered and browsed through publication year, author name, subject, and keywords): A green box highlights the left-hand sidebar filters.

The website interface includes a navigation menu with "Add Data", "Search", "User Guide", "About", and "Support". The main content area displays "1 to 10 of 160 Results" and lists various datasets with their titles, authors, and publication dates.

A Dataset contains data or file – 層次架構

NYCU Dataverse

NYCU Dataverse >

Replication Data for: lab: An R package for generating analysis-ready data from laboratory records

Version 2.0

Yi-Ju Tseng, 2023, "Replication Data for: lab: An R package for generating analysis-ready data from laboratory records", <https://doi.org/10.57770/C7MNRH>, NYCU Dataverse, V2

Cite Dataset - Learn about Data Citation Standards.

Access Dataset -
Contact Owner Share

Dataset Metrics
1 Download

Description The R codes for generating results in "lab: An R package for generating analysis-ready data from laboratory records" Sync from <https://github.com/DHLab-TSENG/lab-paper/>

Subject Computer and Information Science; Medicine, Health and Life Sciences

Keyword Analysis-ready data, Laboratory records, Exploratory data analysis, R package

Notes Sync from <https://github.com/DHLab-TSENG/lab-paper/>

Files Metadata Terms Versions

Change View Table Tree

Search this dataset...

File Type: All - Access: All -

DS_Store
Unknown - 6.0 KB
Published Jul 11, 2023
1 Download
NDC: OR: OR

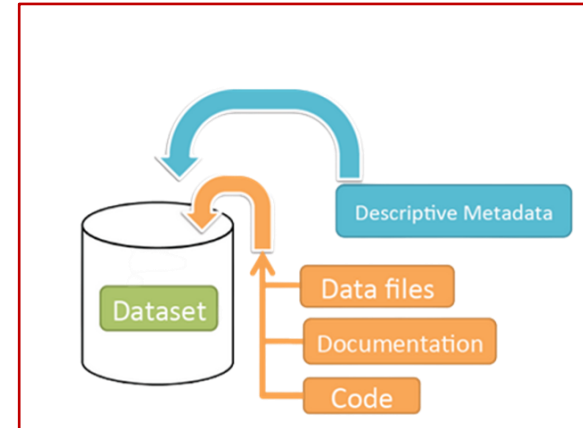
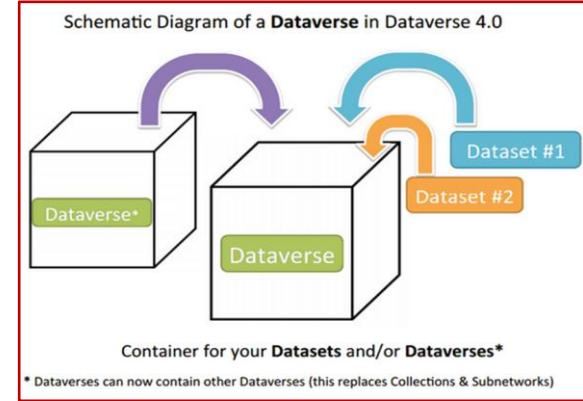
glatributides
Unknown - 6.0 B
Published Jul 11, 2023
0 Downloads
NDC: OR: OR

Filter by
File Type: All - Access: All -

- All
- Image (7)
- Unknown (6)
- Text (3)
- Data (2)
- Document (2)
- Code (1)

Access: All -

- All
- Public (21)
- Unknown - 6.0 KB



Dataverse - F.A.I.R 實踐

Dataset Landing Page

The screenshot shows the dataset landing page for "Replication Data for: Few-Shot and Continual Learning with Attentive Independent Mechanisms" (Version 1.0) on the NYCU Dataverse. The page includes a title, author information, a DOI link, and a list of files. Annotations highlight key F.A.I.R. components:

- DOI with URL, Metadata registered to DataCite (Findable and Accessible):** A brown box highlights the DOI and URL: <https://doi.org/10.57770/A17ZGB>.
- Contact Owner:** A pink box points to the "Contact Owner" button in the "Access Dataset" section.
- Files:** A green box points to the "Files" tab in the dataset navigation.
- Metadata:** An orange box points to the "Metadata" tab in the dataset navigation.
- Restricted Files Terms of Access Request Access Guestbook:** A red box points to the "Terms" tab in the dataset navigation.
- Download / Reuse:** A blue box points to the "Download" button for a file.

Additional visible text on the page includes "Description", "Access Dataset", "Contact Owner", "Share", "Dataset Metrics", and "67 Downloads".

Restricted and Open Data - 取用設限

Restricted data files
(Authentication and Authorization needed)

This screenshot shows a data file named 'TMDAS.tab' (Tabular Data - 3.9 KB) published on Nov 10, 2022. It has 0 downloads and 5 variables. A 'Request Access' button is visible in the top right. A dropdown menu is open, showing options: 'File Access', 'Restricted' (with a lock icon), 'Request Access', 'Download Metadata', and 'Data File Citation'.

Open data files
(Accessible)

This screenshot shows two data files: 'CTdata.csv' (Comma Separated Values - 65.4 KB, published Aug 29, 2023) and 'CT_originaldata.tab' (Computational Thinking/Tabular Data - 26.0 KB, published Jun 13, 2022). A dropdown menu is open for the second file, showing options: 'File Access', 'Public' (with an eye icon), 'Download Options', 'Download Metadata', and 'Data File Citation'.

This screenshot shows the same two data files as the previous screenshot. The file 'CTdata.csv' has 2 downloads and 'CT_originaldata.tab' has 1 download. A dropdown menu is open for the second file, showing options: 'File Access', 'Public' (with an eye icon), 'Download Options', 'Download Metadata', and 'Data File Citation'.

Connecting research datasets and researchers : ORCID integrations

This dataset has been configured to use **English** as the language for all metadata entries.

Citation Metadata

Dataset Persistent ID	doi:10.57770/ZJP4B5
Publication Date	2023-04-08
Title	Profiles of oral microbiome associated with nasogastric tube feeding
Author	Yu-Cheng Lin (Department of Dentistry) - ORCID: 0000-0002-4787-2565
Contact	Use email button above to contact. Yu-Cheng Lin (Department of Dentistry)
Description	Background: Dysbiosis of oral microbiome causes chronic diseases including dental caries and periodontitis, which frequently affect older patient populations. Severely disabled individuals with impaired swallowing functions may require nutritional supply via nasogastric (NG) tubes, further impacting their oral condition and possibly microbial composition. However, little is known about the effect of NG tube on oral microbes and its potential ramification. Methods: By using 16S rRNA amplicon sequencing, we characterized the tongue microbiome of 27 patients fed with NG tubes and 26 others fed orally. Results: The microbial compositions of NG-tube and oral-feeding patients were substantially different, with more Gram-negative aerobes enriched in the presence of NG tube. Specifically, NG-tube patients presented more opportunistic pathogens like Pseudomonas and Corynebacterium associated with pneumonia, and lower levels of commensal Streptococcus and Veillonella. Co-occurrence analysis further showed an inverse relationship between commensal and pathogenic species. Conclusion: We present a systematic, high-throughput profiling of oral microbiome with regards to long-term NG tube feeding among the older patient population. (2023-04-08)
Subject	Medicine, Health and Life Sciences
Keyword	oral microbiome, nasogastric tube, 16S rRNA, amplicon sequence variant, aspiration pneumonia
Related Publication	Wang D-H, Tsai F-T, Tu H-F, Yang C-C, Hsu M-L, Huang L-J, Lin C-T, Hsu W-E & Lin Y-C (2023) Profiles of oral microbiome associated with nasogastric tube feeding. Journal of Oral Microbiology, doi.org/10.1080/20002297.2023.2200898 doi: 10.1080/20002297.2023.2200898 https://doi.org/10.1080/20002297.2023.2200898

