



2022
F.I.R.S.T Workshop

PubMed and Bio-Resources Databases of NTU Library

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Subject Service Division,
National Taiwan University Library

In this talk

- 1 How to search databases?
- 2 Search Strategies and Techniques
- 3 PubMed
- 4 General Bio-Resources Databases
- 5 Open Access Resources





1. How to search databases?

Databases

The screenshot shows the National Taiwan University Library website. At the top right, there are links for 'NTU', 'Library Calendar', and 'FAQ'. The main header features the library's logo and name in Chinese and English, along with a building illustration. Below this is a navigation bar with 'Search & Find', 'Research Support', 'Services', 'About', and 'Links'. A large green arrow points down to the 'Databases' tab in the main menu, which is highlighted in red. Below the tabs is a search bar with a dropdown menu set to 'Any' and the text 'PubMed' entered. A red 'search' button is to the right. Below the search bar, a message says 'If you wish to search from a specific database, please use Databases.' The word 'Databases.' is highlighted with a green box, and a green callout bubble points to it with the text 'Browse Databases'.

NTU Library Calendar FAQ

國立臺灣大學圖書館
National Taiwan University Library

Search & Find Research Support Services About Links

Catalog Discovery **Databases** Special Collections

Any PubMed search

If you wish to search from a specific database, please use **Databases.**

Browse Databases



Enter database name



Sign in to get complete results and to request items [Sign in](#)

**General databases
often used**

Databases by
Category / Titles /
Content Type

> Browse by Subject

> Browse by Titles

> Content Type

• Trial

Related Links

- [View All](#)
- [Database APP](#)
- [Off-campus Internet Connection](#)

Top picks

- [Web of Science](#)
- [Scopus](#)
- [JSTOR](#)
- [Academic Search Complete](#)
- [Airiti library](#)
- [CNKI](#)

Feature Databases

Arts & Humanities

[Art](#) ; [History](#) ; [Linguistics](#) ; [Literature](#) ; [Music](#) ; [Philosophy](#) ; [Religion](#) ; [Theatre/Movies](#)

Life Sciences & Medicine

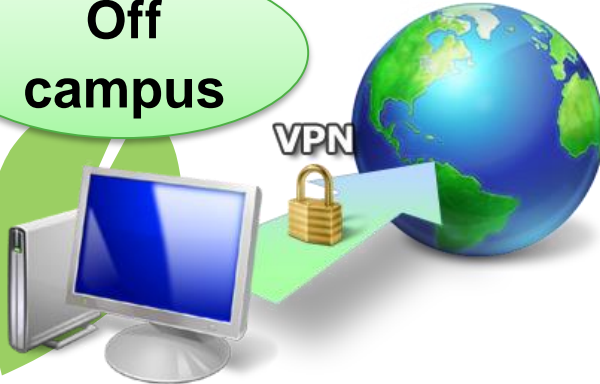
[Agriculture](#) ; [Biological Sciences](#) ; [Medical Science](#) ; [Nursing](#) ; [Pharmacy / Pharmacology](#) ; [Public Health](#) ; [Zoology](#)

**Click ">" to
show more**

**Important databases
of each subject**

Off-campus internet connection services (VPN, Virtual Private Network)

Off
campus

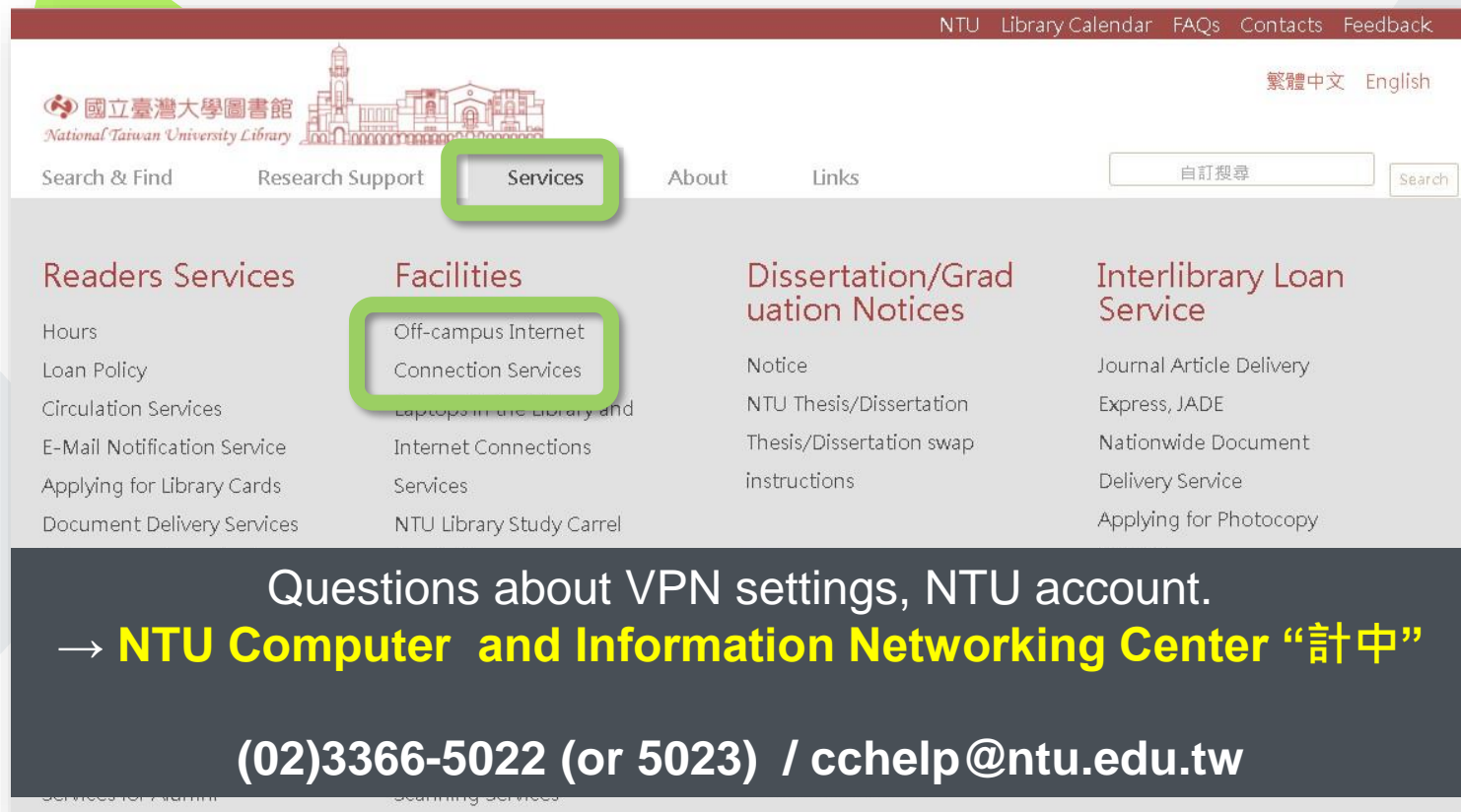


NTU
Network



NTU IP address
140.112.*.*

Off-campus internet connection services (VPN, Virtual Private Network)



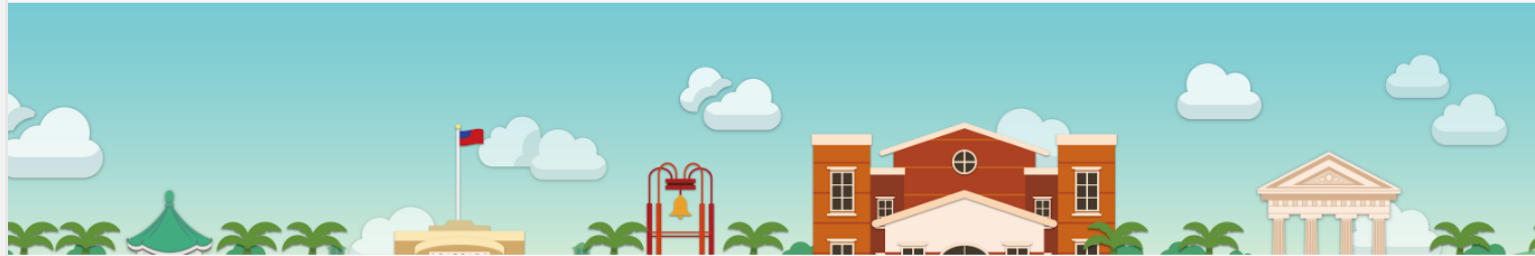
The screenshot shows the National Taiwan University Library website. The top navigation bar includes links for NTU, Library Calendar, FAQs, Contacts, and Feedback. The main navigation menu has 'Search & Find', 'Research Support', 'Services' (highlighted with a green box), 'About', and 'Links'. Under the 'Services' menu, there are four categories: 'Readers Services', 'Facilities' (highlighted with a green box), 'Dissertation/Graduation Notices', and 'Interlibrary Loan Service'. Under 'Facilities', the link 'Off-campus Internet Connection Services' is highlighted with a green box. Below the navigation menu, there are four columns of services: 'Readers Services' (Hours, Loan Policy, Circulation Services, E-Mail Notification Service, Applying for Library Cards, Document Delivery Services), 'Facilities' (Off-campus Internet Connection Services, Laptops in the Library and Internet Connections Services, NTU Library Study Carrel), 'Dissertation/Graduation Notices' (Notice, NTU Thesis/Dissertation, Thesis/Dissertation swap instructions), and 'Interlibrary Loan Service' (Journal Article Delivery Express, JADE, Nationwide Document Delivery Service, Applying for Photocopy).

