



加速學術服務轉型關鍵徑： RDM X NYCU Dataverse 推廣經驗與聚焦未來

報告人：王慧恆



國立陽明交通大學圖書館

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Overview

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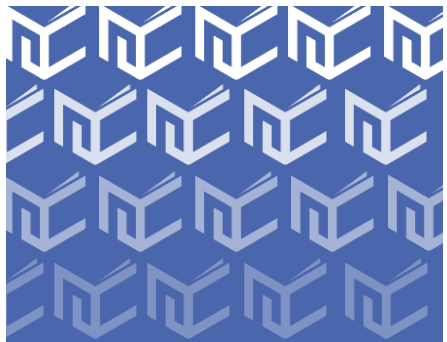
Dataverse平臺：串聯點滴展現資料管理的價值

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01

資料啟動創新： 解鎖研究資料管理的無限可能

資料是什麼？

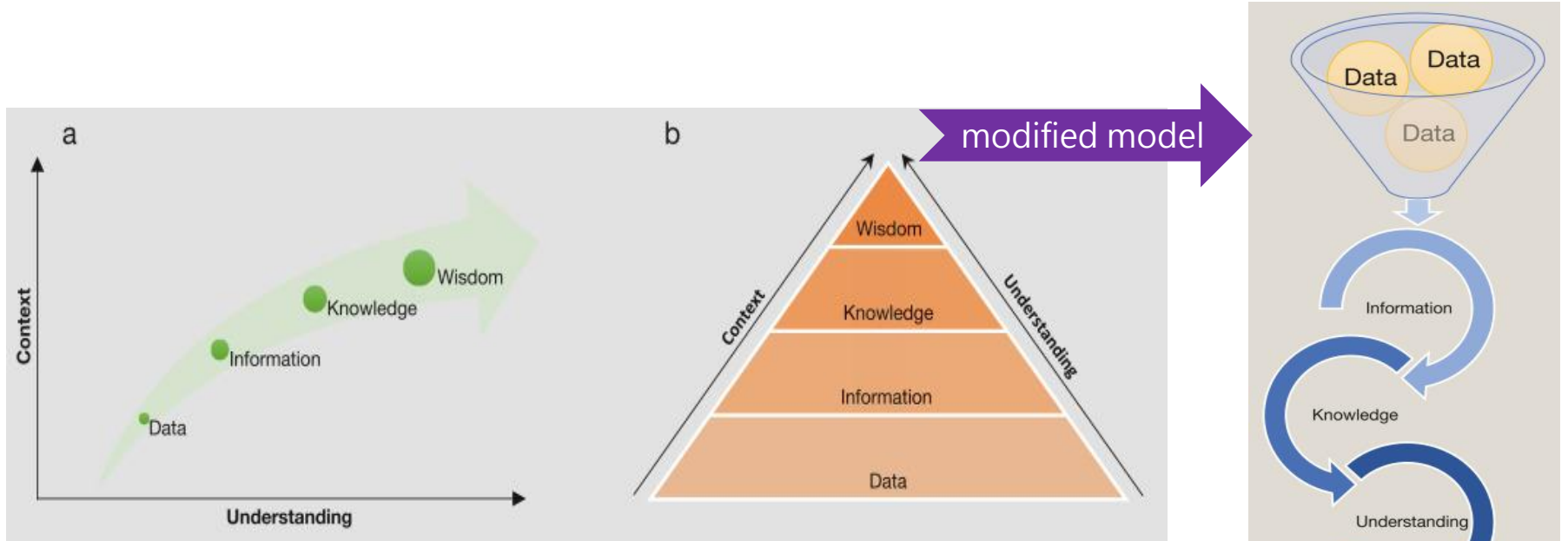
- According to The Oxford Learner's Dictionary (2021) data are “**facts or information**, especially when examined and used to find out things or to make decisions.”
- Glaser noted that “**all is data.**” He noted that data included not just what was said during an interview, for example, but also how it was told and the conditions under which it was reported.

Source: Olson, K. (2021). What are data?. *Qualitative Health Research*, 31(9), 1567-1569.



Source: https://en.wikipedia.org/wiki/Data#/media/File:Data_types_-_en.svg

從資料到智慧的旅程



Source: Jonathan E Dickerson, Data, information, knowledge, wisdom, and understanding, *Anaesthesia & Intensive Care Medicine*, Volume 23, Issue 11, 2022, Pages 737-739

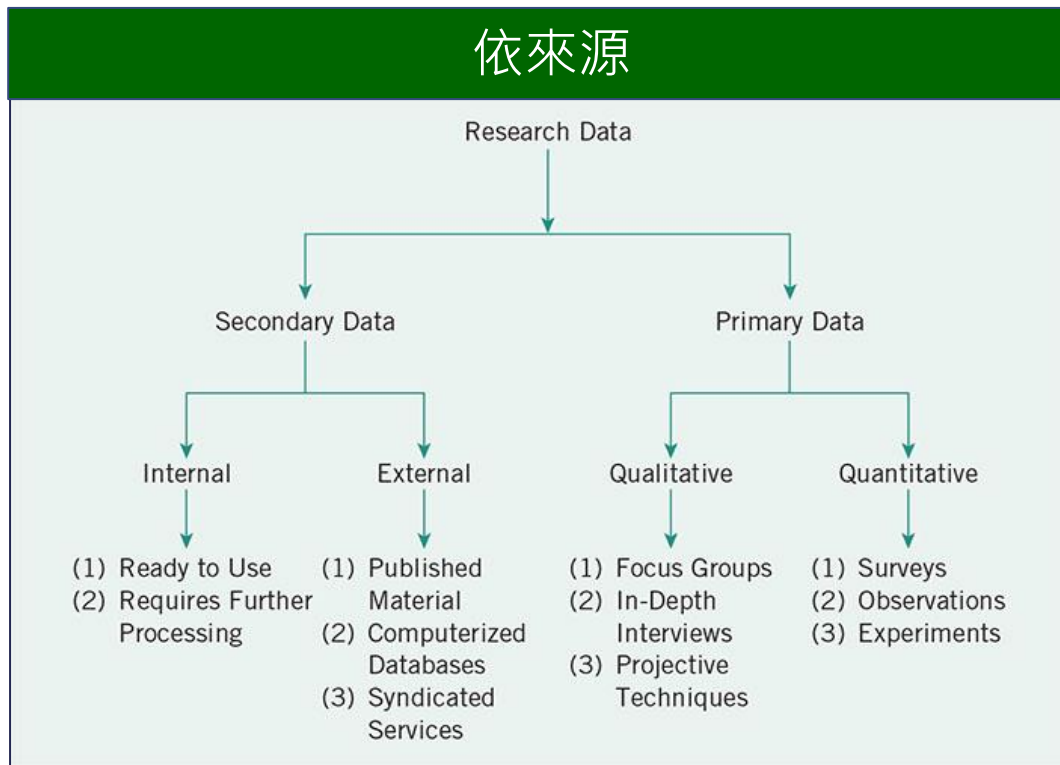
研究資料是什麼？

依格式



Source: <https://communities.springernature.com/documents/infographic-what-are-research-data>

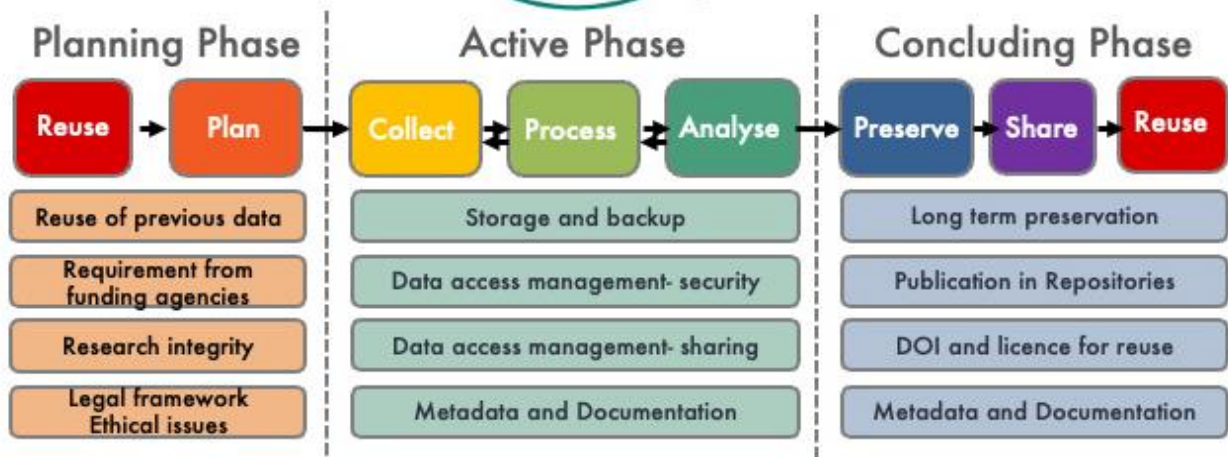
依來源



Source: <https://methods.sagepub.com/book/designing-and-managing-a-research-project-4e/i1199.xml>