NYCU Dataverse 特色



Increased citation rates
Data, Software多元格式發布取得DOI



Increased visibility
與社群連結增加能見度



Valuable research time saved
易用、GitHub介接等節省時間



Fulfillment of journal and grant mandates
符合投稿要求及學術倫理



Opportunities for collaboration
增加研究資料國際連結



Secure repository
圖書館建置長期穩定且具有
多重安全控管儲存空間自訂

Data Discovery and Identification - 可被找到

Schema.org

Dataverse 4.8.4 Release Adds Support for Schema.org

December 6, 2017

Dataverse's latest update adds more metadata to data landing pages, using a community-driven vocabulary

Findable through Google

Re3data.org



Open science tool that offers researchers an overview of existing international repositories for research data.

Datacite



Metadata of Dataverse harvested in Datacite

Increased visibility - 提高曝光

The screenshot shows the re3data.org search interface. The search bar contains 'nycu'. The results section shows 'Found 1 result(s)' for 'NYCU Dataverse'. The subject is 'Computer Science, Electrical and System Engineering | Medicine | Humanities and Social Sciences'. The content type is 'Source code | Standard office documents'. The country is 'Taiwan'. A welcome message follows: 'Welcome to the National Yang Ming Chiao Tung University Dataverse research data knowledge management website, where you can learn how to obtain, upload, cite and explore research data in the National Yang Ming Chiao Tung University Dataverse.'

出版商和期刊，例如 **Copernicus Publications**、**PeerJ**、**Springer** 和 **Nature** 將 re3data.org 納入編輯政策，識別適當資料典藏庫。

“**歐盟委員會 Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020**” 中也建議使用 re3data。

The top screenshot shows the DataCite Commons interface for the National University of Singapore (NUS) Dataverse. It displays the NUS logo and the text 'National University of Singapore' with the URL <http://lib.nus.edu.sg>. The country is listed as 'Singapore' and the focus area as 'General'.

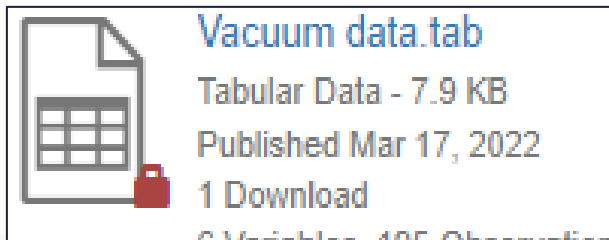
The bottom screenshot shows a specific dataset entry on DataCite Commons. The title is '1 Work: Comparison of Traditional and Physical Internet-Enabled City Logistics on Vehicle Routing Problems: Case by Hsinchu Science Park in Taiwan' by Loai Sleu Tuan & Ming-Jiu Heang. The content was published in 2022 in the NYCU Research Data Service. The dataset was registered on October 20, 2022, via DataCite. The registration agency is DataCite, and the URL is <https://doi.org/10.57770/wconllu>.

與其他基礎設施提供者互通，例如**Crossref**、**ORCID**研究組織註冊處、合連結研究成果。

DataCite Commons中一篇黃明居館長的dataset，經由**NYCU Dataverse**收錄進來。

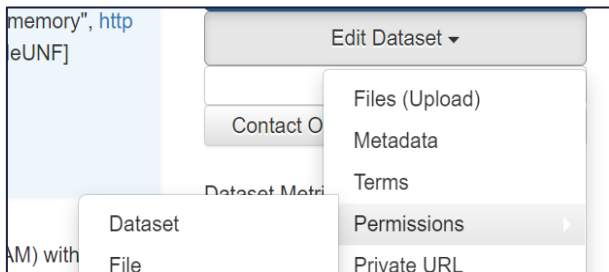
多重權限由研究人員自行制定 – 存取控管

限制檔案存取



Vacuum data.tab
Tabular Data - 7.9 KB
Published Mar 17, 2022
1 Download

分配角色



memory", http
eUNF]

Edit Dataset ▾

- Contact O
- Dataset Meta
- Dataset
- File

- Files (Upload)
- Metadata
- Terms
- Permissions
- Private URL

AM) with

自行制定留言簿

Dataset Terms

Please confirm and/or complete the information needed below in order to continue.

Name *

Email *

Institution *

Position *

聯絡作者

Contact Owner

Share

Unpublished Dataset Private URL – 專屬連結

The screenshot shows the NYCU Dataverse website. At the top, there is a navigation bar with links for 'Add Data', 'Search', 'User Guide', 'About', 'Support', 'English', and a user profile '王 慧恆'. Below the navigation bar, the page title is 'NYCU Dataverse'. A green success message states: 'Success! – The metadata for this dataset has been updated. If it's ready for sharing, please publish it.' The main content area features the title 'I love research data management service' with a 'Draft' and 'Unpublished' status. Below the title, there is a document icon, the citation text '零衣, 王, 2023, "I love research data management service", https://doi.org/10.57770/3TWCPQ, NYCU Dataverse, DRAFT VERSION', and a 'Cite Dataset' button. On the right side, there is a menu with options: 'Access Dataset', 'Publish Dataset', 'Edit Dataset', 'Contact Owner', and 'Share'. A modal window titled 'Unpublished Dataset Private URL' is open, showing a message: 'Private URL has not been created.' and buttons for 'Create Private URL' and 'Close'. A red box highlights the 'Edit Dataset' button and the modal window.

陽明交大
NYCU Dataverse

Add Data Search User Guide About Support English 王 慧恆

NYCU Dataverse

NYCU Dataverse >

Success! – The metadata for this dataset has been updated. If it's ready for sharing, please **publish** it.

I love research data management service

Draft Unpublished

零衣, 王, 2023, "I love research data management service", https://doi.org/10.57770/3TWCPQ, NYCU Dataverse, DRAFT VERSION

Cite Dataset Learn about Data Citation Standards.

