

2019

# 学科资源概览与利用



生命科学  
医学

清华大学图书馆 任奕

# 内容

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文献调研

生命科学&医学 资源介绍

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图书馆资源使用技巧

## 第二部分

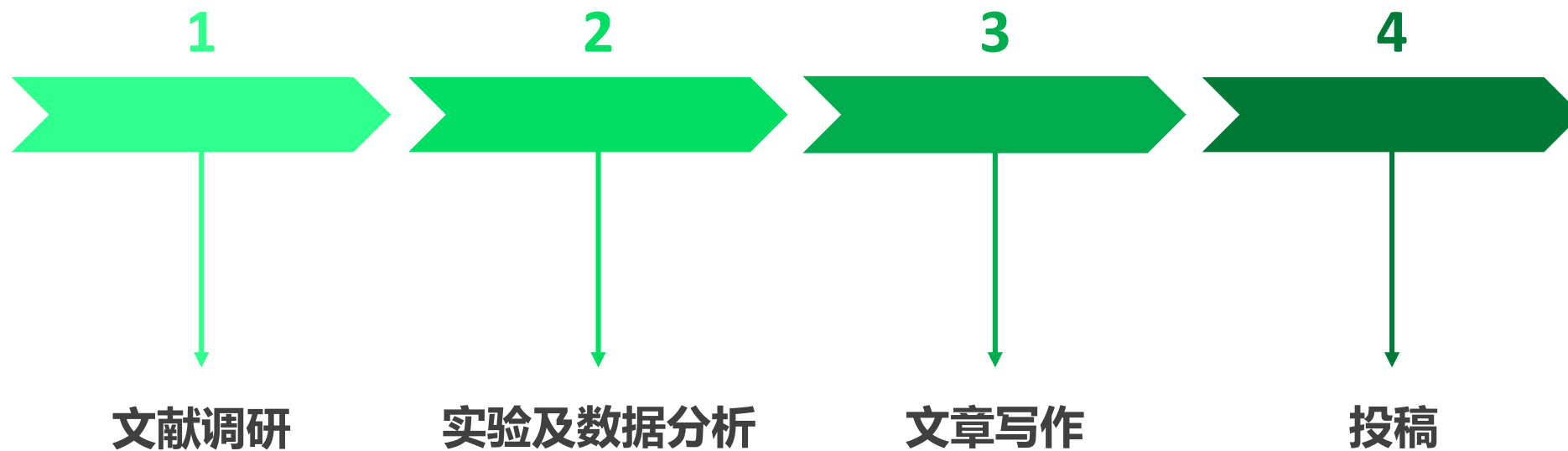
Pubmed数据库检索

NCBI简介

## 第四部分

交流和问题讨论

# 科研工作



# 文献调研

## 目的

- 了解课题的研究背景和研究进展，规避科研风险
- 学习相关研究方法和技术
- 提示研究新思路

# 文献调研

学术搜索引擎

 我的图书馆  我的著作引用情况  快讯  统计指标  设置

Google  
学术搜索

搜索所有网页  中文网页  简体中文网页

站在巨人的肩膀上

# 文献调研

## 学术搜索引擎



Baidu学术



讲座：Internet免费学术资源的检索与利用

# 文献调研

## 文献种类

- 期刊
- 会议论文
- 其他资料
- 图书
- 学位论文

# 文献调研

## 中文数据库

- 中国知网CNKI
- 万方数据知识服务平台



# 文献调研 — 期刊

## Pubmed

- 生物医学文献检索平台
- 生物医学类文献，也包括护理学和其他健康学科
- 数据主要来自MEDLINE数据库
- 提供摘要
- 可链接至免费全文数据库Pubmed central (PMC)或出版社网站

The screenshot shows the PubMed website interface. At the top, there is a navigation bar with 'NCBI Resources' and 'How To' menus, and a 'Sign in to NCBI' link. Below this is the PubMed logo and a search bar with a dropdown menu set to 'PubMed' and a 'Search' button. The main content area features a 'PubMed' banner with a description of the database and a 'PubMed Commons' section with social media icons and a featured comment. Below the banner are three columns of links: 'Using PubMed' (Quick Start Guide, Full Text Articles, FAQs, Tutorials, New and Noteworthy), 'PubMed Tools' (Mobile, Citation Matchers, Clinical Queries, Topic-Specific Queries), and 'More Resources' (MeSH Database, Journals, Clinical Trials, E-Utilities, LinkOut). At the bottom, there is a breadcrumb trail 'You are here: NCBI > Literature > PubMed' and a 'Write to the Help Desk' link. A footer section contains five columns of links: 'GETTING STARTED' (Education, Help Manual, Handbook, Tutorials, Submit Data), 'RESOURCES' (Chemicals & Bioassays, Data & Software, DNA & RNA, Domains & Structures, Genes & Expression, Genetics & Medicine), 'POPULAR' (PubMed, Bookshelf, PubMed Central, PubMed Health, BLAST, Nucleotide), 'FEATURED' (Genetic Testing Registry, PubMed Health, GenBank, Reference Sequences, Gene Expression Omnibus, Map Viewer), and 'NCBI INFORMATION' (About NCBI, Research at NCBI, NCBI News, NCBI FTP Site, NCBI on Facebook, NCBI on Twitter).

<http://www.ncbi.nlm.nih.gov/pubmed/>

# NCBI

## 美国国立生物技术信息中心

1988年，美国国立卫生研究院(NIH)下属的国家医学图书馆(NLM)创立，提供**免费网络资源**

- 数据库：Genbank, Pubmed, MMDB, SNP, OMIM , .....
- 电子书籍资料：Bookshelf
- 工具：BLAST, ORF Finder , .....

The screenshot shows the NCBI website homepage. At the top, there is a navigation bar with 'NCBI Resources' and 'How To' menus, and a 'Sign in to NCBI' link. Below this is a search bar with a dropdown menu set to 'All Databases' and a 'Search' button. The main content area is divided into several sections:

- NCBI Home**: A vertical menu on the left with links to 'Resource List (A-Z)', 'All Resources', 'Chemicals & Bioassays', 'Data & Software', 'DNA & RNA', 'Domains & Structures', 'Genes & Expression', 'Genetics & Medicine', 'Genomes & Maps', 'Homology', 'Literature', 'Proteins', 'Sequence Analysis', 'Taxonomy', 'Training & Tutorials', and 'Variation'.
- Welcome to NCBI**: A central section with the text 'The National Center for Biotechnology Information advances science and health by providing access to biomedical and genomic information.' and links for 'About the NCBI | Mission | Organization | NCBI News'.
- Submit**: 'Deposit data or manuscripts into NCBI databases' with an upload icon.
- Download**: 'Transfer NCBI data to your computer' with a download icon.
- Learn**: 'Find help documents, attend a class or watch a tutorial' with a book icon.
- Develop**: 'Use NCBI APIs and code libraries to build applications' with a code icon.
- Analyze**: 'Identify an NCBI tool for your data analysis task' with a network icon.
- Research**: 'Explore NCBI research and collaborative projects' with a microscope icon.
- Popular Resources**: A list of links including PubMed, Bookshelf, PubMed Central, PubMed Health, BLAST, Nucleotide, Genome, SNP, Gene, Protein, and PubChem.
- NCBI Announcements**: A section with news items, such as 'September 2nd NCBI Minute: "Introducing SmartBLAST, a Rapid Protein Identification Tool"' and 'GenBank release 209.0 is now available via FTP'.

<http://www.ncbi.nlm.nih.gov/>

# Medline

- 国际性综合**生物医学**信息书目数据库
- NLM创建并运营
- 数据时间范围 1950-2019
- 可使用Mesh主题词、主题、出版物名称等信息检索
- 提供摘要
- 可在Web of Science平台使用，**付费使用**

## Web of Science

Web of Science 将于格林威治标准时间 2019 年 10 月 9 日 11:00 至 2019 年 10 月 9 日 23:00 进行系统维护期间，Web of Science 可能无法正常使用。

选择数据库 MEDLINE®

[基本检索](#) [高级检索](#)

示例: "skin graft" reject\*

时间跨度  
所有年份 (1950 - 2019)

[更多设置](#)

# 文献调研 — 期刊

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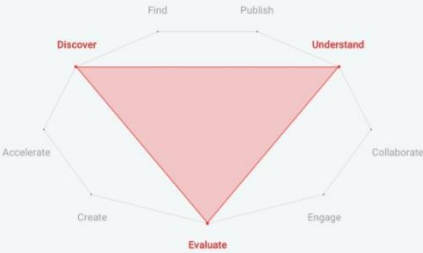
F1000Prime      F1000Workspace      Open Research platforms

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- 全球8000位专家挑选世界上最重要的医学及生物学论文，做出评论与建议阅读，并给以评分
- 快速“发现”、“写作”和“发表”为一体的综合服务系统。
- 三个部分“Prime”、“Workspace”和“Open Research platforms”

# 文献调研 — 学位论文

## 清华大学学位论文

- 清华大学1980年以来的所有公开学位论文
- 绝大多数有全文
- 加密文档，本机下载，本机阅读
- 纸版可到逸夫馆406



原文下载	申请打印
作者	王灿
学号	2004310127
培养单位	005 环境系
学位	博士
电子邮箱	wangcan04@mails.tsinghua.edu.cn
中文题名	紫外-生物过滤联合工艺处理氯苯气体的研究
英文题名	Study on a Combined Ultraviolet-Biofilter System for Gaseous Chlorobenzene Treatment
中文关键词	挥发性有机物;氯苯;紫外光降解;生物过滤;紫外-生物过滤联合工艺
英文关键词	Volatile organic compounds;Chlorobenzene;UV photodegradation;Biofiltration;UV-BF process
<p>随着社会和经济的发展,挥发性有机物(VOCs)的排放和污染问题日益严重。在各类VOCs控制技术中,生物过滤是一项重要的VOCs处理技术,如何提高生物过滤对难生物降解、高浓度VOCs的去除性能成为目前亟待解决的问题。本论文以典型难生物降解VOC(氯苯)为研究对象,提出了紫外-生物过滤联合工艺,考察了该工艺对氯苯的去除性能,进一步揭示了紫外单元对生物过滤单元的影响机理,并实现了对联合工艺运行性能的模拟和预测。系统考察了关键操作参数对单一生物过滤工艺和紫外工艺对氯苯去除性能的影响,获得了单一工艺在不同条件下的氯苯去除特性。通过三维荧光光谱、离子色谱和GC-MS等方法发现,氯苯紫外光降解的主要产物包括苯酚、氯酚等酚类物质和巴比、了醇、吡啶等杂环物质。同时,紫外光降解过程还产生了高浓度臭氧(O<sub>3</sub>)。通过500h的连续运行实验,比较</p>	