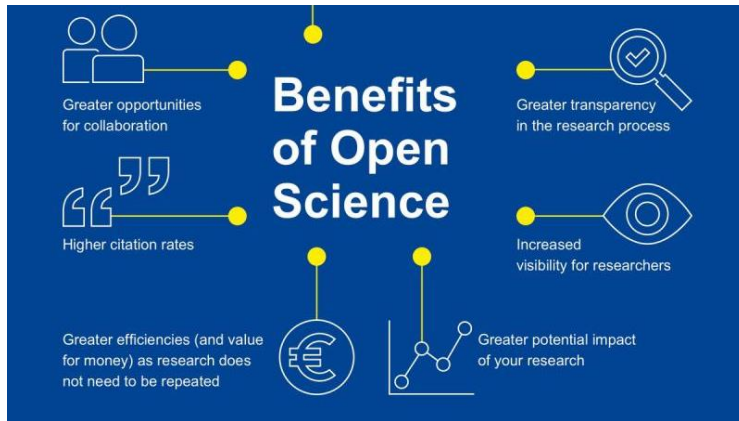
什麼是 研究資料管理服務？

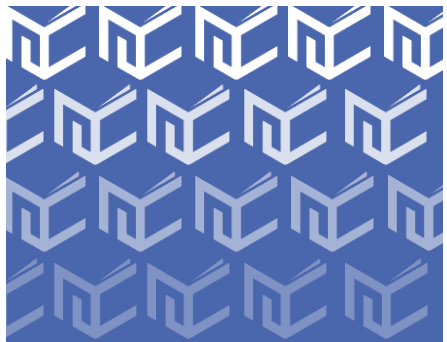
美國研究圖書館聯盟 - SPEC Kit 334 "Research Data Management Services," defined as "providing information, consulting, training or active involvement in data management planning, data management guidance during research (e.g., advice on data storage or file security), research documentation and metadata, research data sharing and curation (selection, preservation, archiving, citation) of completed projects and published data"



Source: <https://www.bium.ch/en/publication-open-access/data-management/>

研究資料管理為什麼重要？





02

驅動以及優勢： 研究資料管理服務的嶄新篇章

越來越多期刊鼓勵作者典藏研究資料供參考

Springer Support · Solution home · Author and Peer Reviewer Support
Research Data Sharing

Publishing data in a repository

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

It is best practice to share your research data in a repository, and an increasing number of journals require you to do so. However, not every journal requires data to be deposited in a repository in order to publish a paper, some allow other methods of sharing.

Related Articles

- Write a data availability statement for a paper
- Find a data repository for my data
- Data my journal expects me to share
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Find Journal Prepare Submission & Peer Review Licensing Open Access Publication Promotion

Wiley's Data Sharing Policies

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

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

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 data repositories.

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](#)
- [Ejshare](#)
- [Harvard Dataverse](#)
- [Mendeley Data](#)
- [Open Science Framework](#)
- [Science Data Bank](#)
- [Zenodo](#)
- [Code Ocean](#)

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

May 6, 2017 / Meg Byrne / News & Policy

```
<OPEN DATA>
```

期刊中的研究資料 Supplementary Information



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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
- Rights and permissions
- About this article
- Comments

Supplementary information

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



Pubmed 中的研究資料 Data behind the article

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)
Free full text ▶

Citations & impact
Data
Similar Articles
Funding

Author information ▶

Tsai MH¹, Cheng HY², Nian FS², Liu C², Chao NH², Chiang KL², 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

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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)

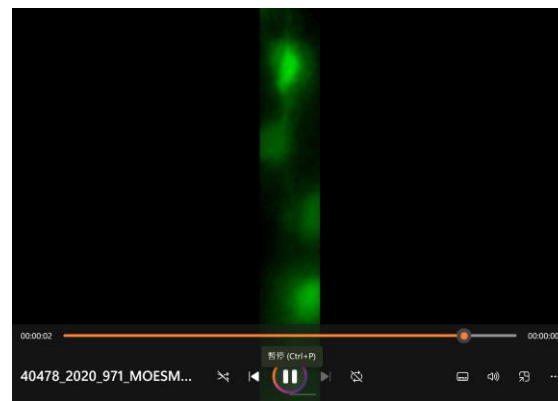
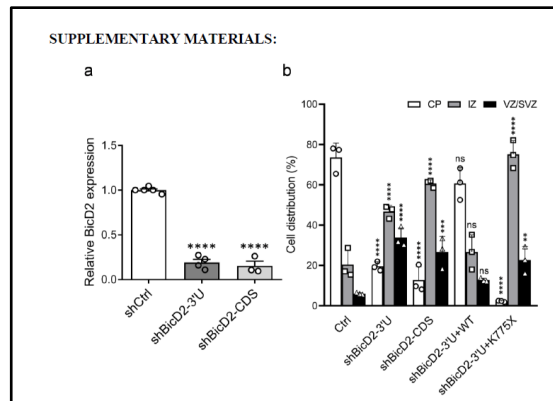
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Publisher ▼ **Proceedings**
Year: 1995 |

Supplemental Items

- Media (1,027)
- Datasets (30)
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- Code (17)

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Journals & Magazines > IEEE Signal Processing Magazine > Volume: 34 Issue: 2

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 to demonstrate the performance of the proposed framework.