Questions about VPN settings, NTU account.
→ **NTU Computer and Information Networking Center “計中”**
(02)3366-5022 (or 5023) / cchelp@ntu.edu.tw

How to apply for VPN?

NTU SSL VPN Service

常見問答 聯絡管理者 中文版



* **Important!** From March 1, 2022, in order to use NTU SSL VPN service, NTU faculty, staff, and students have to enable VPN service for their account.. Please refer to the following steps:

1. Go to <http://changepassword.cc.ntu.edu.tw>, login, then choose from Service List 4.
2. You'll need to enter the rightmost 4 digits of the numbers on the lower right corner of the back of your NTU ID card.
3. If there's trouble following the steps, please call or visit Computing Center Helpdesk (tel: 33665022~3)
4. After successfully activate your VPN privilege, you can continue VPN connection as usual.
5. The VPN validity period is one year. One month before its expiration, there'll be email notification to remind you. Your VPN validity can be extended right away online, or you can re-activate afterwards.

<https://ccnet.ntu.edu.tw/vpn/PulseSecure-eng.html>

How to apply for VPN?

親愛的 [Name] 您好，您來自 [Location]

您的帳號資訊(Your Account Info)

名稱(Username)	[Username]
種類(Type)	職員 Staff
狀態(Status)	在校/在職/正常 Normal/Activated
前次密碼更改>Password last modified)	[Date]

計算機中心所提供之服務如下(Services List)：

1. [密碼修改\(Change Password\)](#)
2. [設定 Eduroam 密碼](#)
3. [設定 G Suite\(Google Apps\)服務](#)
4. [進階功能 - 啟用 SSLVPN 校外連線服務](#)

[登出](#)

進階服務 設定網頁 [\[English Version\]](#)

Instruction of English Version

相關說明

- 計中部分服務，具備高資安保護考量，因此列為「進階服務」。
 - 目前進階服務包括：SSLVPN（校外連線）
 - 申請啟用「進階服務」，需進行第二層身份驗證。
 - 請拿出您的職員證/學生證，翻到背面，找出右下角一連串數字，需要最末四碼。
 - 服務對象
 - 僅限本校人事室控管人員、具備學籍學生。
 - 不包含附設單位，如：台大醫院、動物醫院、實驗林、山地農場等。
 - 不包含「新生未繳費休學者」。
 - 不包含「新生未取得學生證者」。(新生完成註冊，開學後即可取得學生證。)
- 如不確定卡片是否有效，請刷卡進入就近館舍，以驗證卡片有效性。
- 若曾掛失卡片，請儘速補辦新卡。

[\[Sample Pictures\]](#)

請輸入證件背面末四碼

[申請驗證](#)

[回到上一頁](#)



XXXXXX
XX

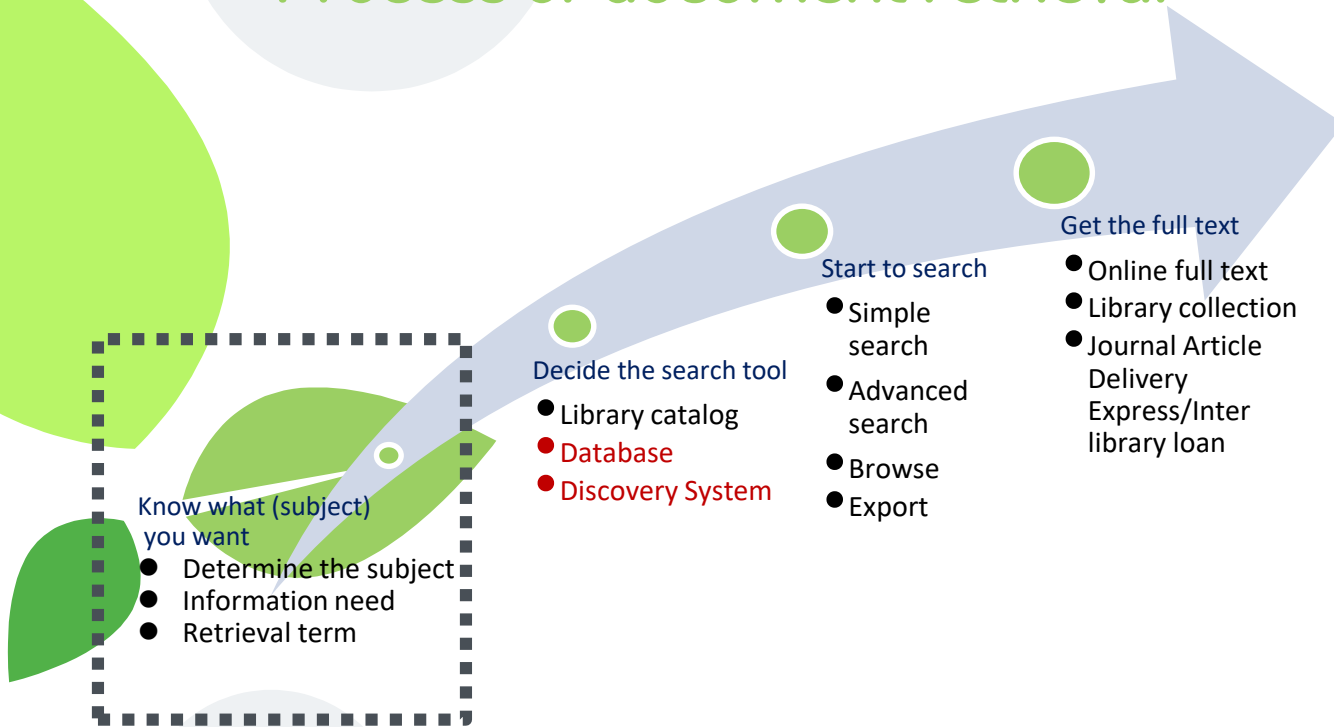
the last 4 digit of the code at the back of your NTU student ID card



2. Search Strategies and Techniques



Process of document retrieval



The background features several stylized elements: a large light green leaf in the center, a smaller medium green leaf to its left, and a very large light gray circle at the top. In the bottom left corner, there is a partial view of another light gray circle and a small green leaf.

Concept on your mind → Retrieval term



Extract keywords

- Opinion, concept, and proper noun
- Prefix and suffix change, such as part of speech, singular and plural, or abbreviation
- Use different languages
- Find the hierarchical relationship between words

A Review on Polymeric Membranes and Hydrogels Prepared by Vapor-Induced Phase Separation Process

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Chung-Li, Taiwan

²R&D Center for Membrane Technology, Chung Yuan Christian University,
Chung-Li, Taiwan

³Department of Chemical Engineering, National Taiwan University, Taipei,
Taiwan

⁴Institut Européen des Membranes, Université Montpellier 2, Montpellier,
France

In 1918, Zsigmondy and Bachmann presented a new method to induce phase separation of a homogeneous polymeric solution from a vapor phase. The so-called vapor-induced phase separation (VIPS) was born. In a century, the body of knowledge on polymeric membranes and hydrogels prepared by VIPS has grown importantly, which suggests the need for a critical review. Slowness of mass transfers involved in VIPS, attributed to the resistance at the gaseous phase/liquid phase interface, permits reaching better control of polymer membrane formation than with the popular wet-immersion process. As a result, a broad variety of morphologies can be obtained and well controlled. The control of testing conditions and formulation parameters also permits tuning and tailoring morphologies, which arises in various membranes properties, and led scientists to investigate the possibility of forecasting mass transfers in VIPS. Therefore, at the end of the twentieth century, first models were developed to describe this process, and validated by comparing simulated data to experimental results. Afterwards, studies demonstrated the possibility of predicting membrane morphologies from the knowledge of operating conditions. This article aims at reviewing the work done so far reporting this process to prepare polymer membranes and hydrogels. The experimental set-ups will be introduced as well as the different polymer/solvent/nonsolvent and polymer/additive(s)/solvent/nonsolvent systems used and the morphologies obtained. The effect of testing conditions and formulation parameters on the structure of the matrices will be subsequently discussed. Close attention will be given to the fundamental theory of VIPS before moving onto the potential applications of such polymer matrices.