Access Dataset

Publish Dataset

Edit Dataset

Contact Owner Share

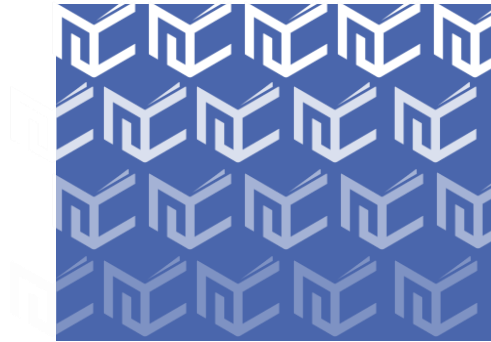
Unpublished Dataset Private URL

Use a Private URL to allow those without Dataverse accounts to access your unpublished dataset. For more information about the Private URL feature, please refer to the [User Guide](#).

Private URL has not been created.

Create Private URL Close

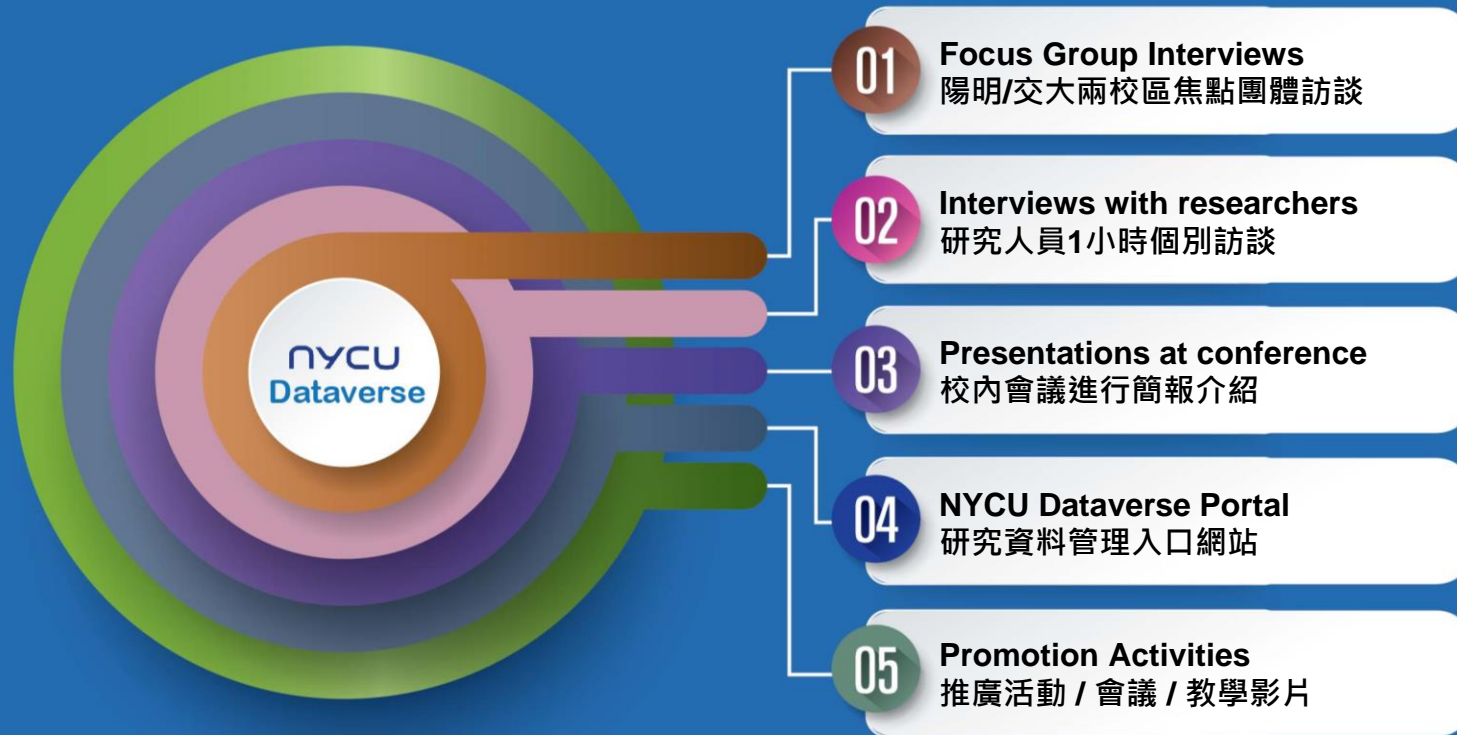
- Dataset發布前建立Private URL。
- 複製Private URL分享給希望有權查看或下載Dataset或File的人，亦可取消。



04

NYCU Dataverse 服務與推廣

1st year of Dataverse promotion - 2022



Focus Group Interviews 焦點團體訪談

周倩

Chien Chou

教育所，副校長

李大嵩

Ta-Sung Lee

電信工程，副校長

陳震寰

Chen-Huan Chen

心臟科，院長

黃柏勳

Po-Hsun Huang

重症內科，教授

劉柏村

Po-Tsun Liu

光電工程，研發長

Chiaotung Campus

Yangming Campus

蔡金吾

Jin-Wu Tsai,

腦科，研發長



Libraries' concerns / 圖書館關心研究人員的共識

認識程度

對於研究資料與管理服務的認識為何

上傳經驗

如有公開研究資料的經驗其因素為何

資料管理

如何管理研究資料、使用工具及想法

上傳意願

是否願上傳至本校Dataverse及想法

主題特質

在不同學科中研究資料的樣態和特性

建議期許

對於圖書館推動研究資料管理服務支持度

Researchers' concerns / 研究人員的期待與想像

儲存空間

平台應有大儲存空間並
接受學科領域格式

法令規定

資助者、研究倫理、
智財權、合約、保密

長期安全

舉例長期追蹤的研究
很需要研究資料平台

使用教學

系統操作及推廣說明

各種工具

各種應用工具以及
深度介接期待輔助

團隊運作

院系所或實驗室使用

IRB相關研究資料上傳規範

1. 進行知情同意書時便告知會存到研究資料平台

人體研究法第14條：取得12條知情同意前，告知研究材料之保存期限及運用規劃。

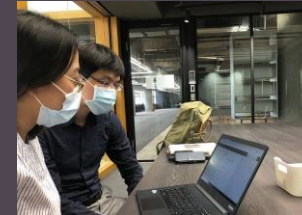
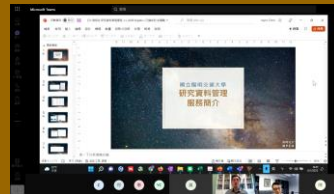
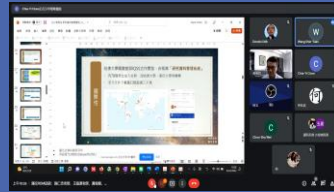
2. 研究材料已去連結