Document Sections

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

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

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Files

- Core Files
- metadata 1.21 KB
- environment 74 B
- code 42.2 KB
 - framework_on_hr_frequ... 26.19 KB
 - LICENSE 1.47 KB
 - plot_results.py 6.47 KB
 - process_peaks.py 7.59 KB
 - README.md 403 B
 - run.sh 81 B
- data Manage Datasets 166.37 MB
 - 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() =
```

以NIH資助研究計畫共享政策為例

[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.

NIH GREI (Generalist Repository Ecosystem Initiative)

TOPIC	HARVARD DATAVERSE REPOSITORY	DRYAD	FIGSHARE	MENDELEY DATA	OSF	VIVILI	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.	Vivili 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@vivili.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	1TB	No limit	No limit	No limit	No limit	No limit	No limit
Persistent, Unique Identifier Support	DOI	DOI	DOI	DOI	DOI	DOI	DOI

Generalist Repository Comparison Chart : doi: 10.5281/zenodo.3946719 | Version 3, 12 May 2023



GREI Awardees



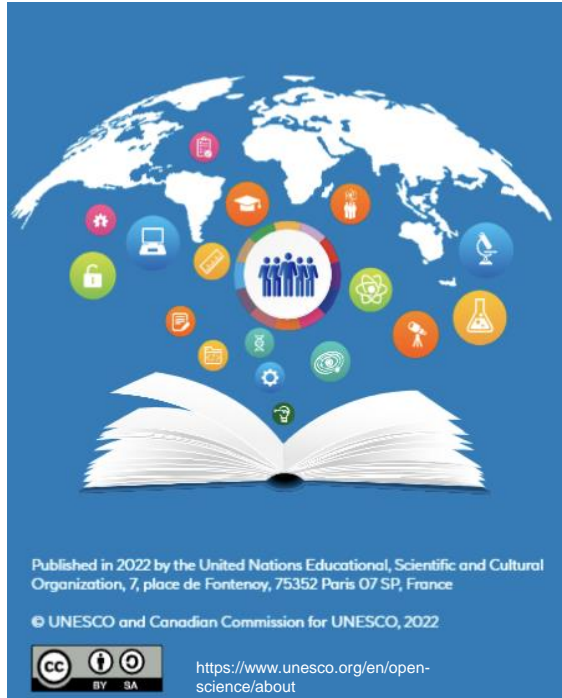
資助者要求 Data Management Plan (DMP)



Ten Simple Rules for Creating a Good Data Management Plan

- 01 Determine the Research Sponsor Requirement
- 02 Identify the Data to Be Collected
- 03 Define How the Data Will Be Organized
- 04 Explain How the Data Will Be Documented
- 05 Describe How Data Quality Will Be Assured
- 06 Present a Sound Data Storage & Preservation Strategy
- 07 Define the Project's Data Policies
- 08 Describe How the Data Will Be Disseminated
- 09 Assign Roles and Responsibilities
- 10 Prepare a Realistic Budget

UNESCO Recommendation on 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#.YVL91LgzUk>

MANDATORY ONCE ACCEPTED



研究資料典藏庫必需遵循 F.A.I.R. 原則

F

Findable



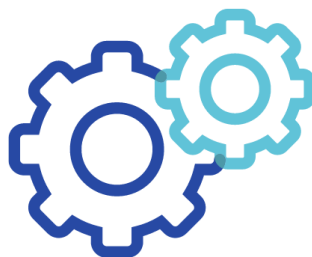
A

Accessible



I

Interoperable

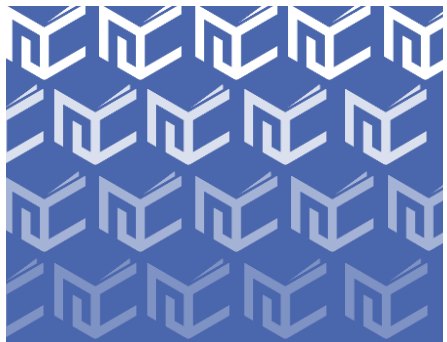


R

Reusable



<https://libguides.lib.hku.hk/researchdata/datahub>

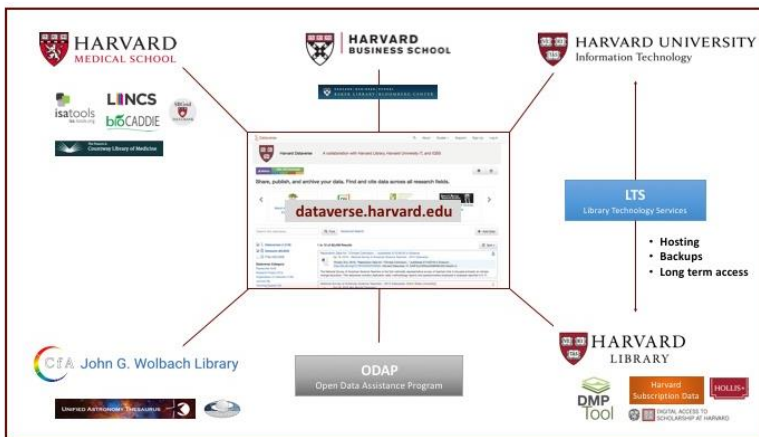
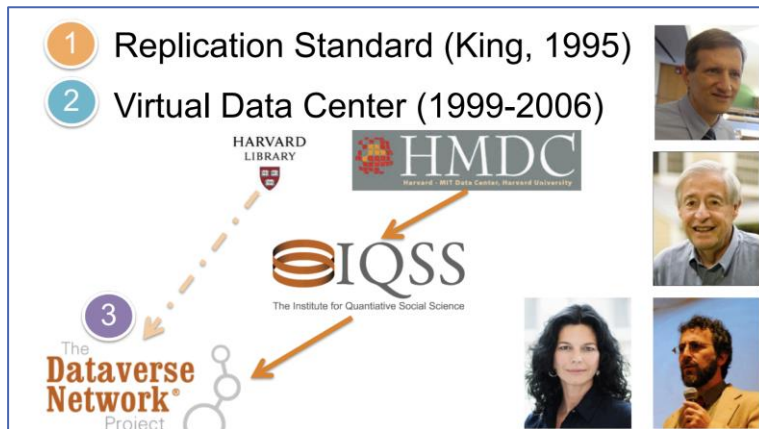


03

Dataverse平臺： 串聯點滴展現資料管理的價值

為什麼會有 Dataverse ?

- 資料重用標準
- 虛擬資料中心
- 跨單位的合作



<https://dataverse.org/sites/projects.iq.harvard.edu/files/dataverseorg/files/harvarddataverserdap.jpg?m=1464795891>

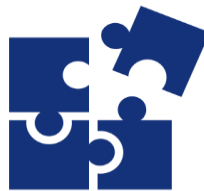
Dataverse 的特色



開源軟體



具國際性



多元學科



多元類型



可被搜尋



存取控管



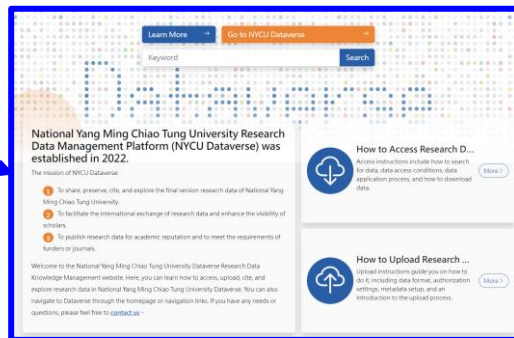
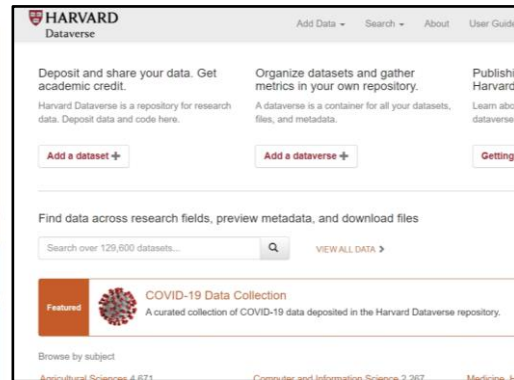
權限管理



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Dataverse 的特色 | 具國際性

115 Installations



Dataverse 的特色 | 多元學科

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

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Astronomy and Astrophysics 1,282	Engineering 2,130	Social Sciences 61,811
Business and Management 1,797	Law 5,785	
Chemistry 855	Mathematical Sciences 677	

ALL SUBJECTS >

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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

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- 2022 (117)

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Less...

Author Affiliation

Department of Computer Science, National Yang Ming Chiao Tung University (37)
Institute of Lighting and Energy Photonics, College of Photonics, National Yang Ming

1 to 10 of 181 Results

Temporal alpha dissimilarity of ADHD brain network
Feb 20, 2024
Ko, Li-Wei, 2024, "Temporal alpha dissimilarity of ADHD brain network", **LBOJUM**, NYC University
<https://doi.org/10.57770/LBOJUM, NYC>

This supplementary material comprises the anonymous data used in the paper, which is essential for researchers seeking detailed insights into the network structure.

GC-like LDPC Code Construction and its NN-like Property
Feb 20, 2024 - 張錫嘉 Dataverse
Hsieh-Chia Chang; Yu-Lun Hsu; Li-Wei Lin
<https://doi.org/10.57770/LBOJUM, NYC>

This is a research paper of GC-like LDPC Code Construction and its NN-like Property.

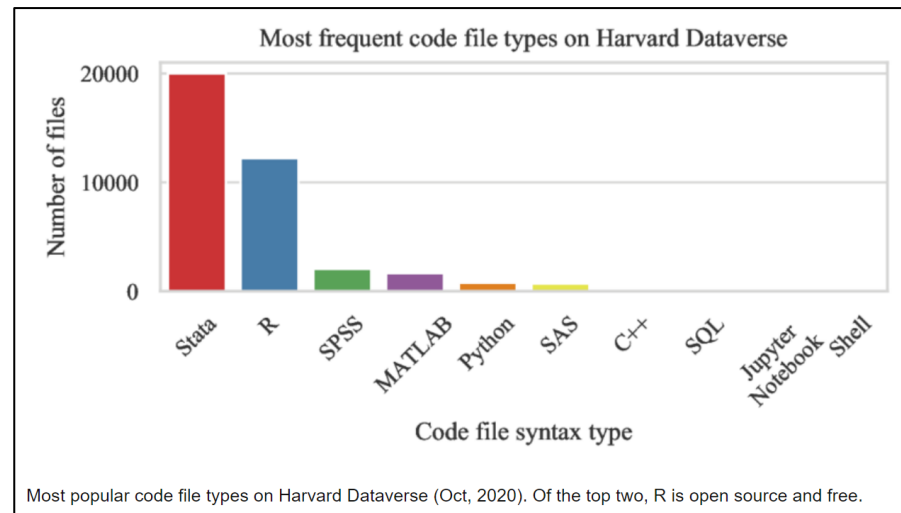
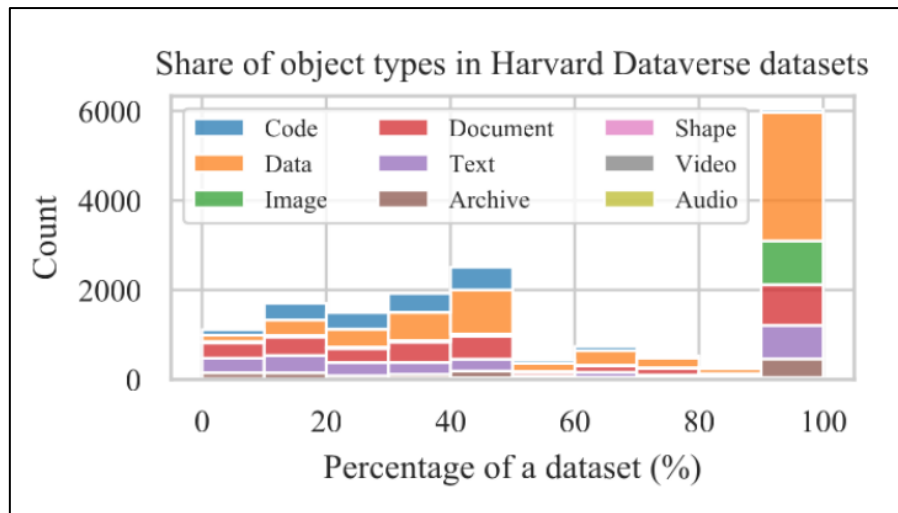
張錫嘉 Dataverse
Feb 20, 2024

Characterization and Predictors of Fractures in Transplant Recipients
Feb 2, 2024
Chang, Jei-Wen, 2024, "Characterization and Predictors of Fractures in Transplant Recipients", **N2NHER**, NYC University
<https://doi.org/10.57770/N2NHER, NYC>

Context: Bone loss and fractures are common and risk predictors for fractures in transplant recipients.

DenseNet-Powered Radiologist Early Warning

Dataverse 的特色 | 多元類型



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

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

Dataverse 的特色 | 可被蒐尋

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



NYCU Dataverse registered in

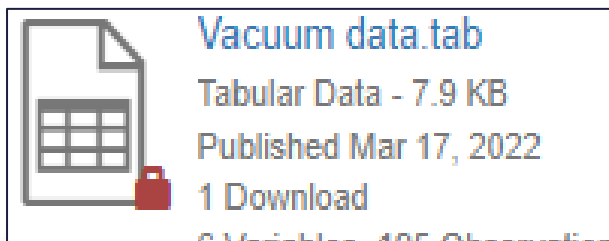
Datacite



Metadata of Dataverse harvested in Datacite

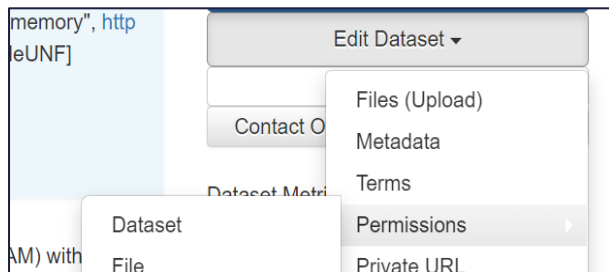
Dataverse 的特色 | 存取控管

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