Keywords VIPS process, polymer membranes, hydrogels, morphology control, testing conditions, VIPS simulation

Keywords from the Articles

Selection history modulates working memory capacity (Article) (Open Access)

Kuo, B.-C. ✉ 👤

Department of Psychology, National Taiwan University, Taipei, Taiwan

Abstract

Recent studies have shown that past selection history affects the allocation of attention on target selection. However, it is unclear whether context-driven selection history can modulate the efficacy of attention allocation on working memory representations. This study tests the influences of selection history on WM capacity. A display of one item (low load) and a display of multiple items (high load) was shown for the participants to hold in WM in a delayed response task. Participants were asked whether the probe item was in the memory display or not. Selection history was defined as the number of items a participant had selected in a task context within a block, manipulated by the stimulus set-size in the contexts with fewer possible stimuli (8-item or 9-item context) from which the memorized content was selected. Working memory capacity was estimated to reflect the number of items that can be held in WM. A 2 × 2 factorial design was used to manipulate the number of items in the context and the number of items in the stimuli. Results indicated that the capacity was significantly reduced in the context with more items when the focus was on only a single item. Together, these findings indicate that context-driven selection history influences WM capacity. © 2016 Kuo.

SciVal Topic Prominence ⓘ

Topic: Memory, Short-Term | Memory | Contralateral delay

Prominence percentile: 97.566 ⓘ

Author keywords

Attention

Limited capacity

Selection history

Top-down control

Working memory

Retrieval term

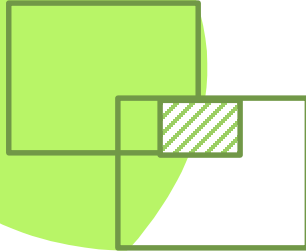


<https://www.youtube.com/watch?v=LTJygQwYV84>

Boolean Operators

AND

find result of both words



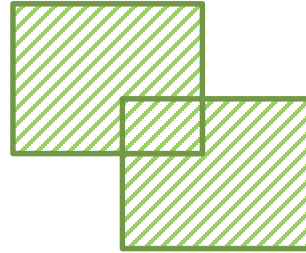
a study of attitudes and behaviors of idolatry among fans of popular songs.

attitude
AND behavior
AND idolatry
AND popular songs



OR

find either keyword

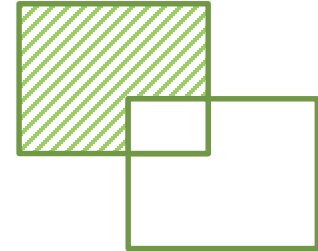


bike
OR bicycle
OR cycling
OR two-wheeler



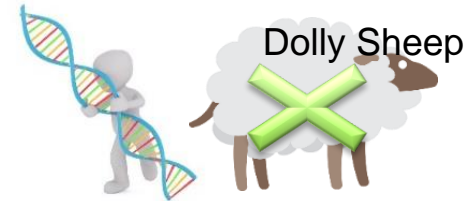
NOT

exclude words from the search



a study on genetic engineering of human cloning

cloning **NOT** sheep



Exact Phrase Search

- Use double quotation“ ” to search phrases. Every word is grouped together, not separate.
- For example, if you type “social networks privacy “, you wouldn’t get privacy in online social networks.

Google 學術搜尋 social networks privacy

文章 約有 3,430,000 項結果 (0.11 秒)

不限時間 提示：如只要搜尋中文（繁體）的結果，可使用學術搜尋設定指定搜尋語言。

2018 以後

2017 以後

2014 以後

自訂範圍...

按照關聯性排序

按日期排序

不限語言

Information revelation and privacy in online social networks

R Gross, A Acquisti - ... 2005 ACM workshop on Privacy in the electronic ... 2005

Participation in social networking sites has dramatically increased in recent years, such as Friendster, Tribe, or the Facebook allow millions of individuals to create profiles and share personal information with vast networks of friends-and, often, u

☆ 被引用 2693 次 相關文章 全部共 31 個版本

[引言] Teens, privacy & online social networks: How teens manage identities and personal information in the age of MySpace

A Lenhart, M Madden - 2007 - Pew Internet & American Life Project

☆ 被引用 901 次 相關文章

Google 學術搜尋 "social networks privacy"

文章 約有 1,040 項結果 (0.13 秒)

不限時間 提示：如只要搜尋中文（繁體）的結果，可使用學術搜尋設定指定搜尋語言。

2018 以後

2017 以後

2014 以後

自訂範圍...

按照關聯性排序

按日期排序

不限語言

搜尋所有中文網頁

搜尋繁體中文網頁

Characterizing privacy in online social networks

B Krishnamurthy, CE Wills - Proceedings of the first workshop on Online ... 2008 - dl.acm.org

... on OSNs. Categories and Subject Descriptors C.2 [Computer-Communication Networks]: Network Protocols—applications General Terms Measurement Keywords Online Social Networks, Privacy 1. INTRODUCTION Privacy ...

☆ 被引用 363 次 相關文章 全部共 16 個版本

On the leakage of personally identifiable information via online social networks

B Krishnamurthy, CE Wills - Proceedings of the 2nd ACM workshop on ... 2009 - dl.acm.org

... General Terms Measurement Keywords Online Social Networks, Privacy, Personally Identifiable In-formation ... ACM. [7] Balachander Krishnamurthy and Craig E. Wills. Privacy diffusion on the web: A longitudinal perspective ...

☆ 被引用 475 次 相關文章 全部共 17 個版本

Truncation / Wildcard Character

- ❑ The asterisk (*) is the Truncation character, used to **replace one or more characters**.
- ❑ It is used at the end of a root word, when you want to search for **variable endings of a root word**.

Retrieval term	Search results
fiction*	fiction
	fictions
educat*	educate
	educated
	education
	educational
	educator

Each database use the truncation character differently. Look for the "Help" of each database.

Truncation / Wildcard Character

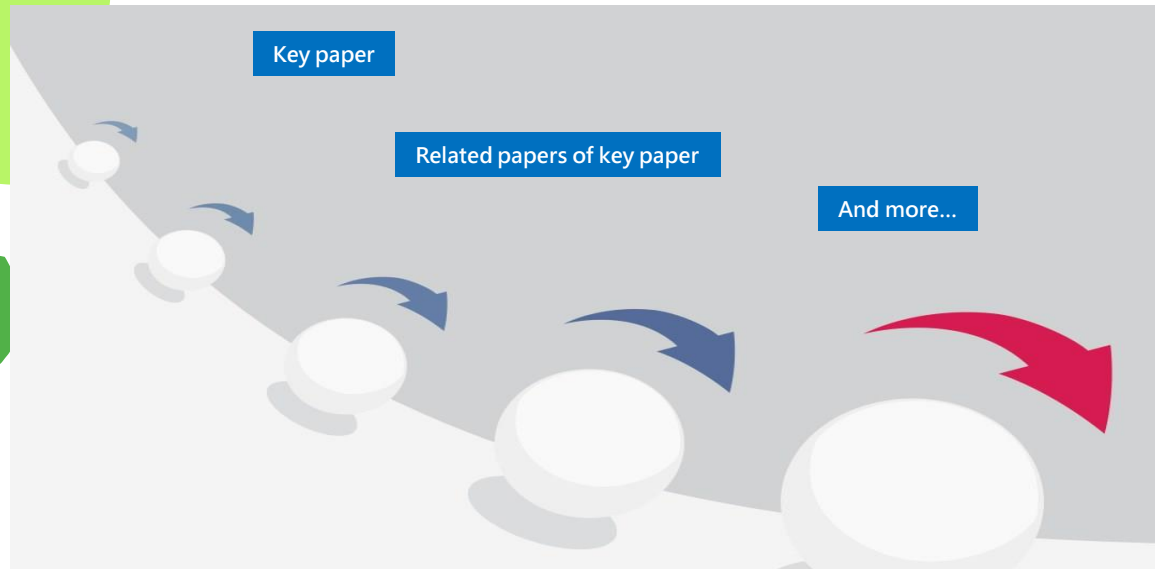
- ❑ The question mark (?) is the Wildcard character, used to **replace any single character**, either inside or at the right end of the word.
- ❑ It is useful when there are **variable spellings** for a word, and you want to search for all variants simultaneously.