人體研究法第19條：

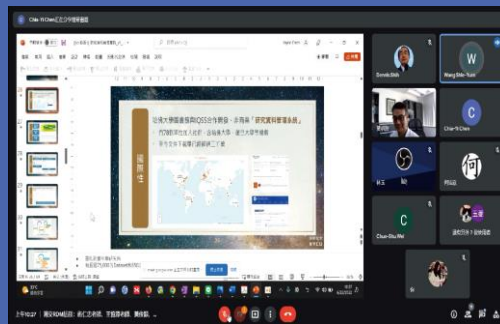
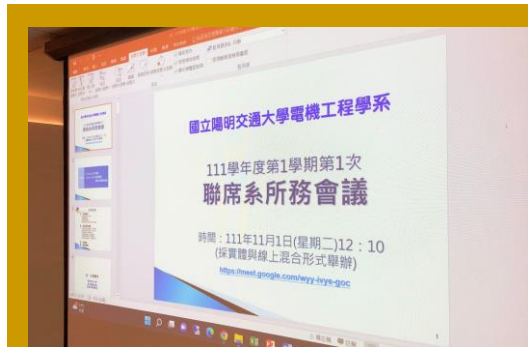
研究材料於研究結束或第14條第1項第8款所定之保存期限屆至後，應即銷毀。

但經當事人同意，或已去連結者，不在此限。

Subject librarian's service – Online and in-person Interviews and Follow-through



Subject librarian's service – Presentations at academic conference



陽明交大 NYCU Dataverse

共享·集中·保存·引用與協作 學術研究資料·促進國際研究人員專業·提高學術的知名度·獲得學術地位·及可滿足資助者或期刊的要求

參與國際社群 ● 與Harvard Dataverse合作
為全球大學圖書館提供資料科學研究平台與服務之新標準並提供即時Harvard MIT Data Center 學術資訊服務

採用國際標準 ● 與DOI合作
國際資訊合作標準·從圖書館員與研究人員的Metadata元數據·至全球學術社群·全面配合全球學術

Dataverse 4.8.4 Release
Acids Support for Science

WEB OF SCIENCE

DataCite's VALUE

研究人員優勢

- ◎ 研究資料數位式
- ◎ 增加研究資料可發現性與可見性
- ◎ 進行GitHub等平台最佳管理
- ◎ 數位研究資料

學校亮點

- ◎ 增加學術單位研究計畫
- ◎ 增加研究計畫可發現性
- ◎ 學術研究計畫平台最佳管理

資料存取限制	資料長期保存	上傳與修改	Dataverse 服務
<ul style="list-style-type: none"> ◎ 作業系統存取限制 ◎ 檔案存取權限制 ◎ 本地與網際存取權 ◎ 數字簽名與防偽 	<ul style="list-style-type: none"> ◎ 提供Data 儲存空間 ◎ 長期保存與長期存取 ◎ 其他開放存取服務 	<ul style="list-style-type: none"> ◎ Log in(學校帳號) ◎ Add Data ◎ Edit Dataset 	

<h4 style="margin: 0;">資料格式</h4> <ul style="list-style-type: none"> ◎ PDF ◎ STATA ◎ Text ◎ Excel ◎ CSV ◎ xml ◎ JSON ◎ zip ◎ Audio files ◎ Compressed files 	<h4 style="margin: 0;">Dataset 格式</h4> <ul style="list-style-type: none"> ◎ Dublin Core ◎ DOI ◎ HTML Codebook ◎ DataCite 4 ◎ SDI ◎ GML ◎ Open Access 開放取用 ◎ Zenodo ◎ Schema.org JSON-LD 	<h4 style="margin: 0;">存取限制</h4> <ul style="list-style-type: none"> ◎ 限制存取 ◎ 限制存取時間 ◎ 限制存取地點 ◎ 限制存取設備 ◎ 限制存取IP ◎ 限制存取時間 ◎ 限制存取地點 ◎ 限制存取設備 ◎ 限制存取IP
--	--	---

NYCU Dataverse 上傳及資訊入口 SOP 請洽 圖書館 YouTube

(02) 29267000/67333 主聯絡員
 (03) 5712121/31644 邱玉蓉小姐
 (03) 5712121/20956 何佳玲小姐
 (03) 5712121/31885 蔡景暉小姐
 Email: divext@lib.nycu.edu.tw

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大學圖書館創新服務新紀元

從LSP建置的開放性應用 到研究資料管理

A New Horizon for the Digital Academic Librarianship

The Path from the Library Services Platform Implementation to Research Data Management

雲端技術成熟，提供大學圖書館建置其原生平台、電子館藏及數位館藏的整合平台，也發展了開放存取與協同合作的服務效益；而研究資料管理（Research data management）在學術傳統及國際學術研究傳統推動轉型，除了透過系統管理、共享、保存、引用、探採和析研究資料，協助和支援學者的學術研究過程，也促進研究資料再應用的重要性，是未來學術研究之重要趨勢。本研究結合特約國際學者和專家，從開放架構的圖資館服務平台、開放式的服務模式，及研究資料整合與學術產能等面向，與您分享國際最新到書服務的最新趨勢、技術與機會與挑戰。

陽明交大圖書館推動RDM服務之進路

講者 國立陽明交通大學圖書館 王慧雅館長

11/10/28 (五) 12:10-13:20

引言人：中華圖書資訊館聯合會 黃明麗 理事

講者履歷
 目前為陽明交大圖書館館長兼館務處處長，主要統籌圖書館館務運作、學術諮詢與館、電子資源館及學術服務業務。

曾任：

- ◎ 特約：推廣服務及圖書資訊館利用教育訓練。

圖書館員培育計畫課程：陽明交大圖書館推動RDM服務之進路 (11/10/28)



Library Conference and Workshops

YouTube short introductory videos

The screenshot shows a YouTube channel page for 'Data + Verse'. The channel has 380 views and is 1 year old. The page displays 10 video thumbnails with their titles, view counts, and upload dates. The videos are organized into two rows of five. The first row contains five videos related to NYCU Dataverse, and the second row contains five videos related to the National Sun Yat-sen University Library's '2022 Library New Life Activities'.

Video Title	View Count	Upload Date
20220829 研究資料管理服務簡介	168次	1年前
NYCU Dataverse 分配角色與權限	63次	1年前
NYCU Dataverse : Dataset檔案存取功能設定	106次	1年前
NYCU Dataverse : 如何取得DOI	140次	1年前
NYCU Dataverse研究資料上傳說明	374次	1年前
課程閱讀清單 (Course Reading List) 功能與優勢介紹	94次	9個月前
資料蒐集的方法_生物、醫學 2022	271次	1年前
資料蒐集的方法_人社、客院、管理、科法 2022	380次	1年前
資料蒐集的方法_ 電機、光電、資訊、理工 2022	247次	1年前
2022 圖書館新生活動_研究攻略營_論文寫作實戰技巧_顏安孜	639次	1年前

2nd year of Dataverse promotion - 2023



01

Presentations at conference

校內會議進行簡報介紹

02

Interviews with researchers

研究人員1小時個別訪談

03

Promotion Activities

推廣活動 / 會議 / 教學影片

04

NYCU 研究資料管理原則

05

Use Courses Reading List

結合館藏探索及課程閱讀清單

1127 NYCU RDM Workshop

揭開研究資料管理服務之旅：

Dataverse中國書館角色與使用者需求探索起步

Embarking on the Journey of Research Data Management Services: Exploring Library Roles and User Needs in Dataverse

會議簡介

研究資料不論是在醫學、電資、社科等研究領域，都是推動科學和知識的重要元素。而有效的研究資料管理 (RDM) 是確保這些資料持續且高利用度的關鍵。

本會議將探討如何運用Dataverse平台來實現RDM的目標，從Dataverse的建置者與使用者兩個角度進行分享，無論您是學術研究人員、圖書館專業人士，還是機構管理者，這個研討會都將為您提供有價值的見解。

Introduction

Research data, whether in the fields of medicine, information technology, social sciences, or any other research domain, is a crucial element in advancing science and knowledge. Effective research data management (RDM) is the key to ensuring the sustainable and efficient utilization of these data.