Dataset

File

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 *

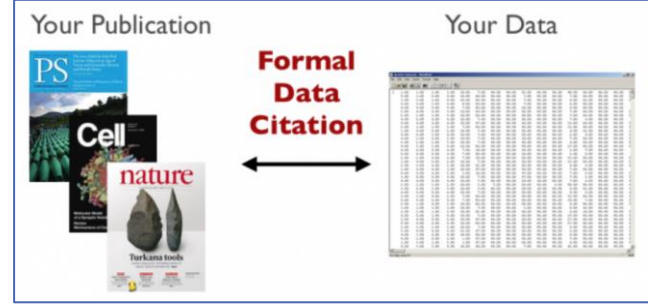
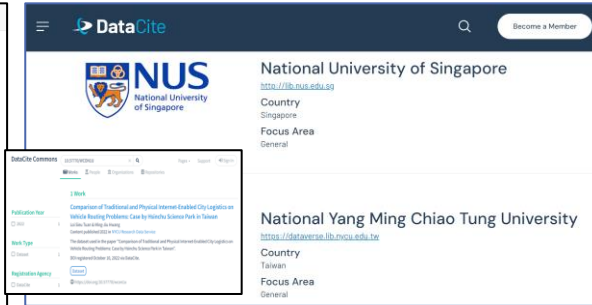
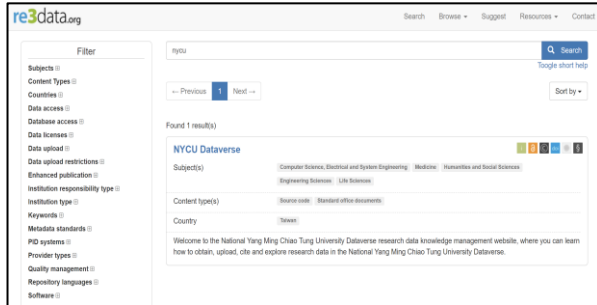
Position *

聯絡作者

Contact Owner

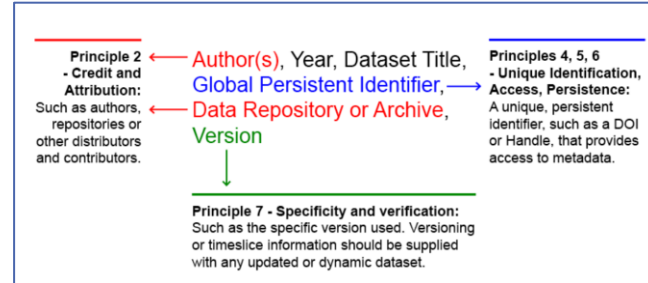
Share

Dataverse 的特色 | 提高曝光



- 出版商和期刊，例如 Springer Nature 將 re3data.org 納入編輯政策，引薦資料典藏庫。
- “歐盟委員會 Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020” 中也建議參閱 re3data。

- 與其他基礎設施提供者互通，例如 Crossref、ORCID。
- DataCite Commons 中一篇 dataset，經由 NYCU Dataverse 收錄進來。



- Dataverse 使用《Joint Declaration of Data Citation Principles》制定資料引用範例。
- APA、Chicago、MLA、...

NYCU Dataverse 建置目標

信譽



發布研究資料以獲得學術的信譽，滿足資助者或者期刊投稿的要求。

曝光



促進國際間研究資料傳遞及共享，提高研究人員知名度。

珍藏



初期以保存和探索陽明交大的定稿版研究資料為目標。

效益



研究人員可輕鬆上傳資料，使其他人更容易發現、取得和引用資料。

協作



建立或參與團隊按研究專案、研究室或單位，進行組織和管理權限。

NYCU Dataverse 建置過程



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

NYCU Dataverse 現況 - 中英文介面

NYCU Dataverse

(National Yang Ming Chiao Tung University)

2,073 Downloads

Wei-Chen (Waion) Chiu Dataverse | Hsi-Chia Chiang Dataverse | Chih-Shan Tan Dataverse | Sheng-Hsiung Yang Dataverse

簡易查詢 → Search this dataverse... | Advanced Search ← 進階查詢

中文介面切換

查詢結果資料集

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

排序

Dataverses (8) | Datasets (181)

Dataverse Category: Researcher (7), Laboratory (1)

Publication Year: 2024 (27), 2023 (45), 2022 (117)

Subject: Medicine, Health and Life Sciences (84), Computer and Information Science (54), Engineering (52), Chemistry (46), Earth and Environmental Sciences (23)

Author Affiliation: Department of Computer Science, National Yang Ming Chiao Tung University (37)

1 to 10 of 89 Results

Distinguishing Methicillin-resistant Staphylococcus aureus from Methicillin-sensitive Strains by Combining Fe3O4 Magnetic Nanoparticle-based Affinity Mass Spectrometry with A Machine Learning Strategy
Mar 15, 2024 - Yu-Chie Chen Dataverse

Yu-Chie Chen, 2024, "Distinguishing Methicillin-resistant Staphylococcus aureus from Methicillin-sensitive Strains by Combining Fe3O4 Magnetic Nanoparticle-based Affinity Mass Spectrometry with A Machine Learning Strategy", <https://doi.org/10.57770/SEFSNW.NYCU.Dataverse.V1.UNF6.wil2P17mXvJ1H+p2NcHhg==> [fileUNF]

The original and raw data of the manuscript entitled "Distinguishing Methicillin-resistant Staphylococcus aureus from Methicillin-sensitive Strains by Combining Fe3O4 Magnetic Nanoparticle-based Affinity Mass Spectrometry with A Machine Learning Strategy"

Yu-Chie Chen Dataverse (Department of Applied Chemistry, NYCU)
Mar 15, 2024

Research Interests: Analytical Chemistry Mass Spectrometry Nanobiotechnology

Data_Predicting aging trajectories of decline in brain volume, cortical thickness and fractional anisotropy in schizophrenia
Mar 15, 2024 - Laboratory of Precision Psychiatry Dataverse

ZHU, JUN-DING, TSAI, SHIH-JEN, LIN, CHING-PO, LEE, YI-JU, YANG, ALBERT C., 2024, "Data_Predicting aging trajectories of decline in brain volume, cortical thickness and fractional anisotropy in schizophrenia", <https://doi.org/10.57770/FC2JWS.NYCU.Dataverse.V1>

Brain-age prediction is a novel approach to assessing deviated brain aging trajectories in different diseases. However, most studies have used an average brain age (BAG) of individuals with schizophrenia of different illness durations for comparison with healthy participants...

NYCU Dataverse 現況 – 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 -

Filter by
File Type: All - Access: All -

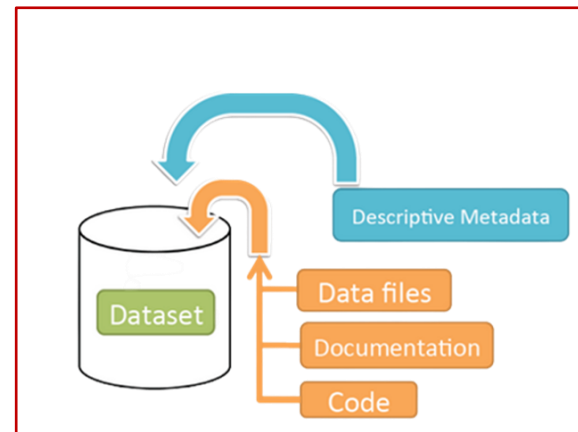
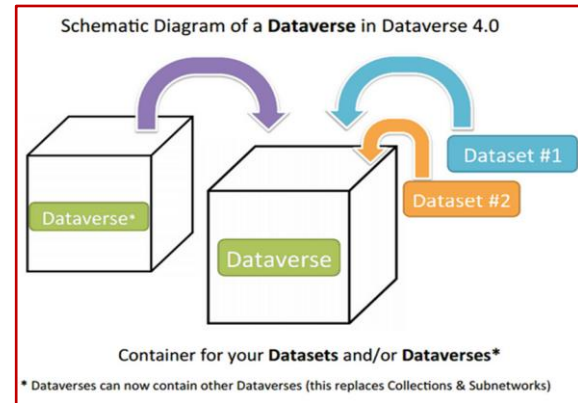
- All
- Image (7)
- Unknown (6)
- Text (3)
- Data (2)
- Document (2)
- Code (1)

DS_Store
Unknown - 6.0 KB
Published Jul 11, 2023
1 Download
MD5: 034...
Uploaded with GitHub Action from D...

glattributes
Unknown - 6.0 B
Published Jul 11, 2023
0 Downloads
MD5: 038...
Uploaded with GitHub Action from D...

Access: All -

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



NYCU Dataverse 現況 | F.A.I.R 實踐

The image shows a screenshot of the NYCU Dataverse landing page for a dataset. The dataset title is "Replication Data for: Few-Shot and Continual Learning Attentive Independent Mechanisms". The version is 1.0. The landing page includes a description, a "Cite Dataset" button, and a "Dataset Metrics" section showing 67 Downloads. Annotations highlight various features and actions:

- Dataset Landing Page**: A purple box pointing to the top of the dataset page.
- Contact Owner**: A pink box pointing to the "Contact Owner" button in the "Access Dataset" section.
- Make Data Count**: A green box pointing to the "Dataset Metrics" section, which shows "67 Downloads".
- DOI with URL, Metadata registered to DataCite (Findable and Accessible)**: A brown box pointing to the "Cite Dataset" button and the DOI link.
- Files**: A green box pointing to the "Files" tab in the dataset view.