Retrieval term	Search results
Wom?n	Wom a n
	Wom e n
Re?d	Rea d
	Ree d
Col?r	Colo r
	Colo u r

Each database uses the wildcard character differently. Look for the "Help" of each database.

Snowball Method

- Read related **references** to extend search results
- Use **"call number"** to find more similar subjects



Refine Results



- Results are classified again based on different attributes to decrease search scope

- subject, author, organization, document type, publication year, source title and so on

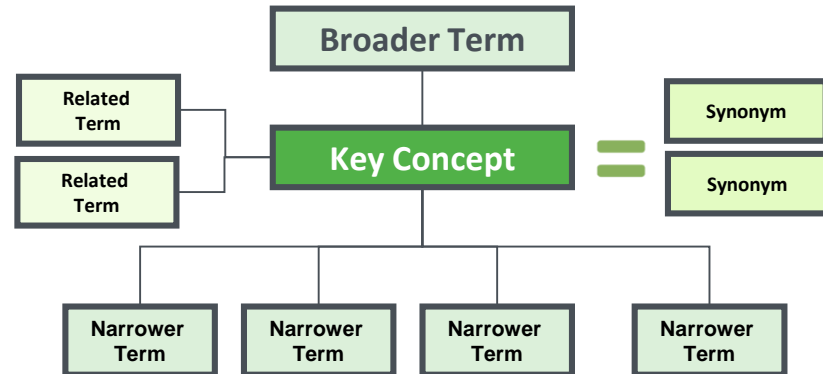
- With the amount of articles for each filtered item

Source Types ▾

- ☒ All Results
- ☐ Academic Journals (133,911)
- ☐ Book Articles (2,088)
- ☐ Books (775)
- ☐ Dissertation Abstracts (333)
- ☐ Websites (60)

Thesaurus (in the context of information retrieval)

- A thesaurus is an alphabetical listing of all the **subject terms** in a single database, used to classify and organize information for that database. The thesaurus shows **relationships** between terms such as **synonyms** or **related terms**, and **hierarchical arrangements** such as **broader terms**, or **narrower terms**.



Thesaurus

e.g. CAB Abstracts [EBSCOhost]

The screenshot shows the EBSCOhost CAB Abstracts Thesaurus interface. At the top, it says "Searching: CAB Abstracts" with a link to "Choose Databases". Below this is a search bar and a "Search" button. There are links for "Basic Search", "Advanced Search", and "Search History".

A yellow callout bubble on the left contains the text: "If you want to search the concept, it's suggested to type 'biological control **agents**' instead of 'biological control **organism**'".

Below the search bar, there is a section for "Select term, the search using: OR Add". A red box highlights the text "biological control organism Use: biological control agents".

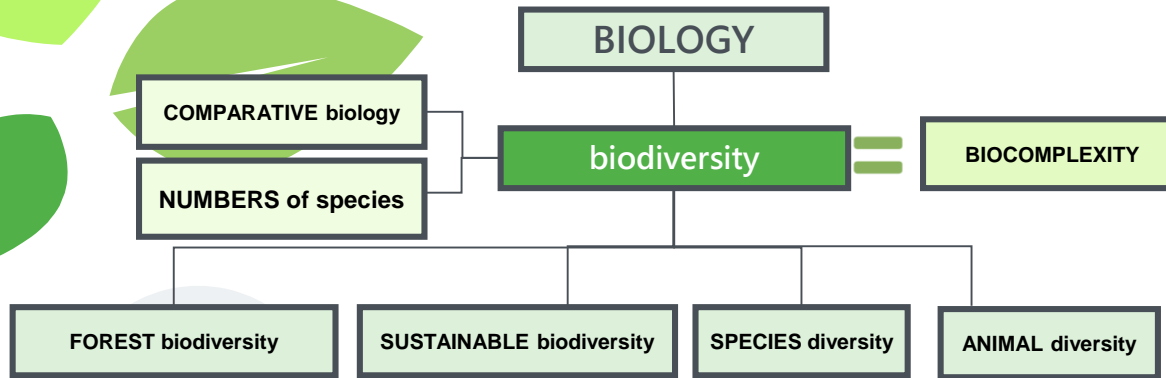
A yellow callout bubble on the right is titled "Broader Terms Related Terms". Below it, a list of terms is shown, with a red box highlighting the "Definition", "Broader Terms", and "Related Terms" links for the term "biological control agents".

The list of terms includes:

- ☐ biological control agents
 - Definition: Organisms deliberately used for
 - Broader Terms: ☐ organisms
 - Related Terms: ☐ biological control, ☐ entomogenous fungi, ☐ entomophilic nematodes

Subject Headings

- ❑ In addition to “author keywords”, **experts** would define more precise terms to documents.
- ❑ a type of standardized “tag” used to index and organize resources on the same topic



Subject Headings e.g. ASC [EBSCOhost]

New Search Publications **Subject Terms** Cited References Images More ▾ Sign In Folder Preferences

Searching: [Academic Search Complete](#) | [Choose Databases](#)

[Basic Search](#) [Advanced Search](#) [Search History](#)

[Subjects](#) [Places](#) [People](#)

Browsing: Academic Search Complete -- Subject Terms

☒ Term Begins With ☐ Term Contains ☐ Relevancy Ranked

[Back to List](#)

[Previous](#) [Next](#)

Select **Select term, then add to search using:**

☐ **CHILDREN'S literature**
Here are entered works on the totality of the variety of living organisms, the genetic differences among them, and the communities and ecosystems in which they occur.

Broader Terms

Narrower Terms

Related Terms

- ☐ BIOLOGY
- ☐ AGROBIODIVERSITY
- ☐ AMPHIBIAN diversity
- ☐ ADAPTIVE radiation (Biology)
- ☐ BIOCOMPLEXITY
- ☐ CAMBRIAN explosion (Evolution)
- ☐ COMPARATIVE biology
- ☐ ECOLOGICAL heterogeneity
- ☐ ENVIRONMENTAL education
- ☐ NUMBERS of species
- ☐ ORDOVICIAN radiation (Evolution)
- ☐ INVERTEBRATE diversity
- ☐ MAMMAL diversity

Thesaurus & Subject Headings

□ Main Purposes

Related Terms

- You want to explore a topic, but you don't have any idea.

Narrower Terms

- You will have to decrease the search scope with precise keywords if you get too many results,

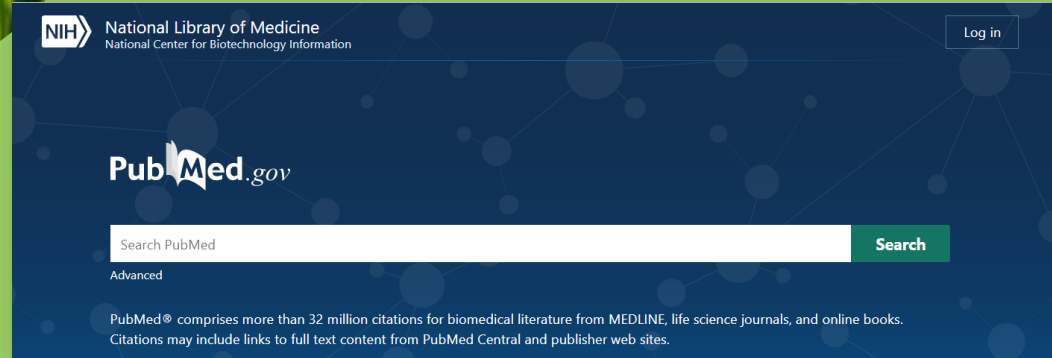
Broader Terms

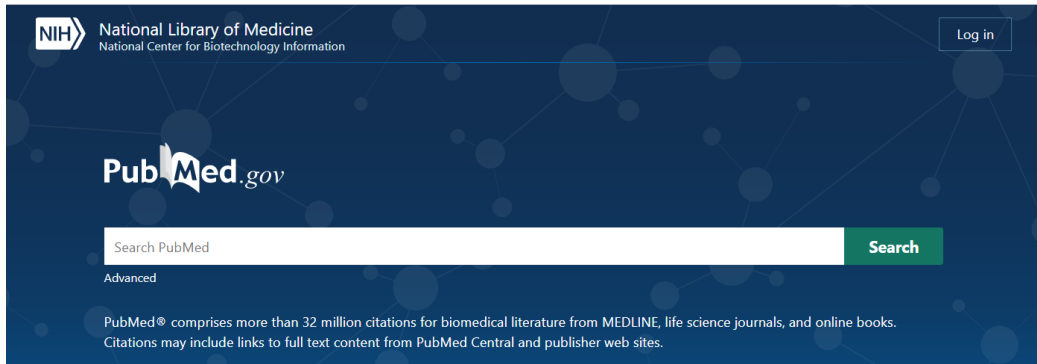
- If you only get few articles, you would have to expand search scope.