[http://166.111.120.42/Thesis/Thesis/ThesisSearch/Search\\_DataInit.aspx?dbid=7&Code=etdqh](http://166.111.120.42/Thesis/Thesis/ThesisSearch/Search_DataInit.aspx?dbid=7&Code=etdqh)

# 文献调研 — 学位论文

## 中国知网 — 博硕士学位论文

- 1984年至今的300余万篇博硕士学位论文
- 可看全文
- 论文来自全国各高校、研究机构

The screenshot displays the CNKI website interface for searching dissertations. The top navigation bar includes the CNKI logo and the text '博硕士' (Dissertation) with a dropdown menu. Below the navigation bar, there are several tabs for search options: '检索' (Search), '高级检索' (Advanced Search), '专业检索' (Professional Search), '科研基金检索' (Research Fund Search), and '句子检索' (Sentence Search). The main search area contains a search condition input field with a dropdown menu for '主题' (Topic) and a '并含' (And Contains) dropdown menu. Below the search condition input field, there are dropdown menus for '从' (From) and '到' (To) years, and a dropdown menu for '优秀论文级别' (Excellent Paper Level). A blue '检索' (Search) button is located at the bottom right of the search area. On the left side of the page, there is a '文献分类目录' (Literature Classification Directory) section with a '选择学科领域' (Select Discipline Area) dropdown menu and a '清除' (Clear) button. Below this, there is a list of discipline areas with checkboxes: '基础科学' (Basic Science), '工程科技 I 辑' (Engineering Technology I), '工程科技 II 辑' (Engineering Technology II), '农业科技' (Agriculture), '医药卫生科技' (Medicine and Health Science), '哲学与人文科学' (Philosophy and Humanities), '社会科学 I 辑' (Social Science I), '社会科学 II 辑' (Social Science II), '信息技术' (Information Technology), and '经济与管理科学' (Economics and Management Science). Below the list of discipline areas, there is a '检索历史' (Search History) section with a dropdown menu and a list of search history items: '清华大学' (Tsinghua University) and '干旭' (Gan Xu). On the right side of the page, there is a '数据库介绍信息' (Database Introduction Information) section with a blue circular icon. The section includes a '简介' (Introduction) paragraph, an '出版内容' (Publication Content) paragraph, an '文献来源' (Literature Source) paragraph, an '专辑专题' (Special Issue) paragraph, an '收录年限' (Collection Period) paragraph, a '产品形式' (Product Form) paragraph, and an '出版时间' (Publication Time) paragraph.

**数据库介绍信息:**

**简介:** 是目前国内相关资源最完备、高质量、连续动态更新的中国优秀博硕士学位论文全文数据库。目前,累积博硕士学位论文全文数据库3,100,667篇。

**出版内容:** 覆盖基础科学、工程技术、农业、医学、哲学、人文、社会科学等各个领域。

**文献来源:** 全国 433家培养单位的博士学位论文和711 家硕士培养单位的优秀硕士学位论文。

**专辑专题:** 产品分为十大专辑:基础科学、工程科技 I、工程科技 II、农业科技、医药卫生科技、哲学与人文科学、社会科学 I、社会科学 II、信息技术、经济与管理科学。十大专辑下分为168个专题。

**收录年限:** 从1984年至今的博硕士学位论文。

**产品形式:** WEB版(网上包库)、镜像站版、光盘版、流量计费。

**出版时间:** 1、日出版:中心网站版、网络镜像版,每个工作日出版,法定节假日除外。  
2、月出版:网络镜像版、光盘版,每月10日出版。

<http://epub.cnki.net/kns/brief/result.aspx?dbPrefix=CDMD>

# 文献调研 — 学位论文

## ProQuest Dissertations and Theses

- 世界上最大最广泛使用的学位论文数据库
- 欧美1000余所大学的200万篇学位论文
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- 欢迎荐购

### Dissertations and Theses A&I 全球博硕论文

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



Full text

[Search tips](#)

#### Search databases (3)

[ProQuest Dissertations & Theses A&I Search](#)

This database is the world's most comprehensive collection of dissertations and theses from around the world, spanning from 1743 to the present day.

[ProQuest Dissertations and Theses A&I: The Humanities and Social Sciences Collection Search](#)



This database is the world's most comprehensive collection of dissertations and theses on humanities and social sciences.

[ProQuest Dissertations and Theses A&I: The Sciences and Engineering Collection Search](#)



This database is the world's most comprehensive collection of dissertations and theses on sciences and engineering.

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- Discover answers to common questions at [ProQuest's Product Support Center](#).
- [Contact Support](#) if you need further assistance.

#### Search tip

By default, we will look for documents with all the terms entered.

Use "quotation marks" to search for exact phrases.  
Separate terms with OR to find any of the words entered.

通过ProQuest学位论文全文检索平台获取全文

<http://pqdt.calis.edu.cn/> 或 <http://pqdt.lib.sjtu.edu.cn/>

# 文献调研 — 图书

## 纸本图书



图书馆 检索首页 数据库 电子期刊 原文查找

检索任意项

全部纸本资源



高级检索

推荐使用Chrome或者IE11浏览器 (“水木搜索”页面优化调查表)

水木搜索是一站式的文献资源检索系统，帮助用户快速、高效地从海量学术资源中查找并获取所需信息。支持匿名使用。

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- 如何登录“我的图书馆”
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- 闭架库提供预约取书服务
- 关注微信并取流通通知

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外文图书借阅区





# 文献调研 — 图书

## 电子图书

- Wiley Online Library  
60大类 21000+
- Elsevier ScienceDirect  
2015- 25 book series 20 reference works

- Ebook central



- 超星

.....

Wiley Online Library



Access by Tsinghua University

Search

Publications 1-20 of 2,202 publications

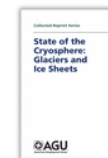
Applied Filters Clear all X

LIFE SCIENCES X Books X

Filters

Alphanumeric ^

0-9 A B C D E  
F G H I J K  
L M N O P Q  
R S T U V W  
X Y Z

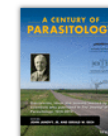


Book

2009, State of the Cryosphere: Glaciers and Ice Sheets

First published: 1 January 2009

About this Book V



Book Full Access

A Century of Parasitology: Discoveries of scientists who published in the Journal of Parasitology

First published: 5 February 2016

About this Book V

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水木搜索是一站式的文献资源检索系统，帮助用户快速、高效地从海量学术资源中查找并获取所需信息。支持匿名使用。

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- 闭架库提供预约取书服务
- 关注微信和微博通知

# 文献调研 — 实验方法

视频 JoVE Journal of Visualized Experiments

- 以视频方式直观展现研究过程和成果，可下载相应的PDF文件

- Video Journal

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- Science Education

Basic Biology

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Chemistry	Developmental Biology	Engineering	Environment	Genetics
Immunology and Infection	Medicine	Neuroscience	In-Press	Methods Collections

# 文献调研 — 实验方法

## Cold Spring Harbor Protocols

- 美国冷泉港实验室出版
- 月刊，Pubmed索引
- 每项实验方案均按步详解，对发现的问题及解决问题的建议进行了清楚的论述

### Direct Cyanine-dUTP Labeling of RNA for Microarrays

Oliver Rando

This is the simplest method to label RNA for use in expression analysis. RNA is reverse-transcribed using both oligo(dT) and random hexamers as primers. The random hexamers improve overall efficiency of labeling, especially at the 5' end of the RNA. Fluorescently labeled dUTP is incorporated into the cDNA. After reverse transcription, the RNA is degraded, and the labeled cDNA is purified from unincorporated Cy dyes. Finally, samples labeled with Cy3 and Cy5 dyes are mixed and combined with blocking nucleotides and used for hybridization.