- Metadata**: An orange box pointing to the "Metadata" tab in the dataset view.
- Restricted Files Terms of Access Request Access Guestbook**: A blue box pointing to the "Terms" tab in the dataset view.
- Download / Reuse**: A purple box pointing to the "Download" button in the dataset view.

The dataset description includes the following text:

sequentially that were u
adaptation to new tasks
for the on-going research
problems, we introduce
of learning using fast an
extraction and higher-or
conceptual learning, m
concepts to solve a new
deep learning framework
SIB and trained on Min
also applied to MNLM a
demonstrate its capabil

The dataset view shows the following files:

File Name	Size	Published	Downloads
AIM.py	5.8 KB	Jun 16, 2022	1 Download
aim.py	8.2 KB	Jun 16, 2022	1 Download

NYCU Dataverse 現況 | 取用設限

Restricted data files
(Authentication and Authorization needed)

This screenshot shows a file named 'TMDAS.tab' in a Dataverse interface. The file is marked as 'Restricted' with a red lock icon. A 'Request Access' button is visible in the top right. A dropdown menu is open, showing options: 'File Access', 'Restricted', 'Request Access', 'Download Metadata', and 'Data File Citation'. The file details include: 'Tabular Data - 3.9 KB', 'Published Nov 10, 2022', '0 Downloads', and '5 Variables, 402 Observations UNF:6:zqwe.../Q=='. The 'Rawdata' link is also present.

Open data files
(Accessible)

This screenshot shows two files in a Dataverse interface. The first file, 'CTdata.csv', is 'Public' and accessible. The second file, 'CT_originaldata.tab', is also accessible. A dropdown menu for the second file shows options: 'File Access', 'Public', 'Download Options', 'Download Metadata', and 'Data File Citation'. The file details for 'CTdata.csv' include: 'Comma Separated Values - 65.4 KB', 'Published Aug 29, 2023', '0 Downloads', and 'MDS: a23...31b'. The file details for 'CT_originaldata.tab' include: 'Computational Thinking/ Tabular Data - 26.0 KB', 'Published Jun 13, 2022', '1 Download', and '24 Variables, 367 Observations UNF:6:tmEJ...6lg=='. The interface includes a search bar and filter options.

This screenshot shows two files in a Dataverse interface, both highlighted in yellow to indicate they are accessible. The first file, 'CTdata.csv', is 'Public' and accessible. The second file, 'CT_originaldata.tab', is also accessible. A dropdown menu for the second file shows options: 'File Access', 'Public', 'Download Options', 'Download Metadata', and 'Data File Citation'. The file details for 'CTdata.csv' include: 'Comma Separated Values - 65.4 KB', 'Published Aug 29, 2023', '2 Downloads', and 'MDS: a23...31b'. The file details for 'CT_originaldata.tab' include: 'Computational Thinking/ Tabular Data - 26.0 KB', 'Published Jun 13, 2022', '1 Download', and '24 Variables, 367 Observations UNF:6:tmEJ...6lg=='. The interface includes a search bar and filter options.

NYCU Dataverse 現況 | 串連 datasets 與 ORCID

The screenshot shows the NYCU Dataverse interface. The dataset title is "Profile of oral microbiome associated with nasogastric tube feeding". The author is listed as "Yu-Cheng Lin (Department of Dentistry) - ORCID: 0000-0002-4787-2565", which is circled in pink. The description mentions a study on oral microbiome in patients with nasogastric tubes. The subject is "Medicine, Health and Life Sciences" and the keyword is "oral microbiome, nasogastric tube, 16S rRNA, amplicon sequence variant, aspiration pneumonia".

NYCU Dataverse

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 Profile 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.

Description Background: Dysbiosis of oral microbiome causes chronic diseases including dental caries and periodontal disease in older patient populations. Severely disabled individuals with impaired swallowing functions may require nasogastric (NG) tubes, further impacting their oral condition and possibly microbial composition. How 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 oral microbiome of NG-tube and oral-feeding patients were substantially different, with more Gram-negative aerobes and more anaerobes in the NG-tube patients. Specifically, NG-tube patients presented more opportunistic pathogens like Pseudomonas and Clostridium with pneumonia, and lower levels of commensal Streptococcus and Veillonella. Co-occurrence analysis revealed a relationship between commensal and pathogenic species. Conclusion: We present a systematic, high-resolution 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) Profile of oral microbiome associated with nasogastric tube feeding. Journal of Oral Microbiology. doi.org/10.1080/20002297.2023.2200898 https://doi.org/10.1080/20002297.2023.2200898