Synonyms

- Use similar words and retrieve target articles you may lost.

3. PubMed





PubMed

- ❑ A free resource supporting the search and retrieval of **biomedical and life sciences literature**
- ❑ Developed and maintained by the National Center for Biotechnology Information (NCBI), at the U.S. National Library of Medicine (NLM)
- ❑ Contains more than 32 million citations and abstracts of biomedical literature back to the 1950s.
- ❑ **Includes links to many sites providing full text articles** and other related resources.

How to Search for PubMed



Advanced

PubMed® comprises more than 34 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full text content from PubMed Central and publisher web sites.

Example

The 2022 Nobel Prize
for Physiology and
Medicine was
awarded to Swedish
scientist Svante
Pääbo
for Neanderthal
Genome Sequencing.



Search for Author

PubMed.gov

Svante Pääbo

Search

Advanced

PubMed® comprises more than 34 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full text content from PubMed Central and publisher web sites.

Display option

Save

Email

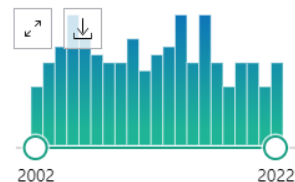
Send to

Sorted by: Most recent ↓

Display options ⚙

MY NCBI FILTERS

RESULTS BY YEAR



TEXT AVAILABILITY

- ☐ Abstract
- ☐ Free full text
- ☐ Full text

ARTICLE ATTRIBUTE

- ☐ Associated data

ARTICLE TYPE

- ☐ Books and Documents
- ☐ Clinical Trial
- ☐ Meta-Analysis
- ☐ Randomized Controlled Trial

215 results



Genetic insights into the social organization of

1

Skov L, Peyrégne S, Popli D, Iasi LNM, Devière T, Slon V, Zava

Cite

Bossoms Mesa A, López Herráez D, Nickel B, Nagel S, Richt

Share

P, Comeskey D, Derevianko AP, Kharevich A, Markin SV, Tala

Higham T, Viola B, Krivoschapkin AI, Kolobova KA, Kelso J, M

Nature. 2022 Oct;610(7932):519-525. doi: 10.1038/s41586-0

PMID: 36261548

檢視 PDF



Human TKTL1 implies greater neurogenesis in frontal neocortex of modern humans than Neanderthals.

2

Pinson A, Xing L, Namba T, Kalebic N, Peters J, Oegema CE, Traikov S, Reppe K, Riesenberger S, Maricic T,

Cite

Derihaci R, Wimberger P, Pääbo S, Huttner WB.

Share

Science. 2022 Sep 9;377(6611):eabl6422. doi: 10.1126/science.abl6422. Epub 2022 Sep 9.

PMID: 36074851

Search library



Longer metaphase and fewer chromosome segregation errors in modern human than Neanderthal brain development.

3

Mora-Bermúdez F, Kanis P, Macak D, Peters J, Naumann R, Xing L, Sarov M, Winkler S, Oegema CE,

Cite

Haffner C, Wimberger P, Riesenberger S, Maricic T, Huttner WB, Pääbo S.

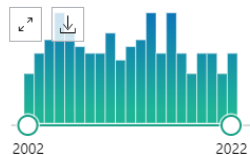
Share

Sci Adv. 2022 Jul 29;8(30):eabn7702. doi: 10.1126/sciadv.abn7702. Epub 2022 Jul 29.

PMID: 35905187

Free PMC article.

檢視 PDF



TEXT AVAILABILITY

- ☐ Abstract
- ☐ Free full text
- ☐ Full text

ARTICLE ATTRIBUTE

- ☐ Associated data

ARTICLE TYPE

- ☐ Books and Documents
- ☐ Clinical Trial
- ☐ Meta-Analysis
- ☐ Randomized Controlled Trial
- ☐ Review
- ☐ Systematic Review

PUBLICATION DATE

- ☐ 1 year
- ☐ 5 years
- ☐ 10 years
- ☐ Custom Range

Additional filters

☐ [Genetic insights into the social organization of Neanderthals.](#)

1 Skov L, Peyrégne S, Popli D, Iasi LNM, Deviese T, Slon V, Zavala EI, Hajdinjak M, Grotzer AP, Grote S, Bossoms Mesa A, López Herráez D, Nickel B, Nagel S, Richter J, Essel E, Gansauge M, Schröder A, et al. P, Comeskey D, Derevianko AP, Kharevich A, Markin SV, Talamo S, Douka K, Hajcarz M, Roberts RG, Higham T, Viola B, Krivoschapkin AI, Kolobova KA, Kelso J, Meyer M, **Pääbo S**, Peter BM. Nature. 2022 Oct;610(7932):519-525. doi: 10.1038/s41586-022-05283-y. Epub 2022 Oct 19. PMID: 36261548

檢視 PDF

☐ [Human TKTL1 implies greater neurogenesis in frontal neocortex of modern humans than Neanderthals.](#)

2 Pinson A, Xing L, Namba T, Kalebic N, Peters J, Oegema CE, Traikov S, Reppe A, Derihaci R, Wimberger P, **Pääbo S**, Huttner WB. Science. 2022 Sep 9;377(6611):eabl6422. doi: 10.1126/science.abl6422. Epub 2022 Sep 9. PMID: 36074851

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☐ [Longer metaphase and fewer chromosome segregation errors in modern humans than Neanderthal brain development.](#)

3 Mora-Bermúdez F, Kanis P, Macak D, Peters J, Naumann R, Xing L, Sarov M, Haffner C, Wimberger P, Riesenberger S, Maricic T, Huttner WB, **Pääbo S**. Sci Adv. 2022 Jul 29;8(30):eabn7702. doi: 10.1126/sciadv.abn7702. Epub 2022 Jul 29. PMID: 35905187 **Free PMC article.**

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☐ [The evolutionary history of human spindle genes includes a major expansion in flow with Neandertals.](#)

4 Peyrégne S, Kelso J, Peter BM, **Pääbo S**. Elife. 2022 Jul 11;11:e75464. doi: 10.7554/eLife.75464. PMID: 35816093 **Free PMC article.**

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☐ [The clinically relevant CYP2C8*3 and CYP2C9*2 haplotypes are present in Neandertals.](#)

5 Haeggström S, Ingelman-Sundberg M, **Pääbo S**, Zeberg H. Pharmacogenomics J. 2022 Jul;22(4):247-249. doi: 10.1038/s41397-022-00284-6. Epub 2022 Jul 2.

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☐ Middle Aged: 45-64 years

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60 results

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☐ A method for the temperature-controlled extraction of DNA from **ancient bones**.

1 Essel E, Korlević P, Meyer M.
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2 Lugli F, Sciutto G, Oliveri P, Malegori C, Prati S, Gatti L, Silvestrini S, Romandini M, Catelli E, Casale M, Talamo S, Iacumin P, Benazzi S, Mazzeo R.
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☐ Comparison of bone demineralisation procedures for DNA recovery from burned **remains**.

3 Mckinnon M, Higgins D.
Cite Forensic Sci Int Genet. 2021 Mar;51:102448. doi: 10.1016/j.fsigen.2020.102448. Epub 2020 Dec 26.
PMID: 33373911

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SPECIES

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Meta-Analysis: Technique that statistically combines the results of quantitative studies to provide a more precise effect of the results

Review: Published materials that provide an examination of recent or current literature. Can cover a wide range of subjects at various levels of completeness and comprehensiveness. It may include research findings.