This conference will explore how to achieve the goals of RDM using the Dataverse platform, providing insights from both the builders and users of Dataverse. Whether you are an academic researcher, a library professional, or an institutional manager, this seminar will offer valuable perspectives for you.

Participants in the workshop include Daniel Su, 中山醫大_陳玉娟, 中山醫學大學附設..., 中山醫學大學附設..., 中山醫學大學劉文文, 中央大學圖書館_李珺, 中臺圖書館, and 仁德醫專_賴芊芊.

國立陽明交通大學圖書館

National Yang Ming Chiao Tung University Library

Dataverse

The NYCU Dataverse is a supportive platform for post-graduate researchers and their research data. It provides a secure, accessible, and easy-to-use environment for sharing research data, ensuring data integrity and long-term preservation.

- 開放儲存各種格式**
如文件、圖表、聲音、影像
Higher-level data formats are supported, including images, audio, video, spreadsheets, and more, increasing research results.
- 符合期刊**
數據政策
Full-fledged policy requirements.
- 學術社群對研究數據管理的研究資料管理服務**
The academic community can easily discover and reuse research data and gain greater credibility, promoting collaboration.
- 支援研究人員自行管理**
研究資料的使用存取權
A support researcher in defining user access levels and permissions for research data and getting up long-term usage rights, preserving research data and backup policies.

圖書資訊學系 圖書館



Publish Your Research Data

2023 There will be a stall at the database carnival!

- Nov 29 CT Campus Library - Hall - 2nd Floor
- Dec 01 YM Campus Library - Multifunctional Commons - 3rd Floor

LUCK DRAW EVENT

Library Conference and Workshops

NYCU Dataverse 新功能介紹短片

Dataset中可能含有不同類型的檔案,如Excel、圖檔、音檔等NYCU**Dataverse**整合「**FilePreviewers**」工具,可以快速查看檔案內容,無需下載或打開檔案,而提高效率。

DataExplorer列出表格數據中的變數,並允許使用者探索繪製圖表和進行分析,讓數據能有效被他人再利用。



Widgets小工具,可讓研究者於網站上顯示**Dataverse**,讓研究者的研究資料能顯示在更多地方,進而增進學術曝光。

當填寫完**Dataset**相關資料欄位後,進行研究資料上傳時,除了自本機上傳,也可藉由串聯到個人的**Dropbox**空間的功能,可直接上傳個人**Dropbox**內的檔案。

新訂陽明交大研究資料管理規則

本校研究資料管理原則

- 一、 國立陽明交通大學（以下簡稱本校）為完整保存研究紀錄之完整性，以及確保研究資料與結果之公開與共享，特訂定本原則。
- 二、 本原則適用於本校編制內外之各級人員及學生，及為進行學術研究與本校簽署產學合作約定者，但兼任人員未實質參與本校研究計畫者，不在此限。
- 三、 本原則用語，定義如下：
(一) 研究資料：泛指研究過程中所產出之任何形式之資料，包含但不限於文學、實驗數據、數據、圖（影）像、圖表及其他各種媒介形式的原始資料。
(二) 研究資料管理：未去連結之原始資料應以系統性方式組織、紀錄、儲存、維護，並訂定保存期限，及屆滿後之刪除銷毀程序。對已去連結之研究資料，亦應依上述方式為之，但得以永久保存，並於必要時，該研究資料得以有效率的存取、檢閱、再利用，以及可再現研究過程及結果。
(三) 去連結：涉及個人資料、資訊之生物檢體、資料，應以編碼或其他方式，使其資料永久無法以任何方式連結、比對。
- 四、 研究計畫之執行，應透過學校行政作業流程並具簽定合約，始得利用校內設備及人力進行研究，合約中應載明研發成果之歸屬、管理及運用，包括智慧財產權歸屬、申請及確保國內外權利、授權、讓與、收益、經銷及其相關資訊之揭露、委任、借託、訴訟或其他一切與管理或運用研發成果有關之行為，前項合約內容，由本校相關單位訂定之。
- 五、 本校應依以下原則辦理研究資料管理：
(一) 為提供研究人員進行研發成果之維護與記錄管理，責成相關單位落實與維護有關承諾。
(二) 本校將不定期舉辦研究資料管理教育訓練，該教育訓練應列為學術倫理時數。
- 六、 本校計畫主持人及參與研究人員，應依以下原則進行研究資料管理：
(一) 於研究執行前與過程中，計畫主持人應盡監督之責，訂立實驗室規範及研究資料管理規則，確保所屬研究人員清楚理解相關規範前，責成研究人員簽署規範，並依規則妥善管理各階段之進度及成果，以確保研究資料之完整性與品質，參與研究人員亦應理解實驗室規範及相關法令規章，並積極履行並維護自身權責。
(二) 研究性質涉及人體研究法、動物保護法或其他法規之規定者，應遵守本校各專責單位、研究經費補助單位（或經費資助者）及其他監製機關(構)訂定之法令規章、協議、監管及審核條款。
前項第一款之實驗室規範及研究資料管理規則，包括但不限研究紀錄方式（研究方法、過程與原始數據）、研究材料之使用、保存方式、保存期限、保存位置、研發成果去連結、未去連結之研究資料銷毀程序，以及異常事件標準處理流程。
- 七、 本原則經本校行政會議通過後實施，修正時亦同。

《國立陽明交通大學研究資料管理原則》修訂歷程

- 112年7月26日 本校111學年度第9次行政會議通過



國立陽明交通大學圖書館

National Yang Ming Chiao Tung University Library



國立陽明交通大學學術倫理與研究誠信辦公室
Office of Academic Ethics and Research Integrity

國立陽明交通大學研究發展處

National Yang Ming Chiao Tung University
Office of Research and Development

連結：<https://www.lib.nycu.edu.tw/custom?cid=563>

整合 Dataverse Dataset 與館藏探索以及數位教學

The screenshot shows the NCU Library Search interface. The search bar contains the text "Causal decomposition in the mutual causation system". The results are displayed in a list format. The first result is a journal article titled "Causal decomposition in the mutual causation system" by Yang, Albert C.; Peng, Chung-Kang; Huang, Norden E. The second result is a dataset titled "Replication Data for: Causal decomposition in the mutual causation system" by Albert C. Yang; Chung-Kang Peng; Norden E. Huang; Albert C. Yang. The third result is another journal article titled "Causal Decomposition in the Mutual Causation System" by Yang, Albert C.; Huang, Norden E.; Chung-Kang, Peng.