The screenshot shows the ORCID profile page for Yu-Cheng Lin. The profile includes a photo, a bio, and contact information. The bio mentions his position as an Associate Professor at National Yang Ming University. The contact information includes a phone number (02)2826-7305, a fax number (02)2827-3123, an email address (tsajw@ym.edu.tw), and a website (bmi.ym.edu.tw). The page also shows a list of notifications from DataCite, including updates to his ORCID record and work sections.

ORCID
Connecting research and researchers

id
https://orcid.org/
0009-0007-9398-5652
[Preview public record](#)

蔡金吾
特聘教授兼研發處
國立陽明交通大學
醫學部口腔科學研究所
電話: (02)2826-7305
傳真: (02)2827-3123
電子郵件: tsajw@ym.edu.tw
網址: bmi.ym.edu.tw

Notifications (2)

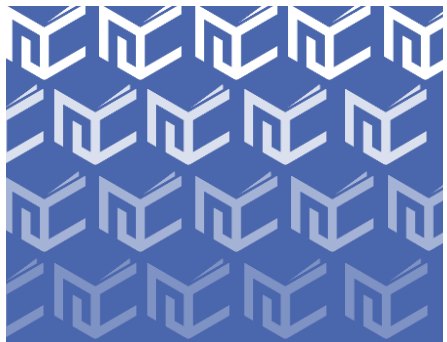
Select All Archive selected

YOUR RECORD DataCite has made changes to your ORCID record 2024/01/18

DataCite
has updated the Work section of your record:
Added
- Single Cell RNA sequencing of embryonic mouse brain at embryonic day 13.5 and 15.5
• doi: 10.57770/iwasqj

YOUR RECORD DataCite has made changes to your ORCID record 2024/01/18

DataCite
has updated the Work section of your record:
Added
- Visium Spatial Gene Expression of embryonic mouse brain at embryonic day 15.5
• doi: 10.57770/p3tk72



04

超越傳統挑戰： 主動積極的RDM與推廣服務策略

推廣策略



- 解說國際趨勢及服務宗旨
- NYCUDataverse 的亮點
- 圖書館支援研究生生命週期

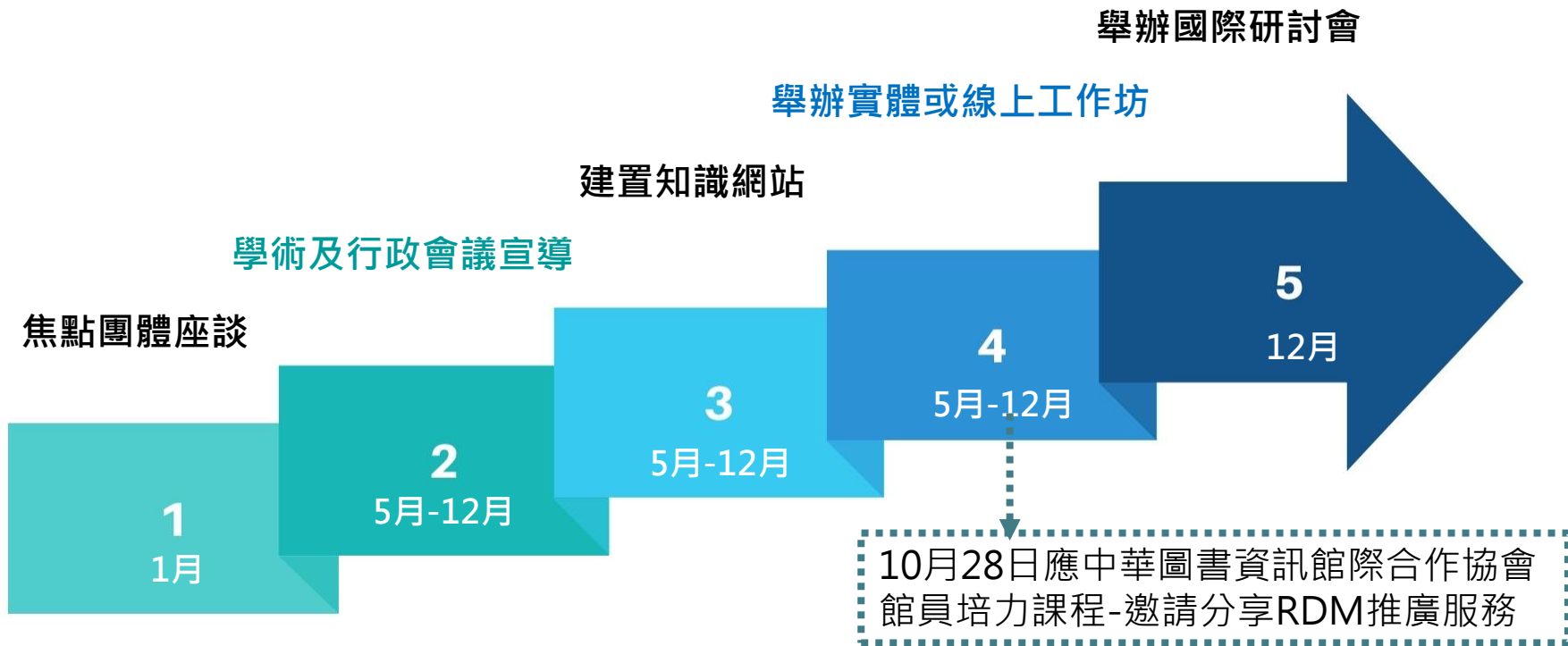


- 於各類型會議中報告交流
- 《研究資料管理原則》
- RDM知識服務入口網站



- 訪談研究人員請益及實踐
- 學科館員提供客製化服務
- 實體或線上工作坊及會議

第一年推廣過程 (2022年)



Focus Group Interviews 焦點團體座談

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



圖書館關心研究人員的意識！

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

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

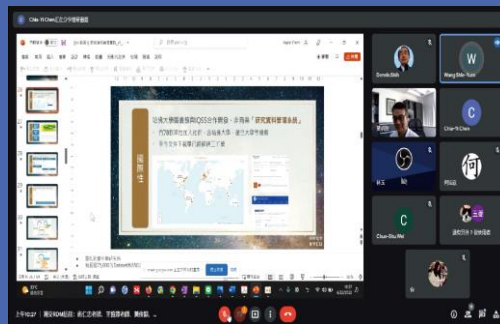
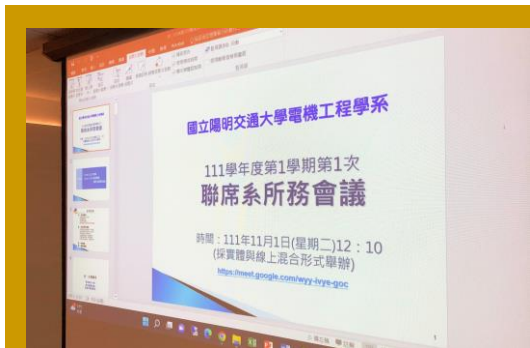
各種工具

各種應用工具以及深度介接期待輔助

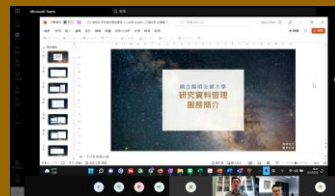
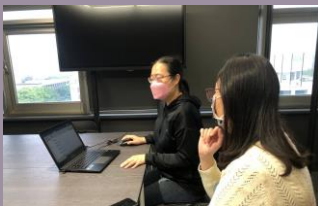
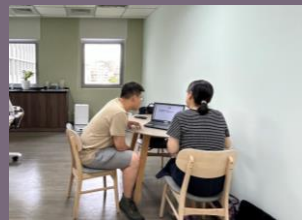
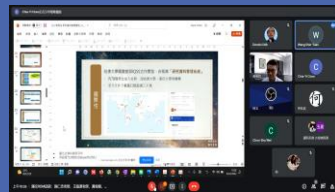
團隊運作

院系所或實驗室使用

學院館員至各個學院院務會議宣導及交流



學院館員個別接觸教師-超過30位



學院館員簡報交流重點



- 國際趨勢及第三方要求
- 研究資料管理的重要性



- Dataverse的源起與價值
- 研究人員需求及意見交流



- 成功實例分享及邀請合作
- 舉辦教育推廣及諮詢服務

FAQ | 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Dataverse

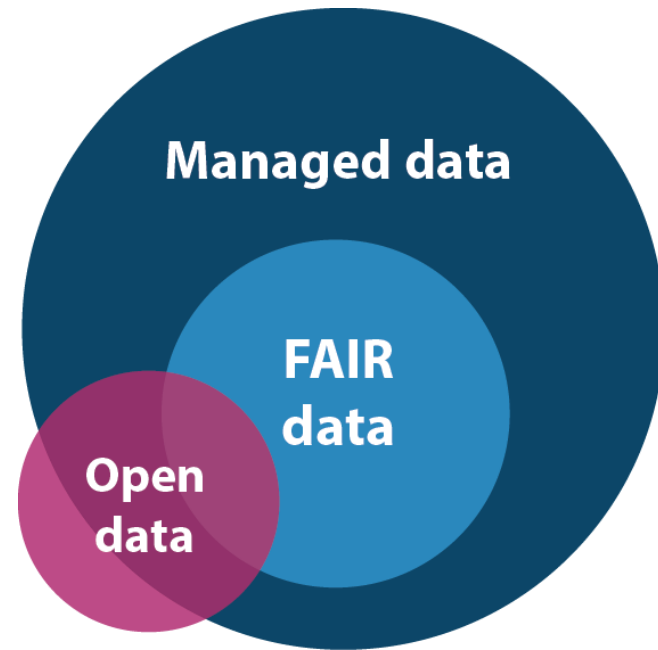
人體研究法第14條：

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。



來源：The Hong Kong Polytechnic University,
<https://libguides.lb.polyu.edu.hk/rdm/sharing/fair>

解說 Dataverse上傳步驟

for example...

Dataverse首頁

The screenshot shows the Dataverse homepage with a search bar and navigation links. A red box highlights the 'Add Data' button, and another red box highlights the 'Add Dataset' button. A third red box highlights the 'Add Dataset' button in the search results area.

37

Dataverse首頁-如何新增Dataset

The screenshot shows the Dataverse homepage with a red box highlighting the 'Add Dataset' button in the search results area.

38

Dataset上傳頁面-標題與作者

The screenshot shows the Dataset upload page with the 'Title' and 'Author' fields highlighted. A red box highlights the 'Author' field, and another red box highlights the 'Title' field.

41

Dataset上傳頁面-通訊作者與描述

The screenshot shows the Dataset upload page with the 'Contact Author' and 'Description' fields highlighted. A red box highlights the 'Contact Author' field, and another red box highlights the 'Description' field.

42

Dataset上傳頁面-相關出版

The screenshot shows the Dataset upload page with the 'Related Publication' field highlighted. A red box highlights the 'Related Publication' field.

44

Dataset上傳頁面-研究資料學科

The screenshot shows the Dataset upload page with the 'Subject' field highlighted. A red box highlights the 'Subject' field.

43

Dataset上傳頁面-相關出版

The screenshot shows the Dataset upload page with the 'Related Publication' field highlighted. A red box highlights the 'Related Publication' field.

44

Dataset上傳頁面-File功能

The screenshot shows the Dataset upload page with the 'File' field highlighted. A red box highlights the 'File' field.

46

Dataset上傳頁面-File限制功能

The screenshot shows the Dataset upload page with the 'Restrict Files and Add Dataset Terms of Access' field highlighted. A red box highlights the 'Restrict Files and Add Dataset Terms of Access' field.

47



陽明交大 NYCU Dataverse

共享、集中、保存、引用與探索會本館研究資料，促進國際研究資料傳播，提高學界的知名度，獲得學術地位，並可滿足資助者或期刊的要求。

參與國際社群 ● 與Harvard Dataverse合作
 哈佛大學圖書館與數位資料研究中心合作開發之國際性數位資料平台Harvard Dataverse Center 與本館合作

採用國際標準 ● 認證DOI
 國際標準開放存取 (Open Access) 平台
 Dataverse 4.8.4 Release
 Full Support for Sciencing
 WEB OF SCIENCE
 DATA CITE'S VALUE

研究人員優勢

- 開放存取格式 確保數據可存取
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資料存取限制

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資料存取限制

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上傳與修改

- Log in(學校帳號)
- Add Data
- Edit Dataset

資料存取限制

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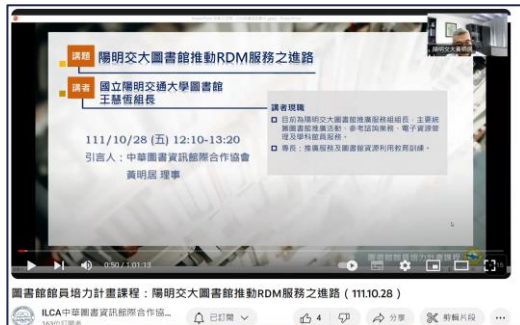
NYCU Dataverse 上傳及登入入口

Copyright © 2022 National Yang Ming Chiao Tung University Library



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