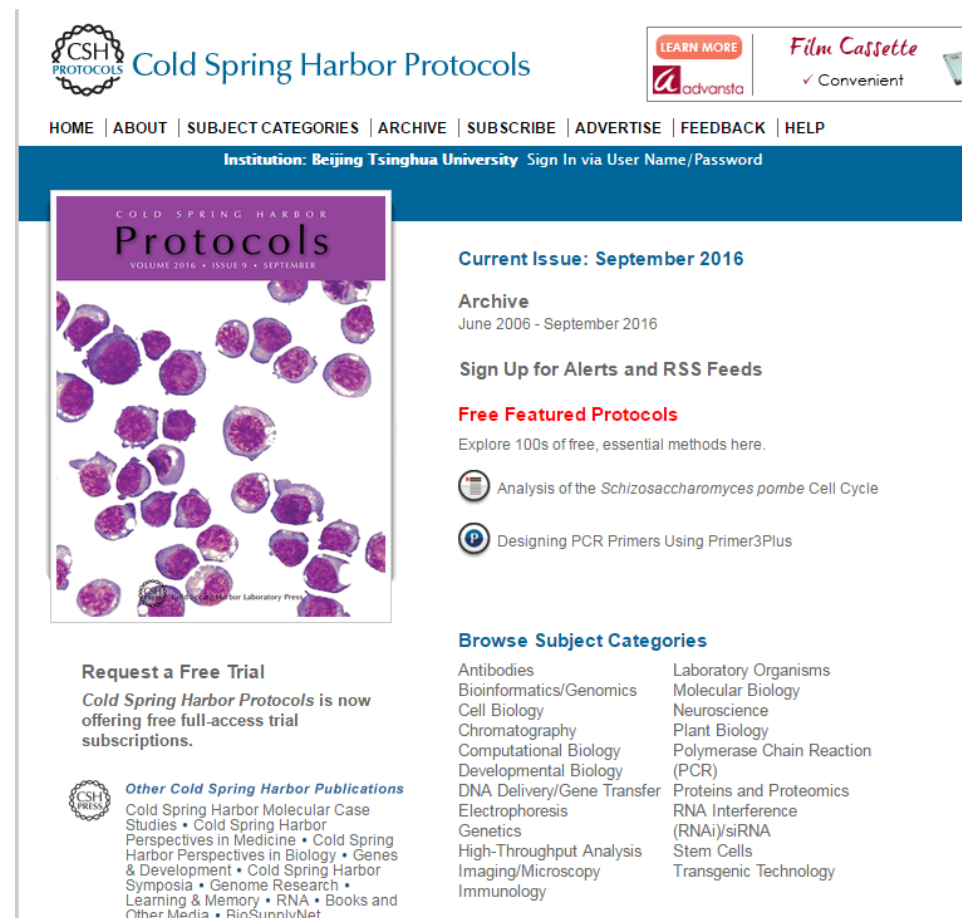
#### MATERIALS

It is essential that you consult the appropriate Material Safety Data Sheets and your institution's Environmental Health and Safety Office for proper handling of equipment and hazardous materials used in this protocol.

RECIPES: Please see the end of this protocol for recipes indicated by <R>. Additional recipes can be found online at <http://cshprotocols.cshlp.org/site/recipes>.

#### Reagents

Cy3-dUTP or Cy5-dUTP (GE Healthcare Life Sciences)  
DEPC-treated H<sub>2</sub>O  
HCl (0.1 N)  
NaOH (0.1 N)  
Oligo(dT) (2 µg/µL)



The screenshot shows the Cold Spring Harbor Protocols website. At the top, there is a navigation bar with links for HOME, ABOUT, SUBJECT CATEGORIES, ARCHIVE, SUBSCRIBE, ADVERTISE, FEEDBACK, and HELP. Below this is a blue banner with the text "Institution: Beijing Tsinghua University Sign In via User Name/Password". The main content area features a large image of the journal cover for "Cold Spring Harbor Protocols" (Volume 2016, Issue 9, September). To the right of the cover, there is a section for "Current Issue: September 2016" with an "Archive" link for June 2006 - September 2016. Below this is a "Sign Up for Alerts and RSS Feeds" section and a "Free Featured Protocols" section with a link to "Explore 100s of free, essential methods here." Two featured protocols are listed: "Analysis of the Schizosaccharomyces pombe Cell Cycle" and "Designing PCR Primers Using Primer3Plus". At the bottom, there is a "Request a Free Trial" section and a "Browse Subject Categories" section with a grid of categories including Antibodies, Bioinformatics/Genomics, Cell Biology, Chromatography, Computational Biology, Developmental Biology, DNA Delivery/Gene Transfer, Electrophoresis, Genetics, High-Throughput Analysis, Imaging/Microscopy, Immunology, Laboratory Organisms, Molecular Biology, Neuroscience, Plant Biology, Polymerase Chain Reaction (PCR), Proteins and Proteomics, RNA Interference (RNAi)/siRNA, Stem Cells, and Transgenic Technology.

<http://cshprotocols.cshlp.org/>

# 文献调研 — 实验方法

## Springer Protocols

- 全球最大、引用量最高的实验室指南数据库
- 包含实验室指南28,000余条，每周更新内容
- 生物医学的15个方向
- Pubmed索引

The screenshot shows the Springer Protocols website homepage. At the top, there is a navigation bar with the Springer Protocols logo, a search bar, and links for ABOUT US, RSS, and HELP. Below the navigation bar, there is a welcome message and a sign-in/register prompt. The main content area is divided into several sections: Mobile, Upload a Protocol, Protocol Alert, Video Protocols, Comments, Favorites, and RSS Feeds. A central search box is prominently displayed. To the right, there is a 'Browse by Subject' section listing various scientific fields. Below that, there is a 'Most Popular Protocols' section with a list of articles and a 'More...' link. At the bottom, there is a 'New Protocols' section.

Springer Protocols

ABOUT US | RSS | HELP

Springer

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Welcome. Sign in [here](#). New user? Register [here](#).

**Mobile**  
SpringerProtocols goes mobile! Learn about our new mobile site, available now.

**Upload a Protocol**  
Upload your own protocols for personal use.

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Receive e-mail notifications about new content on SpringerProtocols.

**Video Protocols**  
View our video protocols.

**Comments**  
Read comments by other users and add your own.

**Favorites**  
Save your favorite protocols to your My Protocols area.

**RSS**  
RSS Feeds

**Search Protocols**

Advanced Search

**Browse by Subject**

Biochemistry	Bioinformatics
Biotechnology	Cancer Research
Cell Biology	Genetics/Genomics
Imaging/Radiology	Immunology
Infectious Diseases	Microbiology
Molecular Medicine	Neuroscience
Pharmacology/Toxicology	Plant Sciences
Protein Science	

**Most Popular Protocols**

- Streptozotocin, Type I Diabetes Severity and Bone
- Critical Appraisal of the MTT Assay in the Presence of ...
- Comparison of Enzymatic and Non-Enzymatic Means of Diss...
- A Practical Guide to Rodent Islet Isolation and Assessm...
- A Framework for White Blood Cell Segmentation in Micros...

[More...](#)

**New Protocols**

<http://www.springerprotocols.com/index.vm>

# 文献调研 — 实验方法

## Wiley Current Protocols

- 该指南将简洁的介绍和详细的说明结合在一起，使收纳的实验步骤清晰、具体，每个步骤又包含了注解和评论，并给出了临界参数和解决问题的小技巧。
- 我校购买了10个主题
- Pubmed索引

The screenshot shows the Wiley Current Protocols website. At the top left is the Wiley logo. The main header features the 'CURRENT PROTOCOLS' logo with the tagline 'The Fine Art of Experimentation'. To the right, there are links for 'About Wiley', 'View Related Sites', 'Wiley Online Library', and 'Subscribe Today'. A banner for 'CYTO UNIVERSITY' is displayed, advertising 'On-Demand, Peer-Reviewed Cytometry Education. Anytime. Anywhere.' with the ISAC logo. Below the banner is a search bar and navigation tabs for 'HOME', 'CATEGORIES', 'TOOLS', and 'TITLES'. The 'Current Protocols Categories' section lists various fields with 'SHOW SUB-CATEGORY' links: Bioinformatics, Cell Biology, Cell Culture, Chemical Biology, Cytometry, Gene Expression, and Genetics and Genomics. On the right side, there are sections for 'WEBSITE RESOURCES' (including About Current Protocols, Email Alerts, Newsletters, Author Services, Videos, and CP Webinars) and 'MOST POPULAR TOOLS' (including Units of Measurement Conversion Tool, G-Force/RPM Conversion Tool, and Common Laboratory Recipes Calculator). A YouTube follow button for @currentprotocol is also visible.

<http://www.currentprotocols.com/>

# 文献调研 — 医疗决策

## UpToDate临床顾问

- 实时更新的基于循证医学的临床决策支持系统
- 所有的专题都由来自全球的著名临床医生以教科书的形式撰写，并经过严格的同行评议，以保证内容质量
- 内容涵盖了疾病的各个方面，如病因、发病机制、临床表现、诊断、治疗和预后等
- 账号、网页两种使用方式

## UpToDate 临床顾问



专题分类 ▾ 诊疗实践更新 重要更新 患者教育

显示与 Influenza 相关的结果

所有专题 成人 儿童 患者 图表

### 成人季节性流感的治疗

[抗病毒药物的选择](#)

[总结与推荐](#)

### 成人季节性流感的临床表现

... aureus)是社区获得性肺炎越来越常见的病因，也是流感并发细菌性肺炎的第二常见病原体(19%)；此外，流感还可能并发流感嗜血杆菌(Haemophilus influenzae)性肺炎。对比流感流行年份与非流感流行年份这些病原体的感染率，结果发现只有金黄色葡萄球菌<119>的感染率显著上升(19%...

[无并发症的流感](#)

[总结](#)

### 儿童季节性流感的临床特征和诊断

... RT-PCR)或快速分子分析]。不能进行分子分析时可采用抗原检测(如，直接或间接免疫荧光测定，传统的流感快速诊断性试验(rapid influenza diagnostic test, RIDT)]。尽管数字化免疫分析(digital immunoassay, DIA)的敏...

[临床表现](#)

[临床疑诊](#)

[总结与推荐](#)

### 流行性感冒的流行病学

...自2011年以来，美国CDC已报告超过420例感染甲型H3N2变异型(H3N2v)流感病毒的病例，由猪源性甲型H3N2流感病毒与2009年大流行中甲型H1N1流感病毒的重配引起，其中多数病例发生在2012年7月以后。H3N2v流感病毒包含2009年大流行中甲型H1N1流感病毒的M...

[H3N2变异型流感](#)

...



# 文献调研 — 医疗决策

## BMJ Best Practice

- 上千种的临床疾病的诊断方法，包括临床鉴别诊断、实验室检查、病史检查、诊断步骤和方法等。
- 数千项的国际治疗指南和诊断标准的全文内容
- 大量的彩色病例图片和图像
- 国际权威的药物处方数据库，提供最新的药物副反应和多种药物相互作用的最新证据

**BMJ** Best Practice  
临床实践

Search conditions, symptoms...