The screenshot shows the Alma Production interface. The page is titled "Edit Reading List" and displays information for a reading list with ID "1112.131018 智慧醫療與應用實例 Intelligent Medicine and Hands-on Applications". The "Reading List Information" section includes the following details:

- Code: 0.5151858712860142
- Name: 1112.131018智慧醫療與應用實例 Intelligent Medicine anc
- Due Back Date: 2023/09/12
- Current Request for Review: -
- Review Requester: -
- Creative Commons License: [Dropdown menu]
- Mark as sample list:
- Owners: 蔡雯翔; 楊智傑
- Pages: 14



國立陽明交通大學圖書館
National Yang Ming Chiao Tung University Library

持續收集成功合作案例



NYCU Dataverse fulfil Journals data access

for example...



林奇宏 校長
微生物及免疫學研究所 教授



黃明居 館長
運輸與物流管理學系 教授



蔡金吾 研發長
醫學院腦科學研究所



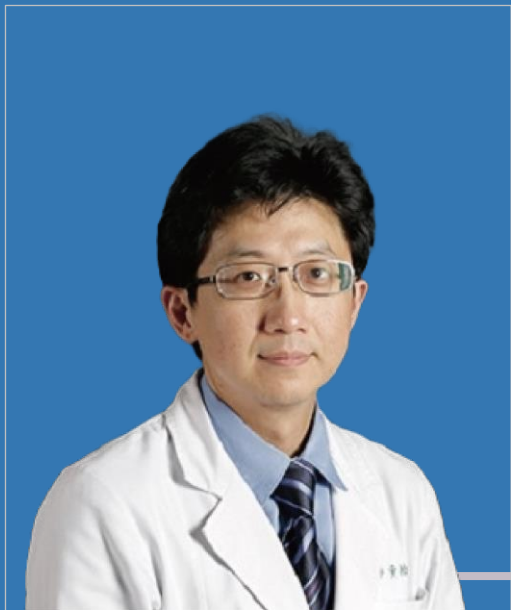
陳潤秋教授
生物醫學影像暨放射科學系



曾意儒 教授
資工學系



翁孟嘉教授
木土系



黃柏勳教授小檔案

陽明交大臨床醫學研究所 專任教授
陽明交大心臟血管疾病研究中心 主任
臺北榮總重症醫學部 重症加護內科主任

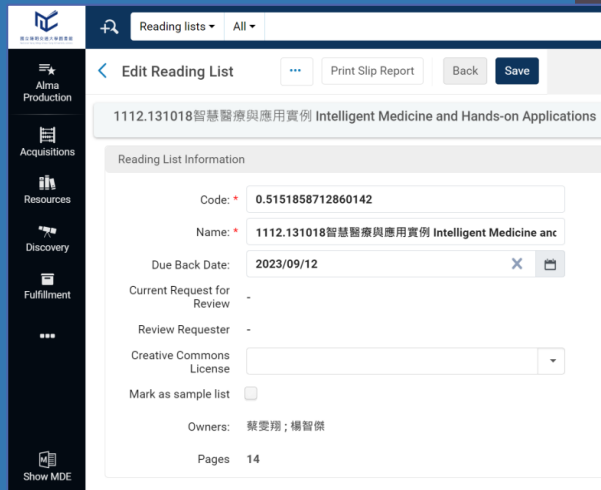
- 臺北榮總醫院重症加護內科主任，黃柏勳教授，為進行關於高血壓患者腎功能相關的研究，招募100名高血壓患者，並且在符合研究倫理委員會的規定下收集患者的研究資料。
- 分析這些研究資料後，研究團隊發覺伴隨血管修復能力降低的內皮損傷，與高血壓患者腎功能進一步惡化有關，並以此為主題發表了文獻。
- 奠基這篇高血壓腎功能文獻的研究資料並沒有從此束之高閣。
- 2020年，來自尼德蘭馬斯垂克大學的學者連絡上黃柏勳教授，表明這份研究資料可以協助他們比較高血壓相關的動物模式，希望可以了解更多關於研究資料的內容。
- 因此，黃柏勳教授提供更細節的研究資料給尼德蘭馬大學者，最終分析出年齡相關高血壓內型的因果機制，亦作為偕同作者發表文獻，達成台灣與尼德蘭跨國合作。



楊智傑教授小檔案

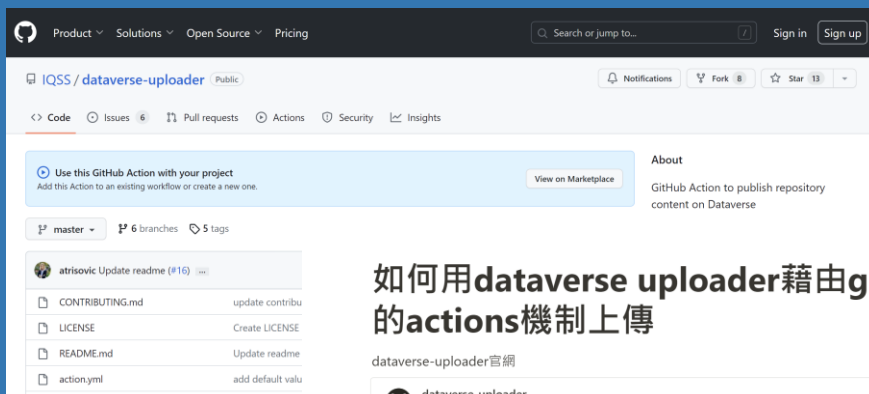
陽明交大學 腦科學研究所 教授兼所長
陽明交大學 醫學系 副主任
臺北榮總 醫學研究部 主治醫師
臺北榮總 人工智慧發展中心 副主任

- 楊智傑教授在「智慧醫療與應用實例」課程中，學生運用研究資料平台取得研究資料，擬定主題進行再運用，參與課程內黑克松；另整合已有的研究資料集，於學校數位教學平台-本館課程閱讀清單服務，多方面培養學生研究資料再運用的技能。
- 學習研究資料使用是研究歷程中不可或缺的一環，運用 NYCU Dataverse，實踐再運用教學！





曾意儒教授小檔案
陽明交大 資訊工程學系 副教授



如何用dataverse uploader藉由github的actions機制上傳

dataverse-uploader官網



點選三角形，顯示更多的內容

- ▶ 步驟0：dataverse上collection設定 (非必要)
- ▶ 步驟1：建立資料集
- ▶ 步驟2：設定該存儲庫的密碼
- ▶ 步驟3：在github repository存儲庫產生workflow.yml及執行

- 資料管理對資訊領域也很重要。
- 運用Dataverse Uploader，Github同步投稿到Dataverse。



【2023陽明交大圖書館閱讀月講座】
青春的多重宇宙--陳牧宏醫師談青少年精神醫療

Replication Data for: Functional dysconnectivity of cerebellum and attention networks in emotional dysregulation shared between attention deficit hyperactivity disorder and major depressive disorder: a multimodal imaging study