當數據的成長，提供大學圖書館其建於其基本服務，電子館藏及數位館藏的整合服務平台，也發展了開放性應用與協同合作的服務效果；而研究資料管理 (Research data management) 在學術傳播及國際學術研究領域作為新趨勢，除了透過系統管理、共享、保存、引用、探索和分析研究資料，協助和支持學者的學術研究過程，也是研究資料再應用的重要性，是未來學術發展之重要趨勢。本研究結合特約國際學者及專家，從國際架構的開放性服務平台、驗證合作的服務模式，及研究資料管理與學術生產等面向，與您分享國際最新到館服務的發展趨勢、經驗與轉化應用經驗。



陽明交大圖書館推動RDM服務之進路

11/10/28 (五) 12:10-13:20
 引言人：中華圖書資訊館際合作協會 黃明區 理事

講者現職：
 目前為陽明交大圖書館推廣服務組組長，主要統籌圖書推廣業務、學術諮詢服務、電子資源服務及期刊館員服務。
 曾任：推廣服務及圖書資訊利用科科長、

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)



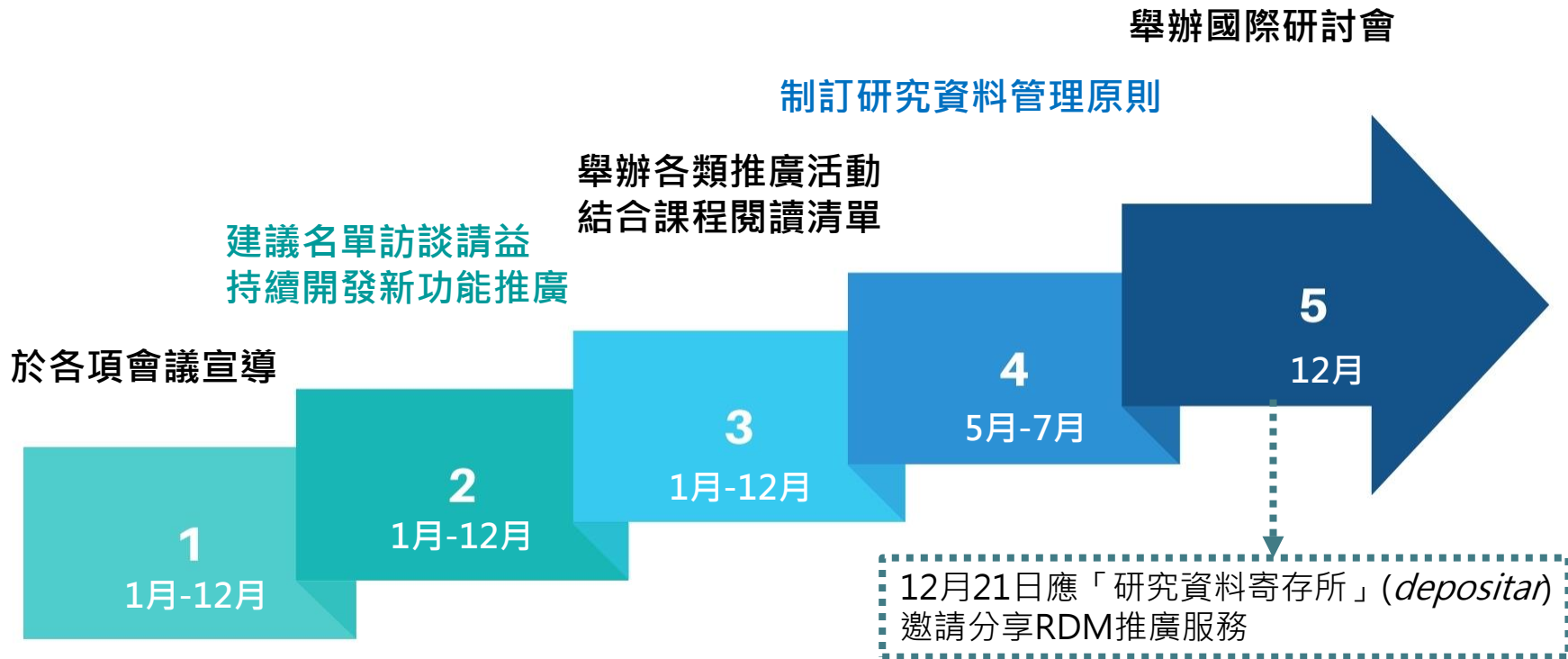
舉辦座談會 | 工作坊 | 國際研討會

YouTube 數位教材專區

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 respective titles, view counts, and upload dates. The videos cover topics such as research data management services, NYCU Dataverse user roles and permissions, dataset storage and settings, DOI acquisition, and research data upload instructions. There are also videos from other institutions like National Sun Yat-sen University and National Tsing Hua University regarding course reading lists and data collection methods.

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

第二年 (2023年)



開發 NYCU Dataverse 新功能及製作短片

Dataset中可能含有不同類型的檔案,如Excel、圖檔、音檔等NYCUDataverse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。

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) 是確保這些資料可持續且高有效利用的關鍵。

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 video conference, including Daniel Su and others from various institutions like NYCU, Sun Yat-sen University, and National Central University.

Dataverse

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



- NYCU Dataverse 是明定公開存取的研究資料平台，開放本校研究人員將其在國際期刊學術研究資料，使用國際標準，提供開放存取。**
- 服務項目：**
 - 開放存取各種格式，如文件、影像、聲音、影像、表格格式、多種研究資料、實驗研究、期刊引用計劃。
 - It stores various data formats such as documents, images, audio, video, spreadsheets, and code, ensuring diverse content.
- 服務對象：**
 - 支援研究人員自行制定、研究資料的存取權限、存取限制、存取時間限制、永久存取和存取權限。
 - Supports researchers to define access policies and access restrictions for research data and settings as long as they have the rights, permanent identifiers, and metadata.
- 符合期刊/圖書館要求**
Full-fledged options requirement Cap
- 學術研究資料管理服務**
學術研究資料管理服務
The academic research data management service




Publish Your Research Data

國立陽明交通大學圖書館



LUCK DRAW EVENT

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

會議交流 | 工作坊 | 推廣活動

整合 Dataverse 與 館藏探索 以及 數位教學

國立陽明交通大學圖書館
重新查詢 期刊探索 資料庫探索 以書目找全文 主題特藏 資源展精

LIBRARY SEARCH
New Library Services Platform

Causal decomposition in the mutual causation system

全部 全面搜索 進階搜索

全部館藏 模糊搜索 紀錄中的任何地方

調整檢索結果

- 本館 + 非本館資源
- 排序規則: 相關性
- 僅顯示
- 線上可用資源
- 同儕評鑑期刊
- 開放存取
- 出版年: 1991 - 2022
- 資料類型: 期刊文獻 (5), 預印本 (1), 圖書 (含電子書) (2), 研究數據 (1)
- 主題: Decomposition (3), Science & Technology (3), Physics (3)

已選取 1-7 之中的 7 檢索結果 儲存檢索語法 個人化

- 期刊文獻**
Causal decomposition in the mutual causation system
Yang, Albert C.; Peng, Chung-Kang; Huang, Norden E
Nature communications, 2018, Vol.9 (1), p.3378-10, Article 3378
Here, we present a causal-decomposition approach that is not based on prediction, but based on the covariation of cause and effect...
同儕評鑑 開放存取
下載PDF檔 線上目前可獲得
- 研究數據**
Replication Data for: Causal decomposition in the mutual causation system
Albert C. Yang; Chung-Kang Peng; Norden E. Huang; Albert C. Yang
線上可獲得
- 期刊文獻**
Causal Decomposition in the Mutual Causation System
Yang, Albert C.; Huang, Norden E.; Chung-Kang, Peng
arXiv.org, 2017
Here, we present a causal decomposition approach that is not based on prediction, but based on the instantaneous phase dependency between the intrinsic components of a decomposed time series...

Reading lists All

Print Slip Report Back Save

1112.131018 智慧醫療與應用實例 Intelligent Medicine and Hands-on Applications

Reading List Information

Code: 0.5151858712860142

Name: 1112.131018 智慧醫療與應用實例 Intelligent Medicine and Hands-on Applications

Due Back Date: 2023/09/12

Current Request for Review: -

Review Requester: -

Creative Commons License: [Dropdown]

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Resources

Discovery

Fulfillment

Show MDE

研訂陽明交大《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籍人員及學生，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，包含但不限於文字、實驗參數、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，及屆滿後之刪除與歸檔程序。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之存取、檢閱、再利用，以及可再視研究過程及結果。
 - （三）去連結：涉及個人資料、資料之生物標本、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與各簽定合約，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、申請及獲得國內外專利、授權、讓與、收益、退還及其相關資訊之揭露、責任、清結、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紀錄管理，責成相關單位建置與維護有關系統。
 - （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，計畫主持人應負監督之責，訂立實驗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後，責成研究人員確實規範，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）及其他監督機關(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歸檔程序，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



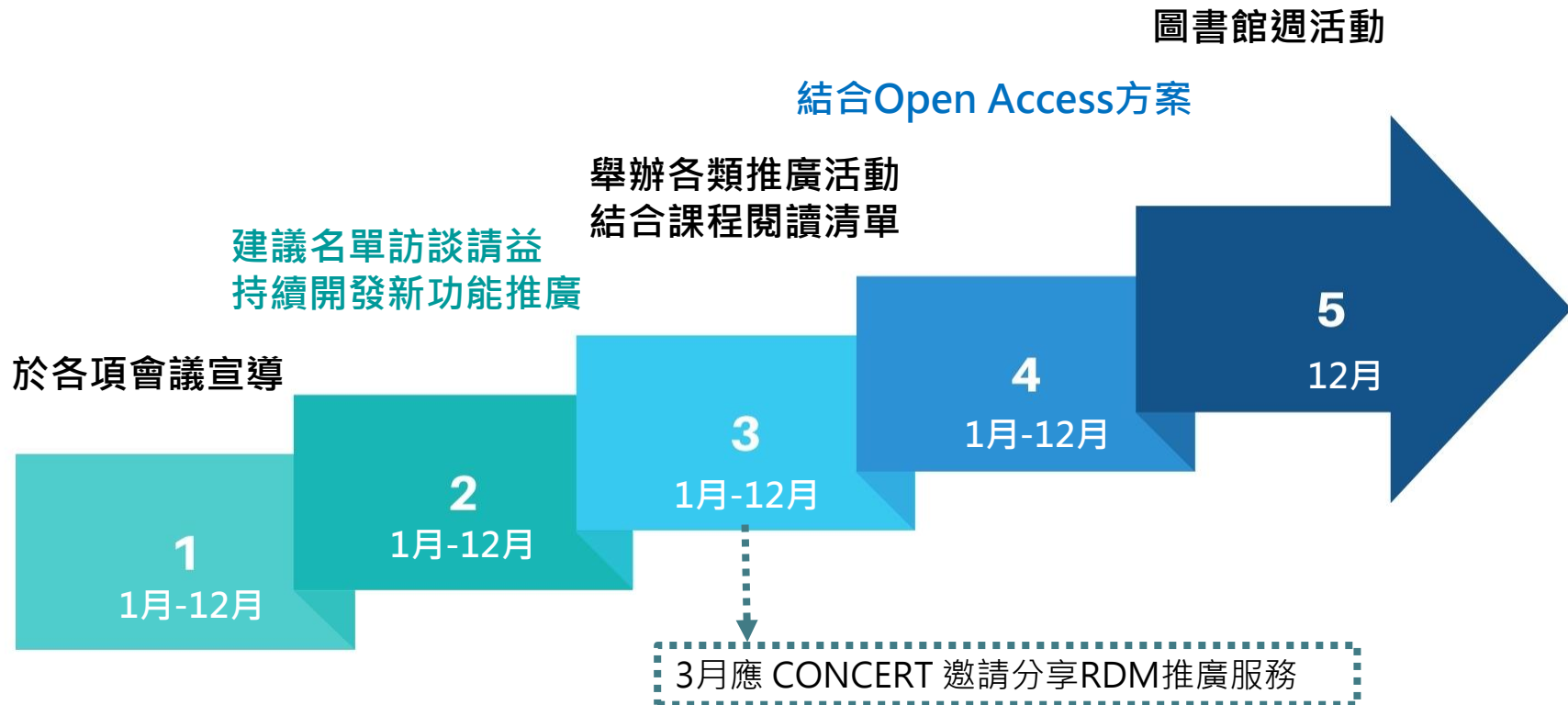
國立陽明交通大學學術倫理與研究誠信辦公室
Office of Academic Ethics and Research Integrity

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>