Recent updates Specialties Calculators Procedural videos Evidence Drugs

### Influenza infection

OVERVIEW	THEORY	DIAGNOSIS	MANAGEMENT	FOLLOW UP	RESOURCES
<a href="#">Summary</a>	<a href="#">Epidemiology</a>	<a href="#">Approach</a>	<a href="#">Approach</a>	<a href="#">Monitoring</a>	<a href="#">Guidelines</a>
	<a href="#">Aetiology</a>	<a href="#">History and exam</a>	<a href="#">Treatment algorithm</a>	<a href="#">Complications</a>	<a href="#">References</a>
	<a href="#">Case history</a>	<a href="#">Investigations</a>	<a href="#">Emerging</a>	<a href="#">Prognosis</a>	<a href="#">Evidence</a>
		<a href="#">Differentials</a>	<a href="#">Prevention</a>		
			<a href="#">Patient discussions</a>		

Last reviewed: August 2018 Last updated: June 2018

### Summary

Characterised by upper and lower respiratory tract symptoms of rhinorrhoea, cough, fever, chills, headache, and myalgia...

[READ MORE](#)

### Definition

Acute respiratory tract infection typically caused by seasonal influenza A or B virus. The virus is

### Differentials

- Bacterial pneumonia
- Respiratory syncytial virus (RSV) infection
- Parainfluenza virus infection (PIV)

[Full details](#)

### Guidelines

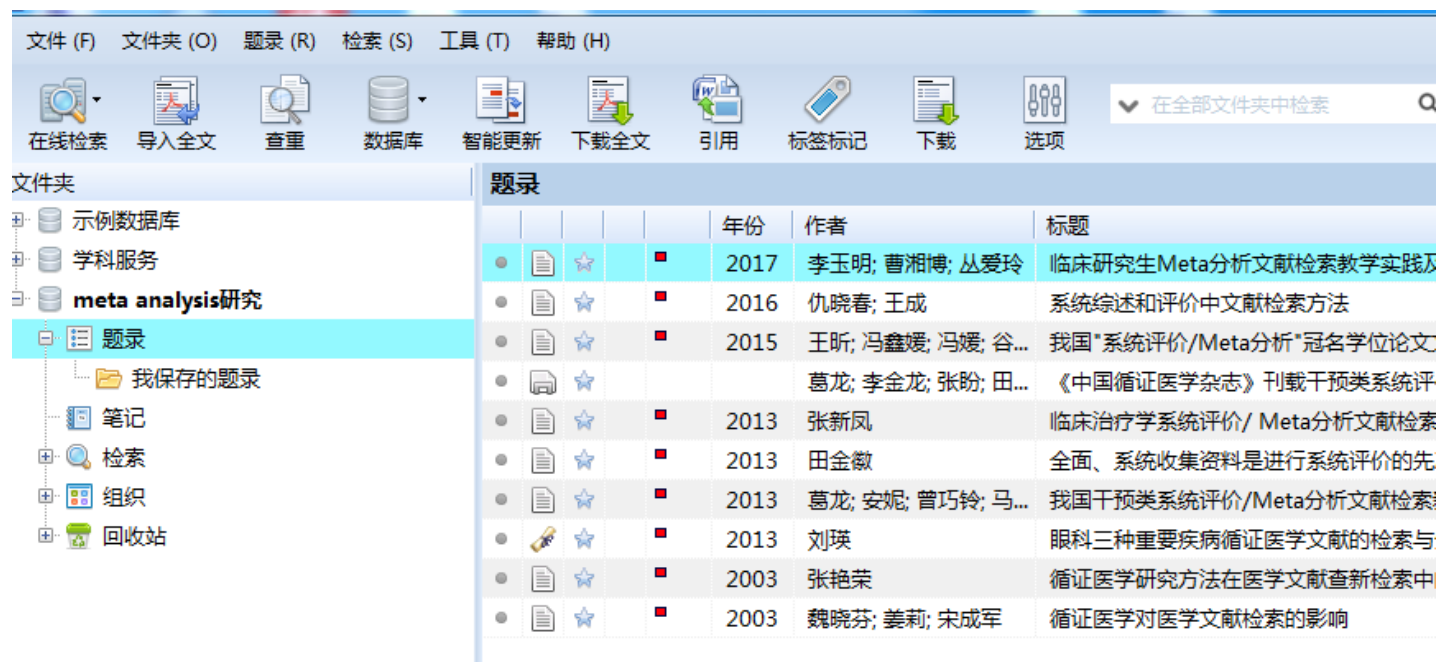
Recommended composition of influenza virus vaccines for use in the 2018-2019

<https://bestpractice.bmj.com/>

# 文献管理 — 软件

## NoteExpress

- 个人文献管理：分类，排序，检索，编辑
- 对中文使用支持较好
- 按出版要求快速生成参考文献
- 笔记功能
- 无Mac版本的安装软件
- “图书馆主页—数据库导航页面” 下载



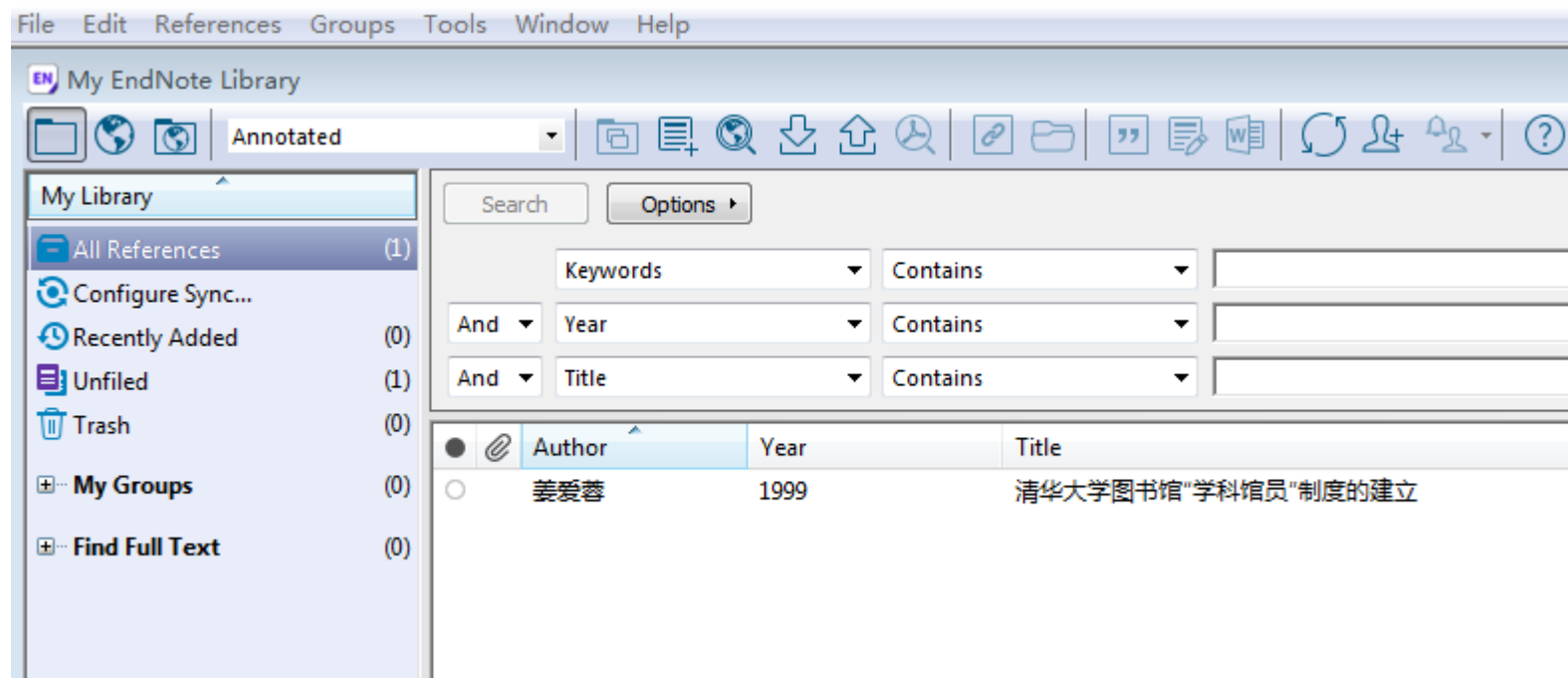
讲座：个人文献管理软件NoteExpress的功能与使用



# 文献管理 — 软件

## Endnote

- 个人文献管理
- 在线检索和下载题录信息及全文
- 按出版要求快速生成参考文献
- “信息化服务平台” 下载
- Win版和Mac版



讲座：个人文献管理软件EndNote的功能与使用

# 实验及数据分析

## 软件

- 核酸引物设计：Primer Premier, Oligo, Primer3 ...
- 序列分析：Vector NTI, Omiga, DNAMAN ...
- 蛋白序列比对：Cluster X
- 生物统计学分析: SPSS , SAS ...
- 蛋白质晶体结构：PyMOL

讲座：SPSS从入门到深度应用

# 文章写作

## 软件

- 数据可视化，作图：Photoshop, Excel, Origin, Matlab...
- 文献管理：Endnote, NoteExpress ...
- 论文撰写：Word

讲座：如何使用Word制作长文档  
Excel初级操作与应用  
认识与利用个人文献管理软件 Endnote or NoteExpress

# 投稿

## 考虑因素

- 期刊研究方向：稿件应符合期刊研究方向
- 投稿周期
- 接收难易程度
- 影响因子：

JCR ( Journal Citation Reports ) 数据库，提供历年SCI期刊的影响因子，数据更新至2017年  
中科院JCR分区，订阅公众号即可每天查询5种期刊的最新数据

# JCR -- Journal Citation Reports

- Web of Science平台查询
- 每年6月权威发布上一年度SCI/SSCI期刊的IF ( Impact Factor )
- 可查询期刊的“分类” “影响因子” “类别内排名” “分区” 等信息
- 可整类期刊同时下载
- 个别SCI期刊查询不到的原因：  
新入期刊；被镇压期刊

方法：通过“校外访问”在Web of Science平台完成个人账号的注册，每次使用JCR时登陆个人账号即可。

The screenshot displays the InCites Journal Citation Reports interface. At the top, the 'LANCET' journal profile is shown with its ISSN, eISSN, and publisher information. The 'CATEGORIES' section is highlighted with a red box, showing 'MEDICINE, GENERAL & INTERNAL - SCIE'. Below this, a 'Journal Impact Factor' graph shows the 2017 JIF of 53.254. On the right, a table titled 'Journals By Rank' lists the top 5 journals ranked by impact factor.