Nov 24, 2022

Shun-Chin J Wu; Ju-Wei Hsu; Kai-Lin Huang; Ya-Mei Bai; Pei-Chi Tu, 2022, "Replication Data for: Functional dysconnectivity of cerebellum and attention networks in emotional dysregulation shared between attention deficit hyperactivity disorder and major depressive disorder: a multimodal imaging study", <https://doi.org/10.57770/JWEKFL>, NYCU Dataverse, V1, UNF:6:nHsjYsKtqQUbUBmF6VUQ== [fileUNF]

Background: Emotional dysregulation (ED) is a common characteristic of both attention deficit hyperactivity disorder (ADHD) and major depressive disorder (MDD), especially in adolescents. However, whether ADHD and MDD may share the specific ED-related neural networks remains unkn...
Contact Name: **Mu-Hong Chen**

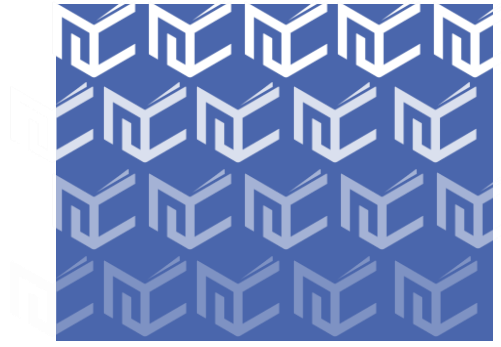
Replication Data for: Appetite hormone dysregulation, body mass index, and emotional dysregulation in nonobese adolescents with first-episode schizophrenia, bipolar disorder, and major depressive disorder: a cross-sectional association study

Apr 7, 2023

Ju-Wei Hsu; Li-Chi Chen; Ya-Mei Bai; Kai-Lin Huang; Shih-Jen Tsai; Tung-Ping Su; Mu-Hong Chen, 2023, "Replication Data for: Appetite hormone dysregulation, body mass index, and emotional dysregulation in nonobese adolescents with first-episode schizophrenia, bipolar disorder, and major depressive disorder: a cross-sectional association study", <https://doi.org/10.57770/SYIEHH>, NYCU Dataverse, V1, UNF:6:3sHBhLxDpqy4o4tI1ghhCA== [fileUNF]

Abstract Background Evidence has suggested that emotional dysregulation is a transdiagnostic feature in schizophrenia and major affective disorders. However, the relationship between emotional dysregulation and appetite hormone disturbance remains unknown in nonobese adolescents...
Author Name: **Mu-Hong Chen**
Contact Name: **Mu-Hong Chen**

- 為鼓勵研究人員多以開放取用Open Access方式發表學術研究成果，促進科研成果最大限度發揮影響力，提升作者及本校的研究國際能見度，因此本館於合校後，積極爭取OA服務方案，減輕老師們投稿的文章處理費 (Article Processing Charge，簡稱APC) 負擔。
- 陳牧宏教授以通訊作者持續於Cambridge期刊投稿，運用OA方案服務及典藏研究資料於 NYCU Dataverse，讓研究資料可重用，多重實踐開放科學！



05

理念與未來

理念

June 2023

Research Intelligence

Research Data Management

White paper

Tracking institutional research data

How universities can nurture a culture of data sharing



Elsevier's Research Intelligence toolkit equips researchers, faculty and research administrative professionals to address their institutions' most pressing challenges at every stage of the research lifecycle. Through high-quality, structured, interoperable data, advanced analytics and various indicators and metrics, Research Intelligence solutions give institutions the insights they need to elevate their research excellence.

The tracking of research data is underpinned by emerging practices

The scholarly communication infrastructure that can inform the tracking of research data is highly distributed. Data may be found in a complex network of institutional, generalist and disciplinary repositories, but also in other forms such as individual websites that can only be discovered via tailored approaches due to limited or lack of metadata or machine-readable information. The University of Groningen has described the use of software solutions to identify institutionally affiliated research data as “[systematically collecting needles from the haystack](#).” In their case, the use of [Data Monitor](#) helped cut the time spent validating data metadata from 20–30 to 5–10 minutes and allowed the University to grow its list of validated datasets from about 600 per year (gathered manually) to almost 4,000 per year (gathered via software and then validated).

Institutions, researchers, publishers and funders need to continue working together to foster improvements in individual behaviors, which will eventually lead to an enhanced ability to track research data. The above-mentioned FAIR principles offer a helpful focal point that all stakeholders can consider, from the individual researcher all the way through to international digital infrastructures. For example, those involved in data production should ensure that they deposit their data in an appropriate repository, which is in turn expected to accept (and, in some cases, require) complete, accurate and meaningful metadata and controlled vocabularies, as well as to create and manage a persistent identifier.

The use of persistent identifiers – whether digital object identifiers (DOIs), permalinks or others – is key in enabling institutions to identify data shared by their researchers and improving findability more broadly.

“In many cases, information about affiliation is missing from metadata. And, when it is there, the persistent identifier of the organization is only rarely available. Persistent identifiers could help overcome some difficulties with research data tracking, but they're not widespread enough today.”

– Paolo Manghi, OpenAIRE

These don't only include DOIs or other persistent identifiers for datasets, but also Open Researcher and Contributor ID (ORCID) and Research Organisation Registry ID (ROID) as a minimum. Other forms of identifiers are also emerging, for example Research Activity Identifiers (RAIDs) for projects and Crossref grant DOIs.



Furthermore, organizations responsible for repository management can ensure data is curated and preserved, that metadata is surfaced appropriately and that the repository is accessible and optimized for discoverability.

“We gather all successful research data sharing stories on the NYCUC Dataverse knowledge website, aiming to increase reuse and enhance international cooperation.”

– Ming-Jiu Hwang, National Yang-Ming Chiao Tung University

Users are also becoming more proactive in their data consumption, including authors themselves. Today, data users are more frequently ensuring that they accurately cite and link to third-party data, and may incorporate linking to data assets in narrative CVs.

However, data citation practices are far from mature. For example, publications may include data citations as part of the full text, in dedicated data availability statements or not at all. This kind of fragmentation is partly responsible for the difficulties in tracking research data and sometimes leads to the need to disambiguate, deduplicate or further process the information that can be harvested from the scholarly infrastructure.