Systematic Review: Seeks to systematically search for, appraise, and synthesize research evidence, often adhering to guidelines on the conduct of a review

> [Biotechniques](#). 2021 Jul;71(1):382-386. doi: 10.2144/btn-2021-0025. Epub 2021 Jun 24.

A method for the temperature-controlled extraction of DNA from ancient bones

Elena Essel¹, Petra Korlević^{1,2}, Matthias Meyer¹

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Abstract

Contamination with microbial and other exogenous DNA poses a significant challenge in the generation of genome-wide sequence data from ancient skeletal remains. Here we describe a method for separating ancient DNA into multiple fractions during DNA extraction by sequential temperature-controlled release of DNA into sodium phosphate buffer. An evaluation of the effectiveness of the method using a set of three ancient bones resulted in between 1.6- and 32-fold enrichment of endogenous DNA compared with regular DNA extraction. For two bones, the method outperformed previous methods of decontaminating ancient bones, including hypochlorite treatment, which resulted in near-complete destruction of DNA in the worst-preserved sample. This extraction method expands the spectrum of methods available for depleting contaminant DNA from ancient skeletal remains.

Keywords: ancient DNA; archaeological material; contamination removal; endogenous DNA; sequential DNA extraction.

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[The influence of sample quantity and lysis parameters on the success of ancient DNA extraction from skeletal remains.](#)

Euskirchen A, Hartmann L, Mazanec J, Wittmeier P, Hummel S.

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A method for the temperature-controlled extraction of DNA from ancient bones

Elena Essel^{*1} , Petra Korlević^{1,2} & Matthias Meyer¹

¹Department of Evolutionary Genetics, Max Planck Institute for Evolutionary Anthropology, Deutscher Platz 6, Leipzig, D-04103, Germany; ²Wellcome Genome Campus, European Bioinformatics Institute (EMBL-EBI), Hinxton, Cambridgeshire, CB10 1SD, UK; *Author for correspondence: Tel.: +49 341 3550 530; elena.essel@eva.mpg.de

BioTechniques 71: 383–386 (July 2021) 10.2144/btn-2021-0025

First draft submitted: 18 March 2021; Accepted for publication: 8 June 2021; Published online: 24 June 2021

ABSTRACT

Contamination with microbial and other exogenous DNA poses a significant challenge in the generation of genome-wide sequence data from ancient skeletal remains. Here we describe a method for separating ancient DNA into multiple fractions during DNA extraction by sequential temperature-controlled release of DNA into sodium phosphate buffer. An evaluation of the effectiveness of the method using a set of three ancient bones resulted in between 1.6- and 32-fold enrichment of endogenous DNA compared with regular DNA extraction. For two bones, the method outperformed previous methods of decontaminating ancient bones, including hypochlorite treatment, which resulted in near-complete destruction of DNA in the worst-preserved sample. This extraction method expands the spectrum of methods available for depleting contaminant DNA from ancient skeletal remains.

METHOD SUMMARY

The authors present a decontamination method for poorly preserved ancient bones that relies on a temperature-controlled sequential release of

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☐ DNA

1. A deoxyribonucleotide polymer that is the primary genetic material of all cells. Eukaryotic and prokaryotic organisms normally contain **DNA** in a double-stranded state, yet several important biological processes transiently involve single-stranded regions. **DNA**, which consists of a polysugar-phosphate backbone possessing projections of purines (adenine and guanine) and pyrimidines (thymine and cytosine), forms a double helix that is held together by hydrogen bonds between these purines and pyrimidines (adenine to thymine and guanine to cytosine).

☐ DNA-Directed DNA Polymerase

2. **DNA**-dependent **DNA** polymerases found in bacteria, animal and plant cells. During the replication process, these enzymes catalyze the addition of deoxyribonucleotide residues to the end of a **DNA** strand in the presence of **DNA** as template-primer. They also possess exonuclease activity and therefore function in **DNA** repair.
Year introduced: 1998/(1968)

☐ Human Papillomavirus DNA Tests

3. Methods for detecting or typing the **DNA** of an ALPHAPAPILLOMAVIRUS in biological tissues and fluids.
Year introduced: 2013

☐ DNA Transformation Competence

4. The ability of bacterial cells to take up exogenous **DNA** and be genetically transformed by it.
Year introduced: 2012

☐ Recombinational DNA Repair

5. Repair of **DNA** DAMAGE by exchange of **DNA** between matching sequences, usually between the allelic **DNA** (ALLELES) of sister chromatids.
Year introduced: 2012

☐ DNA End-Joining Repair

6. The repair of DOUBLE-STRAND **DNA** BREAKS by rejoining the broken ends of **DNA** to each other directly.
Year introduced: 2012

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A deoxyribonucleotide polymer that is the primary genetic material of all cells. Eukaryotic and prokaryotic organisms normally contain DNA in a double-stranded state, yet several important biological processes transiently involve single-stranded regions. DNA, which consists of a polysugar-phosphate backbone possessing projections of purines (adenine and guanine) and pyrimidines (thymine and cytosine), forms a double helix that is held together by hydrogen bonds between these purines and pyrimidines (adenine to thymine and guanine to cytosine).

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1

Cite Revitt-Mills SA, Wright EK, Vereker M, O'Flaherty C, McPherson F, Dawson C, van Oijen AM, Robinson A. *Microbiologyopen*. 2022 Oct;11(5):e1316. doi: 10.1002/mbo3.1316.

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- ☐ 2 **Ancient** DNA analysis from epoxy resin Biodur®-embedded **bones**.
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Consensus typing was achieved for about 91.7% of the markers in 10 out of 11 **ancient** skeletons, and the HlrisPlex-S webtool was then used to generate phenotypic predictions. Full predictions were

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► PLoS One. 2022 Oct 25;17(10):e0269348. doi: 10.1371/journal.pone.0269348. eCollection 2022.

The petrous bone contains high concentrations of osteocytes: One possible reason why ancient DNA is better preserved in this bone

Jamal Ibrahim¹, Vlad Brumfeld², Yoseph Addadi³, Sarah Rubin⁴, Steve Weiner⁵, Elisabetta Boaretto¹

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Abstract

The characterization of ancient DNA in fossil bones is providing invaluable genetics of past human and other animal populations. These studies have the discovery that ancient DNA is relatively well preserved in the petrous other bones. The reasons for this better preservation are however not well examined. The hypothesis that one reason for better DNA preservation in the petrous bone contains more DNA than other bones. We therefore determined osteocyte cells occluded inside lacunae within the petrous bone and compared to other bones from the domestic pig using high resolution microCT. We found concentrations of osteocyte lacunae in the inner layer of the pig petrous I chamber are about three times higher (around 95,000 lacunae per mm³) than temporal bone (around 28,000 lacunae per mm³), as well as the cortical bone (27,000 lacunae per mm³). The sizes and shapes of the lacuna in the inner layer are similar to those in the femur. We also show that the pig petrous bone osteocytes using a histological stain for DNA, therefore confirm and support previous observations of osteocytic lacunae concentrations in the petrous bone that one possible reason for better preservation of ancient DNA in the petrous bone is that this bone initially contains at least three times more DNA than other bones. Thus during diagenesis more DNA is likely to be preserved in the petrous bone compared to other bones.