Select	Rank	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
<input type="checkbox"/>	1	NEW ENGLAND JOURNAL OF MEDICINE	332,830	79.258	0.70200
<input type="checkbox"/>	2	LANCET	233,269	53.254	0.43574
<input type="checkbox"/>	3	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	148,774	47.661	0.29996
<input type="checkbox"/>	4	BMJ-British Medical Journal	109,303	23.259	0.15032
<input type="checkbox"/>	5	JAMA Internal Medicine	11,840	19.989	0.07628

下载所有期刊数据

# 其他数据库和网络资源

## 化合物化学反应数据库

- SciFinder : 综合性化学数据库 需注册个人账号  
<http://www.lib.tsinghua.edu.cn/database/scifinder.htm>
- Reaxys : 化学数值与事实数据库  
<https://www.reaxys.com/reaxys/secured/search.do>

# 其他数据库和网络资源

## 医学网络资源

- 医享网：病例分享

<http://www.yx129.com/>

# 其他数据库和网络资源

## 药学网络资源

- 国家食品药品监督管理局药品审评中心  
<http://www.cde.org.cn/drugInfo.do?method=init>
- 中国医药信息网  
<http://www.cpi.gov.cn/publish/default/>
- FDA Drug Approvals and Databases  
<http://www.fda.gov/Drugs/InformationOnDrugs/default.htm>
- 药物在线  
<http://www.drugfuture.com>
- ClinicalTrials 美国临床试验登记  
<https://clinicaltrials.gov/ct2/search>



# 其他数据库和网络资源

## 论坛和公司

- 论坛：丁香园，小木虫，生物谷...
- 科技服务类公司：临床分科室资讯，在线工具，投稿指南，讨论社区，论文服务等
- ● ● ● ●

# 内容

## 第一部分

如何开展科研工作  
医学资源介绍

## 第三部分

图书馆资源使用技巧

## 第二部分

Pubmed数据库检索  
NCBI简介

## 第四部分

交流和问题讨论

# Pubmed检索

- 基本检索
- 高级检索
- Mesh词表检索

# 基本检索

The screenshot shows the PubMed search page. At the top, there are links for 'NCBI Resources' and 'How To'. The search bar contains the text 'pre-mrna splicing' and a red box highlights the input area with the Chinese text '检索词输入'. A dropdown menu is open, listing various search suggestions related to pre-mRNA splicing. Below the search bar, there are sections for 'Using PubMed' with links to 'PubMed Quick Start Guide', 'Full Text Articles', 'PubMed FAQs', 'PubMed Tutorials', and 'New and Noteworthy'. To the right, there is a 'PubMed COMMONS' section with social media icons and a 'Featured comment' from Sep 10. Below that is a 'More Resources' section with links to 'MeSH Database', 'Journals in NCBI Databases', 'Clinical Trials', 'E-Utilities (API)', and 'LinkOut'.

NCBI Resources How To Sign in to NCBI

PubMed.gov US National Library of Medicine National Institutes of Health PubMed

pre-mrna splicing 检索词输入

pre-mrna splicing

- structural basis of pre-mrna splicing
- alternative pre-mrna splicing
- epigenetics in alternative pre-mrna splicing
- mechanisms and regulation of alternative pre-mrna splicing
- pre-mrna splicing in disease and therapeutics
- pre-mrna splicing review
- neuronal regulation of alternative pre-mrna splicing
- rna catalyses nuclear pre-mrna splicing
- exon and intron definition in pre-mrna splicing
- identification of small molecule inhibitors of pre-mrna splicing
- pre-mrna splicing retinitis

Turn off

Using PubMed

- PubMed Quick Start Guide
- Full Text Articles
- PubMed FAQs
- PubMed Tutorials
- New and Noteworthy

PubMed COMMONS

Featured comment - Sep 10

Finding cellular origins of fibrosis: Journal club @NephJC sums up discussion with authors & others. [1.usa.gov/1N4rYDS](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1144444/)

More Resources

- MeSH Database
- Journals in NCBI Databases
- Clinical Trials
- E-Utilities (API)
- LinkOut

检索内容：mRNA 前体的剪切问题  
pre-mRNA splicing

# 基本检索

- 单个词或词组：pre-mRNA splicing, spliceosome
- 短句：Structural basis of pre-mRNA splicing
- 作者姓名：Shi Yigong 全拼  
Shi Y 缩写
- 期刊名称：Science
- 检索式：pre-mRNA splicing **AND** spliceosome

# 基本检索 tips

## 1.运用逻辑运算组合关键词：

AND(与，交集) OR (或，并集) NOT (非，补集)

括号改变运算优先级

## 2.使用截词符

\*可代表0到多个字符

archaea\*: archaea, archaea**bacteria**, archaea**l**, archaea '.....

## 3.使用引号

精确查找，专有名词

“RNA splicing”

## 4.限定检索字段

关键词只在某些位置出现

Science[journal] , RNA splicing[TI]

# 高级检索

## PubMed Advanced Search Builder

YouTube Tutorial

(pre-mrna splicing[Title/Abstract]) AND "nature"[Journal] 检索式显示

[Edit](#)

[Clear](#)

Builder

检索式构造

AND AND Search History Search #8

Title/Abstract Affiliation All Fields Author Author - Corporate Author - First Author - Full Author - Identifier Author - Last Book Date - Completion Date - Create Date - Entrez Date - MeSH Date - Modification Date - Publication EC/RN Number Editor Filter Grant Number ISBN

pre-mrna splicing

pre-mrna splicing (3055)  
pre-mrna splicing activities (4)  
pre-mrna splicing activity (16)  
pre-mrna splicing apparatus (3)  
pre-mrna splicing catalysis (4)  
pre-mrna splicing complex (10)  
pre-mrna splicing complexes (5)  
pre-mrna splicing components (7)  
pre-mrna splicing defect (9)  
pre-mrna splicing defects (25)

Show index list Show index list Show index list

索引列表

Download history Clear history

Query	Items found	Time
pre-mrna splicing[Title/Abstract]) AND "nature"[Journal]	29	01:53:28

选定字段，逻辑运算符，构造检索式

# 高级检索

NCBI Resources How To Sign in to NCBI

PubMed Home More Resources Help

### PubMed Advanced Search Builder

[YouTube Tutorial](#)

(#31 AND #32)

[Edit](#) [Clear](#)

**Builder**

Recent Query  -

AND All Fields  + [Show index list](#)

[Search](#) or [Add to history](#)

---

**History** [Download history](#) [Clear history](#)

Search	Add to builder	Query	Items found	Time
<a href="#">#31</a>	<a href="#">Add</a>	Search <b>shi yigong</b>	<a href="#">129</a>	03:49:36
<a href="#">#30</a>	<a href="#">Add</a>	Search <b>spliceosome</b>	<a href="#">3043</a>	03:49:14

利用检索历史，重新组合检索式



# Mesh词表检索

## 1.自然语言检索的缺点：

人为的缩小：相同概念的多种说法

人为地扩大：输入的关键字可能命中文章某处，但并非文章重点

## 2. Mesh词表检索：Medical Subject Headings

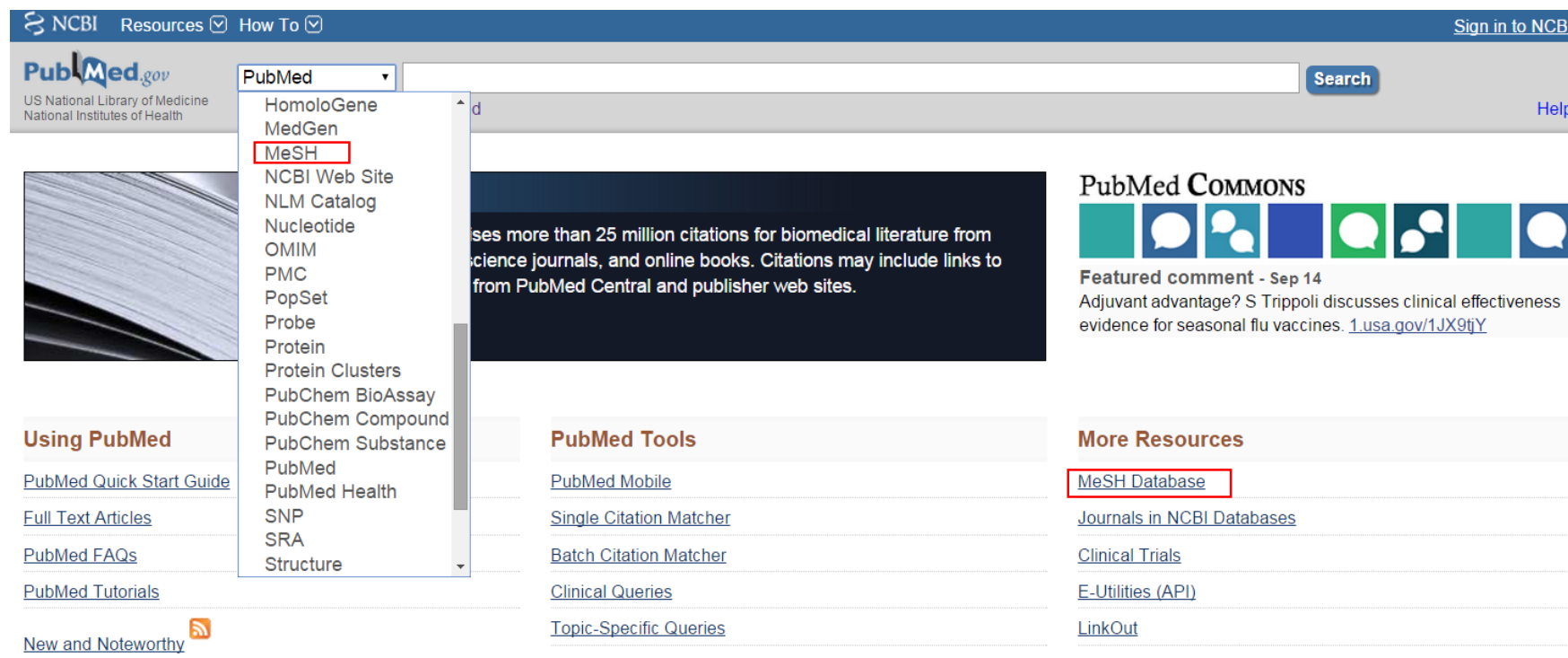
一套生物医学领域的主题词表，每个主题词 (MeSH Term) 代表特定的主题范畴，由NLM编制。