“我們在 NYCUC Dataverse 知識網站上收集了所有的成功的研究資料共享故事，增加重複使用並加強國際合作。”

– Ming-Jiu Hwang,
National Yang-Ming
Chiao Tung University

“在許多情況下，metadata 缺少有關隸屬關係的資訊。而且即使存在，永久識別碼也很少可用。永久識別碼可幫助克服研究數據追蹤的困難，但目前它們還不夠廣泛。”

– Paolo Manghi, OpenAIRE

<https://view.highspot.com/viewer/64944cab6a9de707cf589675>

結論

- **NYCU Dataverse** 可以提供研究人員研究資料的共享、保存、引用和探索。
- 滿足發表要求、提高引用與國際合作，是驅動因素，**安全和Fair Data**是驅動程式。
- 圖書館在研究資料管理服務上，可融入研究生命週期，提供支援環境。
- 圖書館服務角色上，需要具備與時俱進的認知和技能，關注研究人員新需求。
- 可以提供適當的誘因，例如由館員協助上傳 **datasets** 並引導 **data sharing**。
- 與各學科領域研究人員合作，運用其成功故事建立可供其他人參考的具體案例。
- 鼓勵畢業離校或離開實驗室的研究生，上傳 **datasets** 至 **NYCU Dataverse**。
- 遵循 “**Data should be as open as possible and as closed as necessary**“ 原則。
- 承諾協助國際合作、卓越研究、永續發展和人類社會的進步。

竭誠敬邀參與 2024/2/1-2/2研討會

研究資料管理智慧之路： 引領資料管理新方向

Research Data Roadmap: Guiding Wisdom in the Management Mode

報名網址：
<https://event.flysheet.com.tw/event/detail/list/80/>



國立陽明交通大學

研究資料管理智慧之路： 引領資料管理新方向

Research Data Roadmap: Guiding Wisdom in the Management Mode

[Day 1] February 01, 2024 (Thu.)

陽明交通大學 新竹光復校區—圖書館B8國際會議廳
(300 新竹市大學路1001號)

IL International Conference Hall, Library, National Yang Ming Chiao Tung University - Guangfu Campus
(No. 300, Daxue Rd., East Dist., Hsinchu City 300, Taiwan)

[Day 2] February 02, 2024 (Fri.)

陽明交通大學 台北復興校區—守仁樓廣才廳
(陽台北市北區陽明區立農二街155號)

Y-Shou-Ren Hall Building, National Yang Ming Chiao Tung University - Yang-Ming Campus
(No.155, Sec.2, Liangshou Street, Taipei, 102 Taiwan)

研討會報名請點我 [Click to register](#)

Introduction

本研討會旨在探討研究資料管理的重要性，我們將探討研究資料管理的挑戰、分享成功案例和解決方案，共同引領研究資料管理邁向更前瞻性和有效性的新境界。透過國內外學者與實務經驗的分享，期望能給大家研究資料管理的新面向，並促進整體學術研究的發展。

This seminar aims to explore the significance of research data management. We will delve into the challenges of research data management, share successful case studies, and propose solutions, collectively propelling research data management towards a more forward-thinking and effective realm. Through insights from both domestic and international scholars and industry practitioners, we aim to bring forth new perspectives on research data management and foster the advancement of academic research as a whole.

Speakers



Stefano Maria Iacusi
Director of Data Science and Product Research, Sense Research Institute



Sonia Barbosa
Manager of Data Curators, Harvard Dataverse



Prof. Chien-Chou
Executive Vice President of National Yang-Ming Chiao Tung University



Prof. Oscar Kuang-Sheng Lee
Vice Superintendent of China Medical University Hospital Chief Professor of Traditional Chinese Medicine, National Yang-Ming Chiao Tung University



Prof. Yang Lou
Assistant Professor of Department of Graduate Institute, National Yang-Ming Chiao Tung University



Prof. Albert Chih-Chieh Yang
Professor of Institute of Data Science, National Yang-Ming Chiao Tung University



Prof. Ting-Ruey Chuang
Associate Research Fellow of Center for GIS, ECHS, Academia Sinica



Prof. Chih-Shen Tom
Associate Professor of Department of Bioinformatics and Biostatistics, National Yang-Ming Chiao Tung University



Schedule

February 01, 2024 (Thu.) 09:30-17:00 📍 光復校區—圖書館B8國際會議廳

09:00 - 09:30	個別 Registration	
09:30 - 09:50	開幕致詞 Opening	<p>陽明交通大學 圖書館B8國際會議廳 President of National Yang Ming Chiao Tung University</p>
— Session 1 : Entering the World of RDM: Why is Dataset/RDM so Crucial? —		
09:50 - 10:30	The principles of data sharing and what this means for generalist repositories – AI integration	<p>Stefano Maria Iacusi Director of Data Science and Product Research, Sense Research Institute</p>
10:30 - 11:10	The user experience in data sharing and utilization of the Dataverse-supported repository	<p>Sonia Barbosa Manager of Data Curators, Harvard Dataverse</p>
11:10 - 11:20	茶歇 Break	
11:20 - 12:00	最近FAIR資料庫的開放存取—研究資料寄存(depositor)的發展 The Development of depositor – An Open Repository for FAIR Data	<p>陽明交通大學 圖書館B8國際會議廳 Associate Research Fellow of Center for GIS, ECHS, Academia Sinica</p>
12:00 - 03:30	午餐 Lunch	
Session 2 : Advantages of Dataverse in Research Data Management: Why Choose the Dataverse?		
13:30 - 15:30	From Chaos to Clarity: Curating Data in a Dataverse Platform	<p>Sonia Barbosa Manager of Data Curators, Harvard Dataverse</p>
15:30 - 15:45	茶歇 Break	
15:45 - 16:15	研究資料的尋找與開放存取經驗分享 Exploring Research Data: Strategies for Citation and Sharing Publication Experiences	<p>陽明交通大學 圖書館B8國際會議廳 Associate Professor of Department of Electronic and Electrical Engineering, National Yang-Ming Chiao Tung University</p>
16:15 - 16:45	Network Science Thinking and Research Data Management: Unveiling the Digital Opportunities Shaping Academic Excellence	<p>陽明交通大學 圖書館B8國際會議廳 Assistant Professor of Department of Computer Science, National Yang-Ming Chiao Tung University</p>
16:45 - 17:00	綜合討論與閉幕 Discussion & Concluding Session	

February 02, 2024 (Fri.) 09:30-12:30 📍 陽明校區—守仁樓廣才廳

09:00 - 09:30	個別 Registration	
09:30 - 09:50	開幕致詞 Opening	<p>陽明交通大學 守仁樓廣才廳 Executive Vice President of National Yang Ming Chiao Tung University</p>
— Session 1 : Differential Privacy and User Experience Sharing		
09:50 - 10:40	Differential privacy principles and our experience at Dataverse	<p>Stefano Maria Iacusi Director of Data Science and Product Research, Sense Research Institute</p>
10:40 - 11:30	人工智慧輔助數位轉態及智慧醫療之應用 Application of Artificial Intelligence in Digital Transformation and Smart Healthcare	<p>陽明交通大學 圖書館B8國際會議廳 Hospital Chair Professor of Institute of Clinical Medicine, National Yang-Ming Chiao Tung University</p>
11:30 - 12:20	隱私強化技術與跨域智慧醫療創新發展 How Privacy-Enhancing Technologies Drive Innovation and Transformation in Healthcare	<p>陽明交通大學 圖書館B8國際會議廳 Professor of Institute of Brain Science, National Yang-Ming Chiao Tung University</p>
12:20 - 12:30	綜合討論與閉幕 Discussion & Concluding Session	



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謝謝聆聽

Thank you for listening