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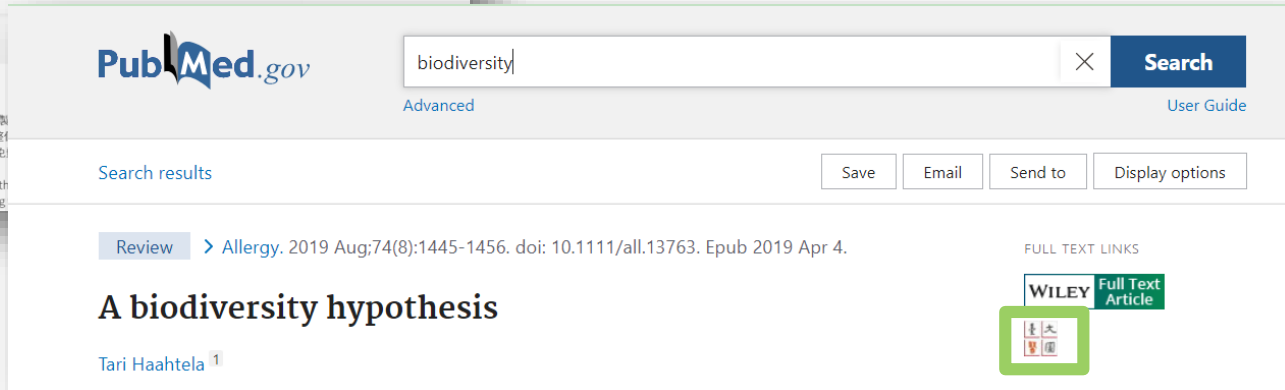
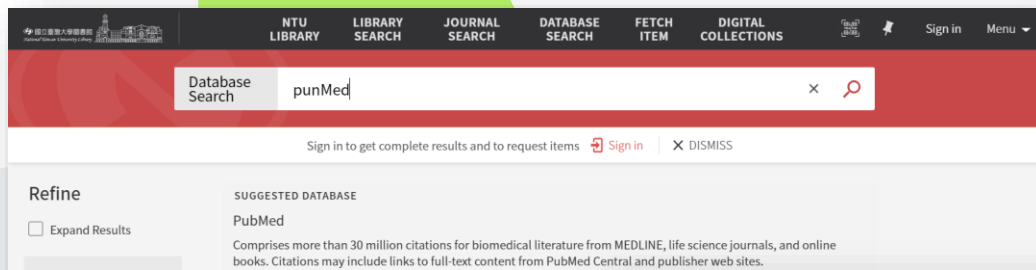
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- ☐ 1 Population dynamics of Baltic herring since the Viking Age revealed by ancient DNA and genomics.
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- ☐ 2 The petrous bone contains high concentrations of osteocytes: One possible reason why ancient DNA is better preserved in this bone.
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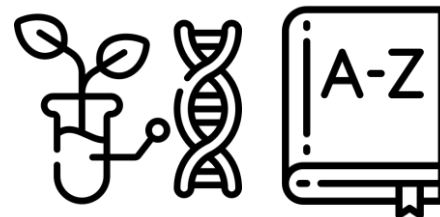
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2. Sorghum Association Panel whole-genome sequencing establishes cornerstone resource for dissecting genomic diversity



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Genome-wide association study of body conformation traits by whole genome sequencing in Dazhu black goats.

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[Sun RuiFan](#), author
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[Zhao ZhongQuan](#), author
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[Zhao YuanPing](#), author
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Source: [Animals](#) 23 February 2022 12(5).

Address: College of Animal Science and Technology, Southwest University, Chongqing 400715,

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¹

College of Animal Science and Technology, Southwest University, Chongqing 400715, China; gubw04@163.com (B.G.); sunruifan111@163.com (R.S.); 15881044561@163.com (X.F.); jpanzhang@live.com (J.Z.); zhaozhongquan@swu.edu.cn (Z.Z.)

²

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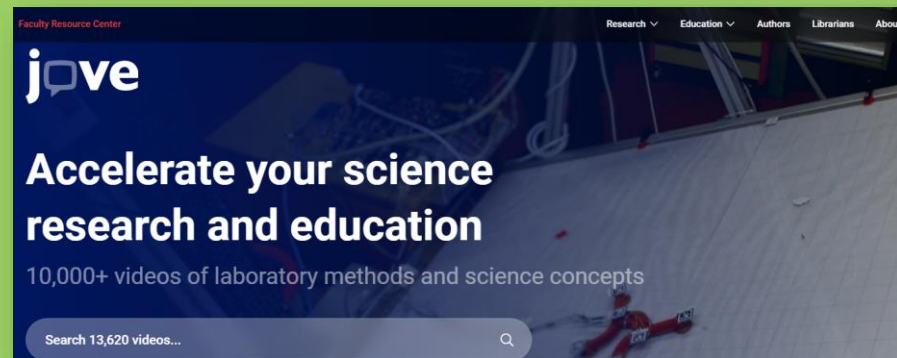
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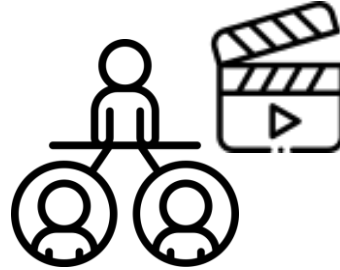
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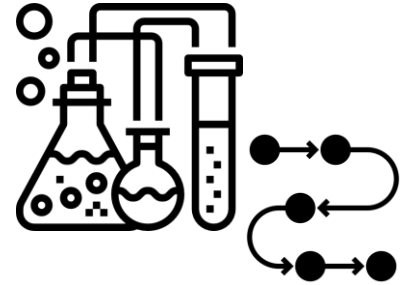
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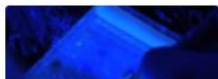
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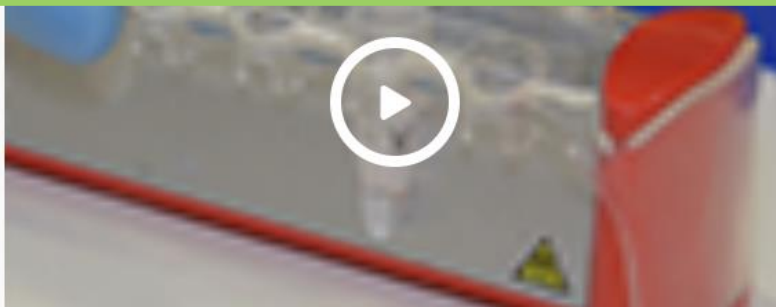
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DOI: [10.3791/55255-v](https://doi.org/10.3791/55255-v)

Jong Ghut Ashley Aw¹, Yang Shen¹, Niranjan Nagarajan¹, Yue Wan¹

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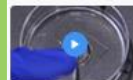
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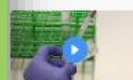
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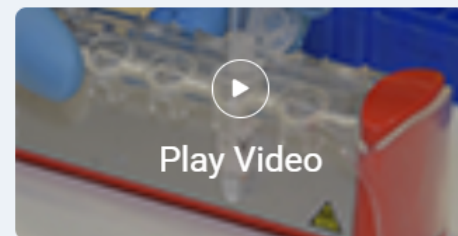
Published: May 24th, 2017 DOI: [10.3791/55255](https://doi.org/10.3791/55255)Jong Ghut Ashley Aw¹, Yang Shen¹, Niranjan Nagarajan¹, Yue Wan¹A*STAR¹

Summary

Here, we detail the method of Sequencing of Psoralen crosslinked, Ligated, and Selected Hybrids (SPLASH), which enables genome-wide mapping of intramolecular and intermolecular RNA-RNA interactions *in vivo*. SPLASH can be applied to study RNA interactomes of organisms including yeast, bacteria and humans.

Abstract

Knowing how RNAs interact with themselves and with others is key to understanding RNA based gene regulation in the cell. While examples of RNA-RNA interactions such as microRNA-mRNA interactions have been shown to regulate gene expression, the full extent to which RNA interactions occur in the cell is still unknown. Previous methods to study RNA interactions have primarily focused on subsets of RNAs that are interacting with a particular protein or RNA species. Here, we detail a method named Sequencing of Psoralen crosslinked, Ligated, and Selected Hybrids (SPLASH) that allows genome-wide capture of RNA interactions *in vivo* in an unbiased manner. SPLASH utilizes *in vivo* crosslinking, proximity ligation, and high



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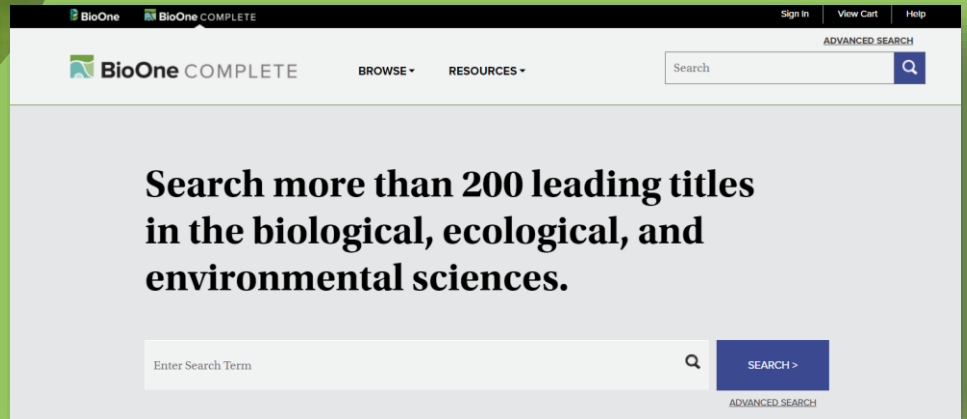
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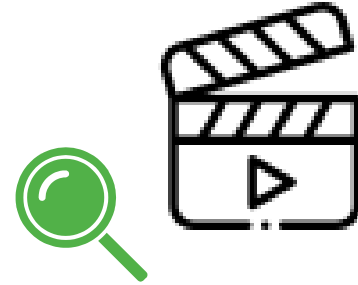
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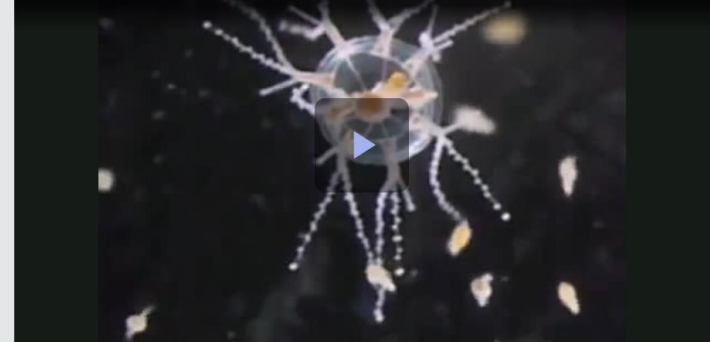