专家阅读文献后，根据内容，标注适当的 MeSH Terms 。



# Mesh词表检索

## 如何进入Mesh检索



The screenshot shows the PubMed website interface. At the top, there is a navigation bar with "NCBI Resources" and "How To" menus, and a "Sign in to NCBI" link. Below this is the PubMed logo and a search bar. A dropdown menu is open, listing various resources, with "MeSH" highlighted in a red box. The main content area features a "PubMed Commons" section with a featured comment and a "More Resources" section where "MeSH Database" is also highlighted in a red box. The "Using PubMed" section on the left includes links for "PubMed Quick Start Guide", "Full Text Articles", "PubMed FAQs", and "PubMed Tutorials". The "PubMed Tools" section includes links for "PubMed Mobile", "Single Citation Matcher", "Batch Citation Matcher", "Clinical Queries", and "Topic-Specific Queries".

NCBI Resources How To Sign in to NCBI

PubMed.gov  
US National Library of Medicine  
National Institutes of Health

PubMed

- HomoloGene
- MedGen
- MeSH
- NCBI Web Site
- NLM Catalog
- Nucleotide
- OMIM
- PMC
- PopSet
- Probe
- Protein
- Protein Clusters
- PubChem BioAssay
- PubChem Compound
- PubChem Substance
- PubMed
- PubMed Health
- SNP
- SRA
- Structure

PubMed Commons

Featured comment - Sep 14  
Adjuvant advantage? S Trippoli discusses clinical effectiveness evidence for seasonal flu vaccines. [1.usa.gov/1JX9tjY](http://1.usa.gov/1JX9tjY)

More Resources

- MeSH Database
- Journals in NCBI Databases
- Clinical Trials
- E-Utilities (API)
- LinkOut

Using PubMed

- PubMed Quick Start Guide
- Full Text Articles
- PubMed FAQs
- PubMed Tutorials

PubMed Tools

- PubMed Mobile
- Single Citation Matcher
- Batch Citation Matcher
- Clinical Queries
- Topic-Specific Queries

New and Noteworthy

Mesh检索的视频教程

<https://www.nlm.nih.gov/bsd/disted/video/>

# Mesh词表检索

## 检索结果页面

NCBI Resources How To Sign in to NCBI

MeSH MeSH  Search

Create alert Limits Advanced Help

Summary 20 per page Send to:

### Search results

Items: 8

- Spliceosomes** Heading (主题词): 规范后的标准用语
  - Organelles in which the splicing and excision reactions that remove introns from precursor messenger RNA molecules occur. One component of a **spliceosome** is five small nuclear RNA molecules (U1, U2, U4, U5, U6) that, working in conjunction with proteins, help to fold pieces of RNA into the right shapes and later splice them into the message.  
Year introduced: 1993
- CWC22 protein, human [Supplementary Concept]** Supplementary Concept(补充概念): 尚未进入主题词的新物质, 用来补充主题词的完整性
  - RefSeq NM\_020943  
Date introduced: February 5, 2013
- SAP130b protein, Arabidopsis [Supplementary Concept]**
  - a component of spicing factor 3b; RefSeq NM\_115380  
Date introduced: December 4, 2011
- SAP130a protein, Arabidopsis [Supplementary Concept]**
  - a component of spicing factor 3b; RefSeq NM\_115378  
Date introduced: December 4, 2011
- DDX39B protein, human [Supplementary Concept]**
  - RefSeq NM\_004640  
Date introduced: July 20, 2004

### PubMed Search Builder

Add to search builder AND Search PubMed

[YouTube Tutorial](#)

### Find related data

Database: Select Find items

### Search details

"spliceosomes"[MeSH Terms] OR spliceosome[Text Word]

Search See more...

### Recent Activity

Turn Off Clear

# Mesh词表检索

## 主题词页面

Full ▾

**Spliceosomes** **主题词**

Organelles in which the splicing and excision reactions that remove introns from precursor messenger RNA molecules occur. One component of a spliceosome is five small nuclear RNA molecules (U1, U2, U4, U5, U6) that, working in conjunction with proteins, help to fold pieces of RNA into the right shapes and later splice them into the message.  
Year introduced: 1993

PubMed search builder options

Subheadings:

<input type="checkbox"/> anatomy and histology	<input type="checkbox"/> enzymology	<input type="checkbox"/> pathology
<input type="checkbox"/> chemistry	<input type="checkbox"/> etiology	<input type="checkbox"/> physiology
<input type="checkbox"/> classification	<input type="checkbox"/> genetics	<input type="checkbox"/> radiation effects
<input type="checkbox"/> cytology	<input type="checkbox"/> immunology	<input type="checkbox"/> ultrastructure
<input type="checkbox"/> diagnosis	<input type="checkbox"/> metabolism	<input type="checkbox"/> virology
<input type="checkbox"/> drug effects	<input type="checkbox"/> microbiology	

Restrict to MeSH Major Topic. 限定在以该主题词为核心内容的文献，提高查准率

Do not include MeSH terms found below this term in the MeSH hierarchy. 不检索下位词

Tree Number(s): A11.284.430.106.279.345.850  
MeSH Unique ID: D017381

Entry Terms:

- Spliceosome

Previous Indexing:

- [Ribonucleoproteins \(1986-1992\)](#)

See Also:

- [RNA Splicing](#)

All MeSH Categories  
Anatomy Category  
Cells  
Cellular Structures  
Intracellular Space  
Cell Nucleus  
Cell Nucleus Structures  
Intranuclear Space  
**Spliceosomes**

Send to: ▾

PubMed Search Builder

Add to search builder AND ▾  
Search PubMed

YouTube Tutorial

Related information

PubMed  
PubMed - Major Topic  
Clinical Queries  
NLM MeSH Browser

Recent Activity

Turn Off Clear

- Spliceosomes MeSH
- spliceosome (8) MeSH
- spliceosomes (1950) PubMed
- spindle shaped virus (0) MeSH
- Sulfolobus spindle-shaped virus 1 contains glycosylated capsid proteins, a cellu... PubMed

See more...

# Mesh词表检索

若希望结合其他 MeSH Term 一起查询，在不关闭视窗的情况下，继续查询添加。

The screenshot displays the MeSH search interface. At the top, the search bar contains 'pre-mrna' and a 'Search' button. Below the search bar, there are options for 'Create alert', 'Limits', and 'Advanced'. The search results are displayed in a list format, with the first result being 'RNA Precursors'. The results list includes the following items:

- [RNA Precursors](#)
  1. RNA transcripts of the DNA that are in some unfinished stage of post-transcriptional processing (RNA PROCESSING, POST-TRANSCRIPTIONAL) required for function. **RNA precursors** may undergo several steps of RNA SPLICING during which the phosphodiester bonds at exon-intron boundaries are cleaved and the introns are excised. Consequently a new bond is formed between the ends of the exons. Resulting mature RNAs can then be used; for example, mature mRNA (RNA, MESSENGER) is used as a template for protein production.  
Year introduced: 1988
- [mRNA Cleavage and Polyadenylation Factors](#)
  2. Factors that are involved in directing the cleavage and POLYADENYLATION of the of MESSENGER RNA near the site of the RNA 3' POLYADENYLATION SIGNALS.  
Year introduced: 2003
- [RDM16 protein, Arabidopsis \[Supplementary Concept\]](#)
  3. RefSeq NM\_102571  
Date introduced: March 19, 2014
- [PRP19beta, rat \[Supplementary Concept\]](#)
  4. RefSeq NM\_139333  
Date introduced: March 13, 2014
- [Prpf8 protein, zebrafish \[Supplementary Concept\]](#)
  5. RefSeq NM\_200976

On the right side of the interface, there is a 'PubMed Search Builder' panel. It contains a text box with the query '"Spliceosomes"[Major]'. Below the text box, there is a button labeled 'Add to search builder' and a dropdown menu set to '.AND'. A red arrow points to the dropdown menu. Below the button and dropdown, there is a 'Search PubMed' button. Below the 'Search PubMed' button, there is a 'YouTube Tutorial' link. Below the 'YouTube Tutorial' link, there is a 'Find related data' panel with a 'Database:' dropdown menu set to 'Select' and a 'Find items' button. Below the 'Find items' button, there is a 'Search details' panel with a text box containing the query '"rna precursors"[MeSH Terms] OR pre-mrna[Text Word]'. Below the text box, there is a 'Search' button and a 'See more...' link. Below the 'Search details' panel, there is a 'Recent Activity' panel with a 'Turn Off' link and a 'Clear' link. Below the 'Recent Activity' panel, there is a search bar with the query 'pre-mrna (34)'.