第三年（2024年）



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

<https://flysheet.my.canva.site/flymed-rdm-seminar>

NYCU
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B1國際會議廳
 (300 新竹市大學路10019號)
 11 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 台北陽明校區—守仁樓廣才廳
 (112 台北市北陽區立農街二四155號)
 1F Show-Rm Bldg, National Yang Ming Chiao Tung University - Yang Ming Campus
 (No.155, Sec.2, Linong Street, Taipei, 112 Taiwan)

研討會報名請點我 [Click to register](#)

Introduction

本研究計畫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，期望帶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 Iacus
Director of Data Science and Product Research, Senior Research Scientist



Sonia Barbosa
Manager of Data Curation, Harvard Datasense



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 Precision Medicine, 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 OSS/LS/DS, Academia Sinica



Prof. Chih-Shen Tse
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B1國際會議廳

09:00 - 09:30 報到 Registration
 09:30 - 09:50 開幕致詞 Opening
 09:50 - 10:30 **Session 1: Entering the World of RDM: Why is Dataset/RDM so Crucial?**
 The principles of data sharing and what this means for generalist repositories - AI integration
 10:30 - 11:10 The user experience in data sharing and utilization of the Dataverse-supported repository
 11:10 - 11:20 茶歇 Break
 11:20 - 12:00 近端 FAIR資料庫的開放存取-- 研究資料寄存人(depositor)的發展 The Development of depositor -- An Open Repository for FAIR Data
 12:00 - 13:30 午餐 Lunch
 13:30 - 15:30 **Session 2: Advantages of Dataverse in Research Data Management: Why Choose the Dataverse?**
 From Chaos to Clarity: Curating Data in a Dataverse Platform
 15:30 - 15:45 茶歇 Break
 15:45 - 16:15 研究資料的尋找與開發等經驗分享 Exploring Research Data: Strategies for Citation and Sharing Publication Experiences
 16:15 - 16:45 Network Science Thinking and Research Data Management: Unveiling the Digital Opportunities Shaping Academic Excellence
 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 報到 Registration
 09:30 - 09:50 開幕致詞 Opening
 09:50 - 10:40 **Session 1: Differential Privacy and User Experience Sharing**
 Differential privacy principles and our experience at Dataverse
 10:40 - 11:30 人工智慧對於數位轉型及智慧醫療之應用 Application of Artificial Intelligence in Digital Transformation and Smart Healthcare
 11:30 - 12:20 隱私強化技術如何推動醫療創新發展 How Privacy-Enhancing Technologies Drive Innovation and Transformation in Healthcare
 12:20 - 12:30 綜合討論與閉幕 Discussion & Concluding Session

期刊 Open Access 轉型方案結合 NYCU Dataverse



2021年起補助研究人員OA出版

鼓勵作者同步上傳研究資料至Dataverse



獎勵作者同步上傳研究資料至Dataverse



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

持續收集成功合作實例



投稿期刊上傳研究資料至公開的典藏庫

for example...



林奇宏 校長
微免所 教授



黃明居 館長
運輸與物流管理學系 教授



陳震寰 教振
北榮心臟內科特約醫師



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



張瑞文 教授
北榮兒童免疫腎臟科主任



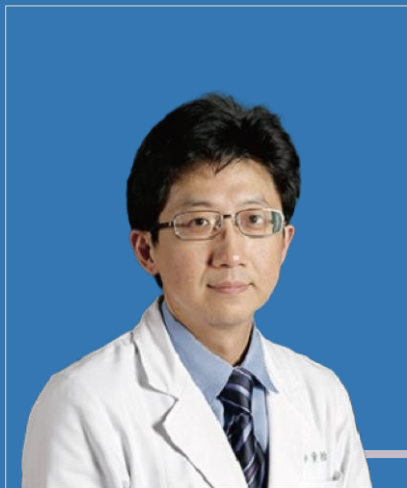
曾意儒 教授
資工學系



翁孟嘉教授
木土系



黃柏勳 教授
北榮心臟內科主治醫師



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

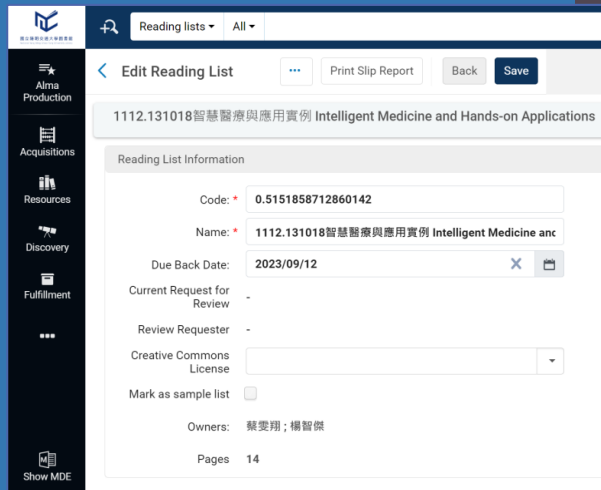
- 臺北榮總醫院重症加護內科主任，黃柏勳教授，為進行關於高血壓患者腎功能相關的研究，招募100名高血壓患者，並且在符合研究倫理委員會的規定下收集患者的研究資料。
- 分析這些研究資料後，研究團隊發覺伴隨血管修復能力降低的內皮損傷，與高血壓患者腎功能進一步惡化有關，並以此為主題發表了文獻。
- 奠基這篇高血壓腎功能文獻的研究資料並沒有從此束之高閣。
- 2020年，來自尼德蘭馬斯垂克大學的學者連絡上黃柏勳教授，表明這份研究資料可以協助他們比較高血壓相關的動物模式，希望可以了解更多關於研究資料的內容。
- 因此，黃柏勳教授提供更細節的研究資料給尼德蘭馬大學者，最終分析出年齡相關高血壓內型的因果機制，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

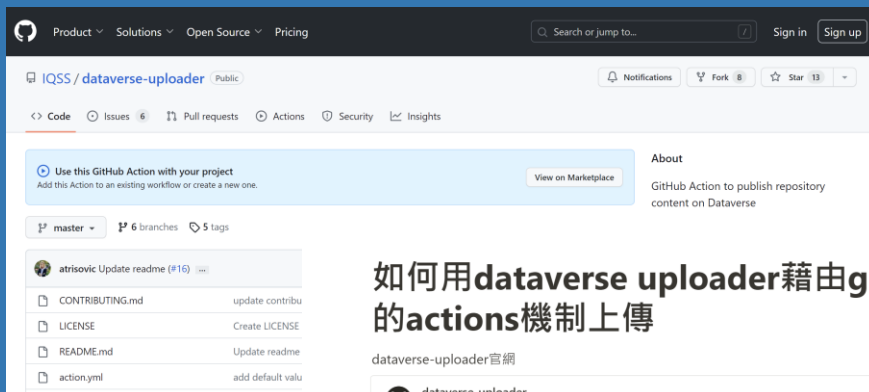
陽明交大學 腦科學研究所 教授兼所長
 陽明交大學 醫學系 副主任
 臺北榮總 醫學研究部 主治醫師
 臺北榮總 人工智慧發展中心 副主任

- 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

 dataverse-uploader
IQSS

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.nHsJY/sKtqQU/bUBmF6VUG== [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 unknown.

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

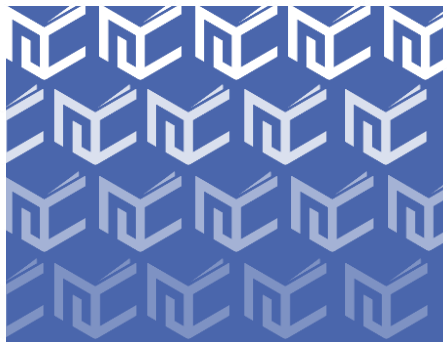
Apr 7, 2023

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/10.57770/5YIEHH>, NYCU Dataverse, V1, UNF:6.3sHBhLxDpqy4o4t1ghhCA== [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

圖的未來角色： 引領RDM與生命週期服務革新

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 on individual websites that can only be discovered via tailored approaches due to limited or lack of metadata or machine-readable information. The University of Groning 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 NYCU Dataverse knowledge website, aiming to increase reuse and enhance international cooperation."

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

We overuse open access, but people who use it are not always aware of it. 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.

"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

"我們在 NYCU 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

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或獎例，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。



國立陽明交通大學圖書館

National Yang Ming Chiao Tung University Library

謝謝聆聽

Thank you for listening