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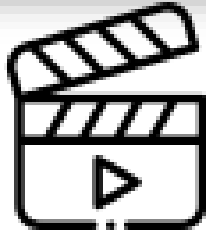
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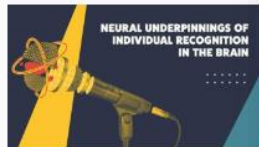


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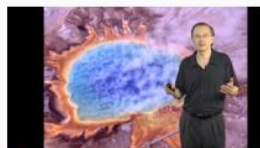


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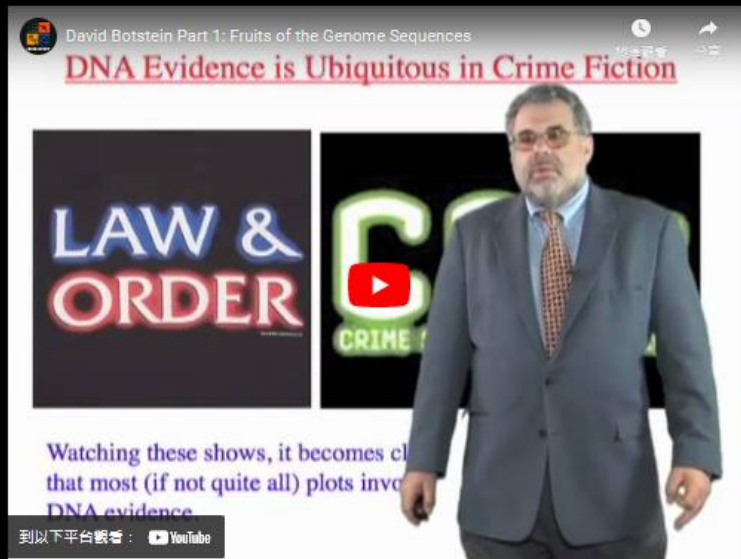


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Malay Night Heron

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Gorsachius melanolophus (Malay Night Heron) is a species of [birds](#) in the family [Ardeidae](#). They are found in [the palearctic](#), [australasia](#), and [the indo-malayan realm](#). They rely on [flight](#) to move around.

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geographic distribution includes Indian Ocean	habitat river	habitat freshwater habitat
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Known occurrences, collected specimens and observations of Malay Night-heron. [View this species on GBIF](#)

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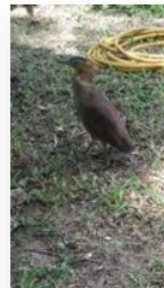
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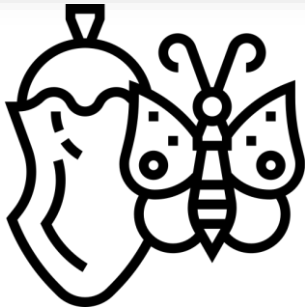
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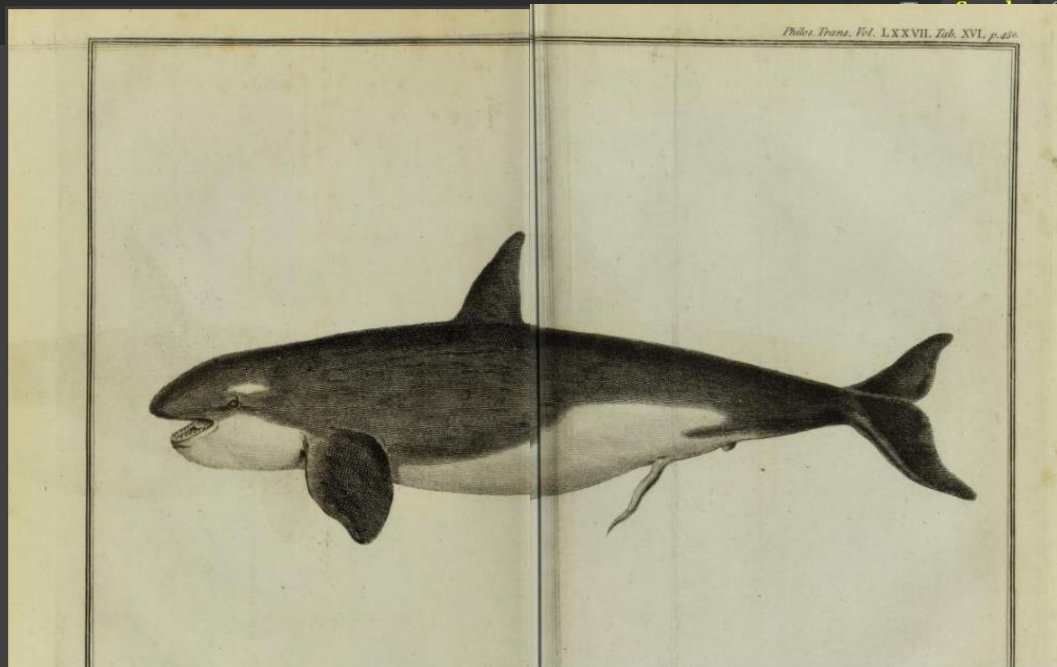
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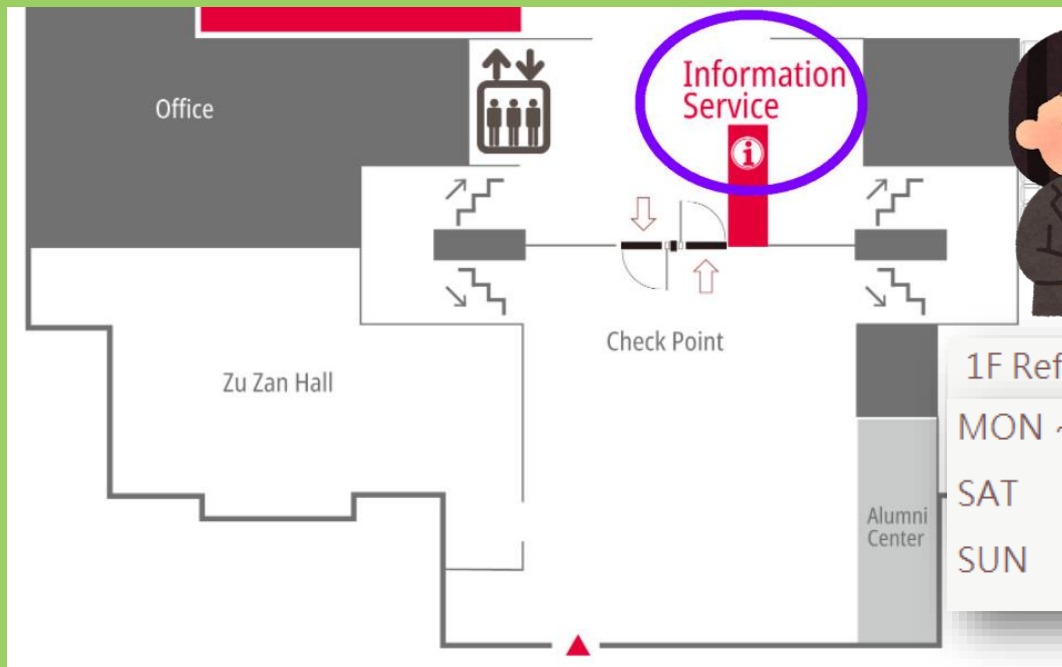
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