# Mesh词表检索

使用 MeSH 查询文献，可参照以下步骤：

- 1、将查询需求化为具体的陈述句。
- 2、从这个陈述句中，抓出主要概念，作为查询关键字。
- 3、将这些关键字分别放到 MeSH Database 中，比对出最接近、适当的 MeSH Terms。
- 4、将所找到的 MeSH Terms，依陈述句中的逻辑，以「AND」「OR」「NOT」组合成检索策略。
- 5、当检索策略完成，点选「Search PubMed」送入 PubMed 查询。



我想吃的是。。。

新西兰金奇异果

新西兰 and 黄金 and 猕猴桃

SEARCH





# 检索结果

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PubMed US National Library of Medicine National Institutes of Health Advanced Search Help

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The splicing factor Prp17 interacts with the U2, U5 and U6 snRNPs and assoc [Biochem J. 2008]  
Association of U2, U4, U5, and U6 small nuclear ribonucleoprotei [Proc Natl Acad Sci U S A. 1988]  
Structural characterization of the fission yeast U5.U2/U6 splice [Proc Natl Acad Sci U S A. 2007]  
**Review** The function of the NineTeen Complex (NTC) in regulating sp [Biochem Soc Trans. 2010]  
**Review** The role of PRP8 protein in nuclear pre-mRNA splicing in yeast. [J Cell Sci Suppl. 1995]  
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[Structure of a yeast spliceosome at 3.6-angstrom resolution.](#)  
Yan C<sup>1</sup>, Hang J<sup>1</sup>, Wan R<sup>1</sup>, Huang M<sup>2</sup>, Wong CC<sup>2</sup>, Shi Y<sup>1</sup>.  
+ Author information  
**Abstract**  
Splicing of precursor messenger RNA (pre-mRNA) in yeast is executed by the spliceosome, which consists of five small nuclear ribonucleoproteins (snRNPs), NTC (nineteen complex), NTC-related proteins (NTR), and a number of associated enzymes and cofactors. Here, we report the three-dimensional structure of a Schizosaccharomyces pombe spliceosome at 3.6-angstrom resolution, revealed by means of single-particle cryogenic electron microscopy. This spliceosome contains U2 and U5 snRNPs, NTC, NTR, U6 small nuclear RNA, and an RNA intron lariat. The atomic model includes 10,574 amino acids from 37 proteins and four RNA molecules, with a combined molecular mass of approximately 1.3 megadaltons. Spp42 (Prp8 in Saccharomyces cerevisiae), the key protein component of the U5 snRNP, forms a central scaffold and anchors the catalytic center. Both the morphology and the placement of protein components appear to have evolved to facilitate the dynamic process of pre-mRNA splicing. Our near-atomic-resolution structure of a central spliceosome provides a molecular framework for mechanistic understanding of pre-mRNA splicing.  
Copyright © 2015, American Association for the Advancement of Science.  
PMID: 26292707 [PubMed - in process]  
f t x

[Science](#), 2015 Sep 11;349(6253):1182-91. doi: 10.1126/science.aac7629. Epub 2015 Aug 20.



# NCBI

- NCBI提供功能强大的数据检索与分析工具
- 以Entrez数据库检索系统为核心，将数据库中信息进行整合。这些数据库包括核酸序列，蛋白序列，大分子结构，全基因组等，同时可通过PubMed关联至相关文献。
- 提供详细的入门课程和帮助指南，教学视频帮助你轻松上手。

<https://www.ncbi.nlm.nih.gov/>

# Gene数据库

## SSO\_RS04860 chorismate-binding protein [ *Sulfolobus solfataricus* P2 ]

Gene ID: 1455216, updated on 6-Aug-2016

### Summary

**Gene symbol** SSO\_RS04860  
**Gene description** chorismate-binding protein  
**Locus tag** SSO\_RS04860  
**Gene type** protein coding  
**Organism** [Sulfolobus solfataricus P2 \(strain: P2\)](#)  
**Lineage** Archaea; Crenarchaeota; Thermoprotei; Sulfolobales; Sulfolobaceae; Sulfolobus  
**Old locus tag** SSO6901

### Genomic context

**Sequence:** NC\_002754.1 (834345..834527)

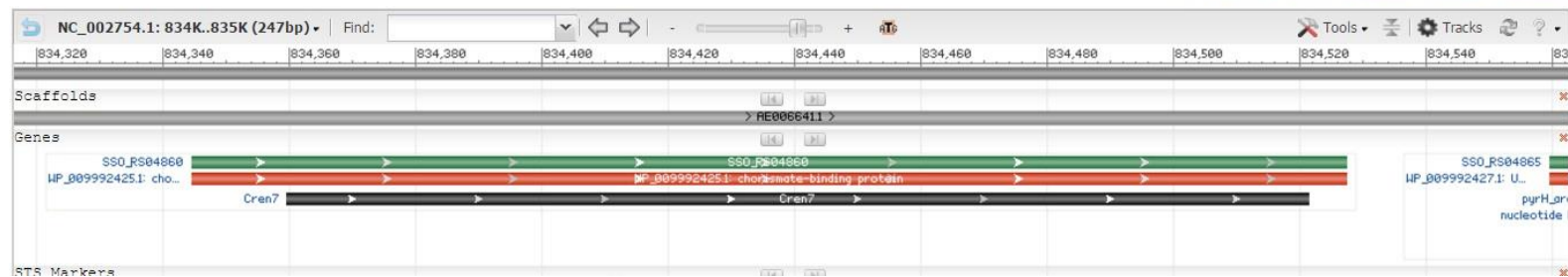


### Genomic regions, transcripts, and products

**Genomic Sequence:** NC\_002754.1

[Go to reference sequence details](#)

[Go to nucleotide:](#) [Graphics](#) [FASTA](#) [GenBank](#)



# BLAST

**BLAST®** Basic Local Alignment Search Tool

Home Recent Results Saved Strategies Help

NCBI/BLAST Home

BLAST finds regions of similarity between biological sequences. [more...](#)

**New** Try [SmartBLAST](#) for an improved protein-protein search

### BLAST Assembled Genomes

Find Genomic BLAST pages:

Enter organism name or id—completions will be suggested  **GO**

- Human
- Mouse
- Rat
- Cow
- Pig
- Dog
- Rabbit
- Chimp
- Guinea pig
- Fruit fly
- Honey bee
- Chicken
- Zebrafish
- Clawed frog
- Arabidopsis
- Rice
- Yeast
- Microbes

### Basic BLAST

Choose a BLAST program to run.

<a href="#">nucleotide blast</a>	Search a <b>nucleotide</b> database using a <b>nucleotide</b> query <i>Algorithms:</i> blastn, megablast, discontinuous megablast	核酸序列比对
<a href="#">protein blast</a>	Search <b>protein</b> database using a <b>protein</b> query <i>Algorithms:</i> blastp, psi-blast, phi-blast, delta-blast	蛋白序列比对
<a href="#">blastx</a>	Search <b>protein</b> database using a <b>translated nucleotide</b> query	
<a href="#">tblastn</a>	Search <b>translated nucleotide</b> database using a <b>protein</b> query	
<a href="#">tblastx</a>	Search <b>translated nucleotide</b> database using a <b>translated nucleotide</b> query	

### Specialized BLAST

Choose a type of specialized search (or database name in parentheses.)

- Get faster protein results with a graphical view using [SmartBLAST](#)
- Make specific primers with [Primer-BLAST](#)
- Cluster multiple sequences together with their database neighbors using [MOLE-BLAST](#)
- Find [conserved domains](#) in your sequence (cds)
- Find sequences with similar [conserved domain architecture](#) (cdart)
- Search sequences that have [gene expression profiles](#) (GEO)
- Search [immunoglobulins and T cell receptor sequences](#) (IgBLAST)
- Screen sequence for [vector contamination](#) (vecscreen)
- [Align](#) two (or more) sequences using BLAST (bl2seq)
- Search [protein](#) or [nucleotide](#) targets in PubChem BioAssay
- Search [SRA by experiment](#)
- Constraint Based Protein [Multiple Alignment Tool](#)
- Needleman-Wunsch [Global Sequence Alignment Tool](#)
- Search [RefSeqGene](#)
- Search [trace archives](#)
- Search bacterial and fungal rRNA sequences with [Targeted Loci BLAST](#)

BLAST is a registered trademark of the National Library of Medicine.

blastn blastp blastx tblastn tblastx

### Enter Query Sequence

Enter accession number(s), gi(s), or FASTA sequence(s)  [Clear](#) [Query subrange](#)

```
MPNFYVGSKFYVKEIKGKYVYVSIENGDDGQRHTYIGSLEQIVMEYYDMKCGRRDLNFGSPAWEAGIRGTPPKTPDANDELK
GVRILDSNLTSSNNSEISASDLLKFEFTLRQKKITDKTIKEYINCVKQGRKESNNCIKAWNFYKLVNRPPEPESLKIERTKPD
LRVPTLEVRKTLSTVKEYPNLILFYRLLESGRSEALKVLDYHPQNEIREGFSIYILHWTRGQKKSFYIFHVTBLKQIK
ISKAYVDKYVRLNLVPPKRYIRKFFATKALELGIPEVDFLEGRTPGDILTGHYLDLLTLAKKYPLYAEWLYTF
```

From

To

Or, upload file  选择文件 未选择任何文件

Job Title

Enter a descriptive title for your BLAST search

[Align two or more sequences](#)

### Choose Search Set

Database

Organism   Exclude

Optional Enter organism common name, binomial, or tax id. Only 20 top taxa will be shown.

Exclude  Models (XM/XP)  Uncultured/environmental sample sequences

Optional  [YouTube](#) [Create custom database](#)

Optional Enter an Entrez query to limit search

### Program Selection

Algorithm

- blastp (protein-protein BLAST)
- PSI-BLAST (Position-Specific Iterated BLAST)
- PHI-BLAST (Pattern Hit Initiated BLAST)
- DELTA-BLAST (Domain Enhanced Lookup Time Accelerated BLAST)

Choose a BLAST algorithm

**BLAST** Search database **Non-redundant protein sequences (nr)** using **Blastp (protein-protein BLAST)**

Show results in a new window

[Algorithm parameters](#)

# My NCBI

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My Bibliography、Saved Searches、Filters、Preferences等

## My NCBI

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### Search NCBI databases

Search:

Hint: clicking the "Search" button without any terms listed in the search box will transport you to that database's homepage.

### Saved Searches

You don't have any saved searches yet.

Go and [create some saved searches](#) in PubMed or our other databases.

[Manage Saved Searches >](#)

### My Bibliography

Your bibliography contains **no items**.

Use the "Send to > My Bibliography" menu in PubMed to add citations,  
OR  
[Click here](#) to manually create citations.

[Manage My Bibliography >](#)

### Collections

Collection Name	Items	Settings/Sharing	Type
<a href="#">Favorites</a>	<a href="#">edit</a> 0	<a href="#">Private</a>	Standard
<a href="#">My Bibliography</a>	<a href="#">edit</a> 0	<a href="#">Private</a>	Standard
<a href="#">Other Citations</a>	<a href="#">edit</a> 0	<a href="#">Private</a>	Standard

[Manage Collections >](#)

### Recent Activity

Time	Database	Type	Term
10:06 PM	PubMed	record	<a href="#">Structure of a yeast spliceosome at...</a>
9:16 PM	PubMed	search	<a href="#">shi yiqiong and spliceosome</a>
31-Aug-2015	PubMed	record	<a href="#">Generation of miRNA sponge construc...</a>
31-Aug-2015	PubMed	record	<a href="#">A lentiviral sponge for miRNA-21 di...</a>
31-Aug-2015	PubMed	record	<a href="#">Design of a miRNA sponge for the mi...</a>
31-Aug-2015	PubMed	search	<a href="#">mima sponge</a>
31-Aug-2015	PubMed	record	<a href="#">The qga-let-7 family post-transcrip...</a>
31-Aug-2015	PubMed	search	<a href="#">let-7</a>
16-Aug-2015	PubMed	search	<a href="#">xiaowo wang</a>
16-Aug-2015	Books	record	<a href="#">PubMed Help - PubMed Help</a>

[Clear](#) [Turn Off](#)

[See All Recent Activity >](#)

### Filters

Filters for:

You do not have any active filters for this database.

[Add filters for the selected database.](#)

[Manage Filters >](#)

### SciENcv

[Click here](#) to create a new CV.

# 内容

## 第一部分

如何开展科研工作  
医学资源介绍

## 第三部分

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NCBI简介

## 第四部分

交流和问题讨论

# 图书馆资源使用技巧

## 查找数据库

如何找到我需要的数据库？



The screenshot displays the 'Tsinghua University Database Navigation System' (清华大学数据库导航系统) interface. At the top, there is a navigation bar with links for '学术信息资源门户', '电子期刊导航', '资源动态', '校外访问', '多媒体资源', and '中英文核心期刊'. Below this, the main content area features several search and navigation options:

- 按数据库名称检索:** A search box with a '查找' button and a '咨询反馈' link.
- 按字顺浏览数据库:** A list of letters from A to Z, with '中文库' and '全部库' as additional options.
- 按分类浏览数据库:** A list of subject categories including '综合', '数学', '物理', '化学/化工', '生物', '医学', '生物医学工程', '药学', '天文/地理/海洋/地质/地球物理', '力学', '航空航天', '材料', '冶金/动力/工程热物理', '核科学与技术', '电气/电子/通信/控制/计算机', '光学/仪器', '机械', '土木/水利', '建筑', '交通/船舶', '环境', '兵器/军事', '测绘', '矿业/石油与天然气', '农学/农业工程', '纺织/轻工/食品', '经济', '管理学', '系统科学', '法律/政治', '语言/文学/新闻传播', '哲学', '社会/民族', '教育/心理', '艺术', '历史', '体育', '图书馆、情报与档案管理', '科学技术史', and '其他'.
- 按数据库学科检索:** A dropdown menu for '请选择数据库分类' and a search box with a '查找' button.
- 按数据库类型检索:** A dropdown menu for '请选择数据库类型' and a search box with a '查找' button.
- 软件工具:** Links for 'RefWorks', 'NoteExpress', 'EndNote Web', 'InCites NEW', 'SPSS NEW', and '常用阅读器下载'.
- 快速浏览常用电子资源平台/数据库:** A section with buttons for '按字顺查看', '按学科查看', and '按文献类型查看'.
- 当前【按字顺查看】:** A list of databases categorized into '外文数据库 (A-Z)' and '中文数据库 (Z-A)'.
  - 外文数据库 (A-Z):**
    1. AACR (美国癌症研究会)
    2. ACM (美国计算机协会)
    3. ACS Publications (美国化学学会出版物)
    4. AGU (美国地球物理学会)
    5. AIAA (美国航空航天学会)
    6. AIP (美国物理联合会)
    7. AMS (美国数学会)
    8. Annual Reviews
    9. APS (美国物理学会)
    10. ARTstor 艺术图像数据库
  - 中文数据库 (Z-A):**
    1. 中文社科引文索引 (CSSCI)
    2. 中宏数据库
    3. 中国知网 (期刊、学位论文、会议、报纸、年鉴、引文、标准)
    4. 中国人民大学《复印报刊资料》
    5. 中国历代石刻史料汇编
    6. 中国科学引文数据库 (CSCD)
    7. 中国科学网络版
    8. 中国金融学术研究网 (CFRN)
    9. 《中国基本古籍库》全文网络版
    10. 中国国家图书馆数字资源

At the bottom of the page, there is a footer with navigation links: '清华大学', '电子论文提交', '新生专栏', '捐赠', '专业图书馆', '校友专栏', '开通借书权限', and '校外访问'. The very bottom contains a list of partner organizations: 'CALIS工程中心', 'CALIS', 'CADAL', 'CASHL', 'NSTL', '国内外图书馆', '外教中心', '查新站', '科古所', 'OCLC服务中心', '北京高校信息素质教育', and '北京数图专委会'.

# 图书馆资源使用技巧

## 查找电子期刊

如何找到我想看的电子期刊？

我想下载某一期刊上的文献全文，不知道图书馆是否已购买？

清华大学电子期刊导航系统

学术信息资源门户 数据库导航 资源动态 校外访问 多媒体资源

期刊检索:  查找 咨询反馈 期刊未源库 快速找文章 RSS

模糊查询  精确匹配  前方一致  ISSN  全部期刊  中文刊  外文刊

按字顺浏览期刊:

中文刊: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 全部 全部 全部

外文刊: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

O A 刊: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

按分类浏览:

医学、卫生和保健 诊断学 医学教育、培训及科研 艺术和人文

清华大学电子期刊导航系统

学术信息资源门户 数据库导航 资源动态 校外访问 多媒体资源 中外文核心期刊 首页

期刊检索:  查找 咨询反馈

模糊查询  精确匹配  前方一致  ISSN  全部期刊  中文刊  外文刊  免费刊

中文刊: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 全部 全部 全部

外文刊: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

O A 刊: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

共有记录1条, 本页为1-1项 上一页 | 下一页 1/1页 转到 1 ▾

期刊刊名	来源	起止日期	ISSN	学科分类	收录情况*	详情
<a href="#">Pediatric Cardiology</a> [同行评议期刊]	SpringerLink Journals Complete	1979年1卷1期至今	0172-0643	医学、卫生和保健	SCIE, MED, JCR	<a href="#">详情</a>

共有记录1条, 本页为1-1项 上一页 | 下一页 1/1页 转到 1 ▾

\* SCIE: SCIE(2016), SSCI: SSCI(2016), AHCI: A&HCI(2016), EI: Ei Compendex (2015), MED: MEDLINE(2011), PKU: 中文核心期刊要目总览(2014), CSSCI: 中文社会科学引文索引-CSSCI(2014-2015), CJCR: 中国科技期刊引证报告(2015), CSCD: 中国科学引文数据库(CSCD)来源期刊库(2013-2014), JCR: 查看SCI影响因子(2014)



# 图书馆资源使用技巧

## 校外访问

- 大部分数据库访问权限是通过校内IP控制
- 通过“校外访问”系统，可以在校园网外访问本馆绝大多数电子资源
- 系统的用户名为学号/工作证号，密码同清华大学信息门户系统的密码

清华大学图书馆  
Tsinghua University Library

服务申请  
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开放时间  
借还书  
咨询 | 培训  
移动图书馆

English

馆藏目录 水木搜索 数据库 电子期刊 电子图书 我的图书馆

### 校外远程访问系统

教育网接入 用户登录

用户名/密码，与登陆info相同

登录账号

清华大学图书馆  
Tsinghua University Library

IFC易瑞授权访问系统 V6.1  
IFC IRAS Authorized Access System

电子资源 Electronic Resources 常见问题 Question 公告 Announcement 留言 Message 退出 | 修改密码

欢迎您, 任奕 (2013621256) 今天是 2016年03月29日 15时08分

您可以访问的电子资源有:

search: 请输入您要搜索的内容 搜索

资源名称 Name	简介 Introduction	访问统计 Statistics	收藏 Favorite	全部类型 Type	语言 Language
AACR	简介	4472次	收藏	期刊	外文
AGU	简介	1269次	收藏	期刊	外文
ProQuest平台(ABI、ARL、PSJ、PQDT、APA、原CSA)	简介	20625次	收藏	期刊 学位论文 报纸	外文
Taylor & Francis Journals	简介	12981次	收藏	期刊 图书	外文
ACM (主站)	简介	6960次	收藏	期刊	外文
ACM (清华中心镜像)	简介	5119次	收藏	期刊	外文
ACS	简介	20978次	收藏	期刊	外文
AIAA	简介	3736次	收藏	期刊 会议	外文
AIP & Scitation Collection	简介	7243次	收藏	期刊 会议	外文
AMS	简介	1456次	收藏	期刊 图书	外文
Annual Reviews	简介	1838次	收藏	期刊	外文
APS Journals(访问入口1)	简介	5422次	收藏	期刊	外文



# 内容

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NCBI简介

## 第四部分

交流和问题讨论

# 交流和问题讨论

## 学科服务

任奕 62784908, [renyi@tsinghua.edu.cn](mailto:renyi@tsinghua.edu.cn)

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谢谢

