

2016

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

第一部分

数据库、网络资源和软件

第三部分

图书馆资源使用技巧

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Pubmed数据库检索
NCBI简介

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交流和问题讨论

内容

第一部分

数据库、网络资源和软件

第三部分

图书馆资源使用技巧

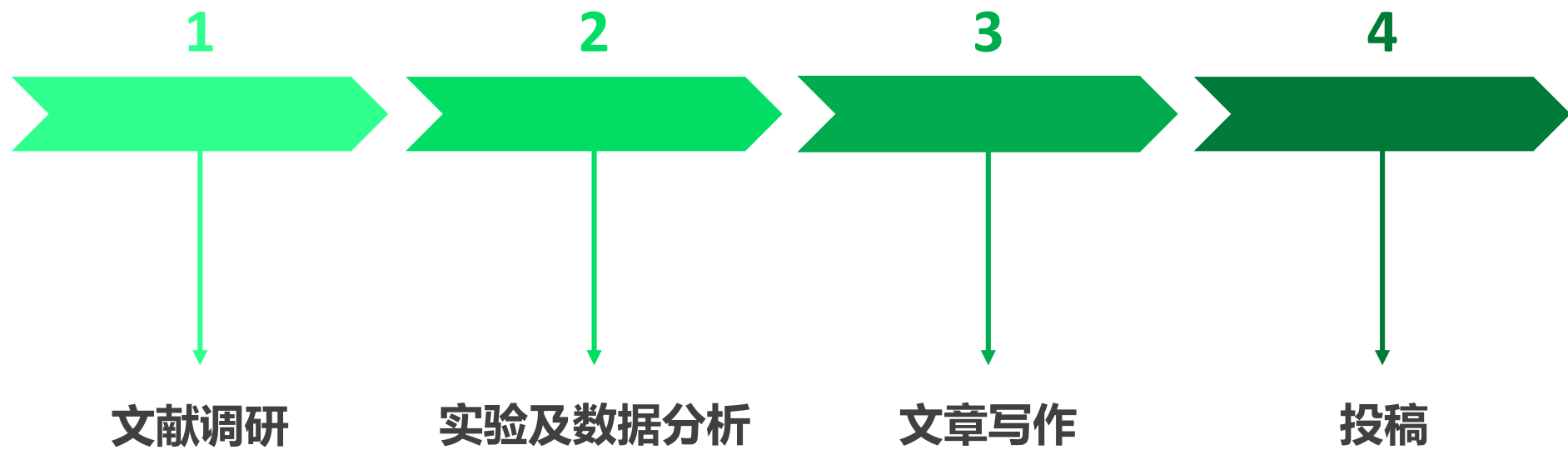
第二部分

Pubmed数据库检索
NCBI简介

第四部分

交流和问题讨论

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

讲座：开题与立项前的文献调研概述（理工类）
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
- 万方数据资源系统
- 维普(VIP)-中文科技期刊全文数据库

文献调研

英文数据库

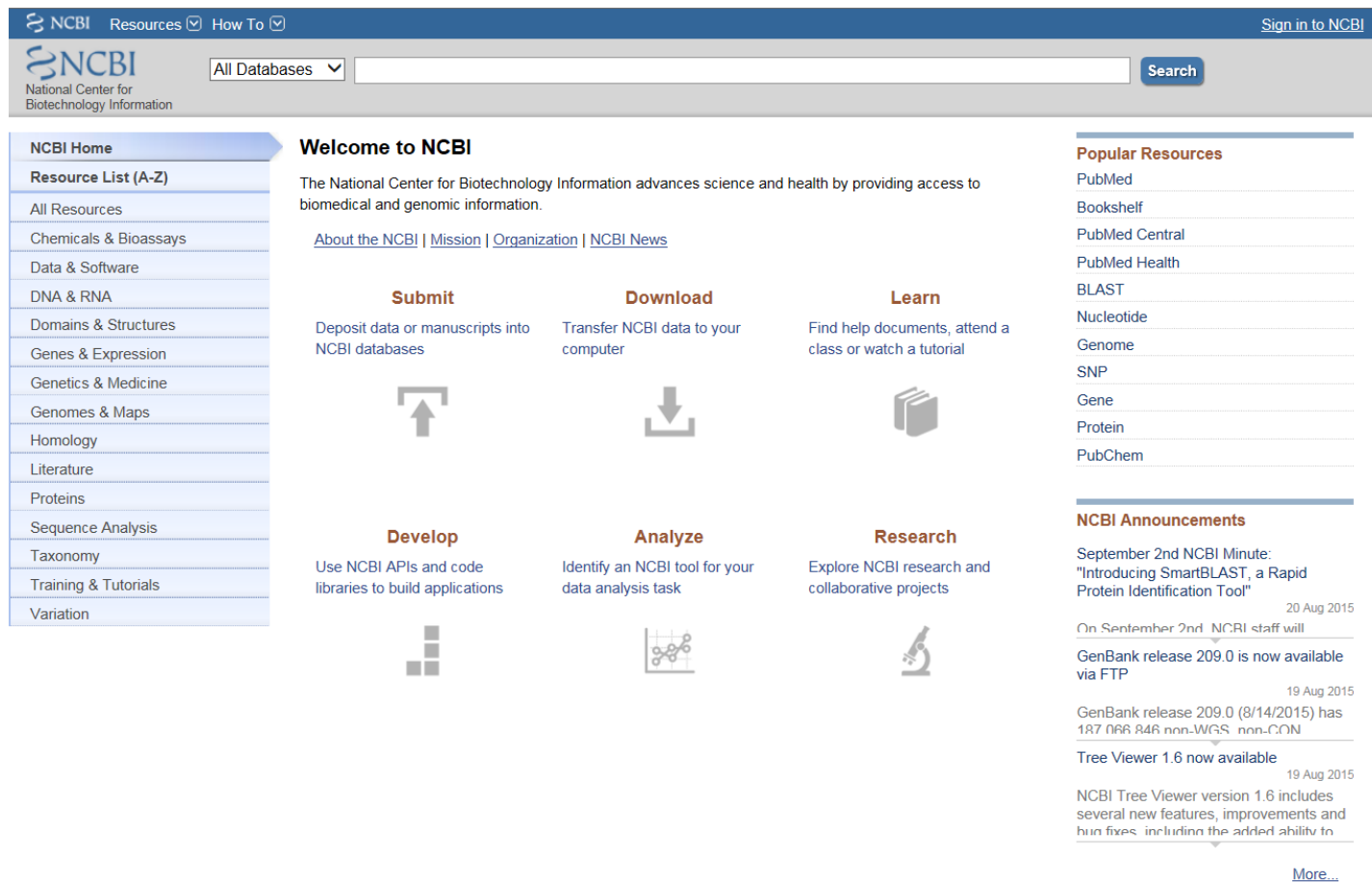
- NCBI-Pubmed
- BIOSIS Previews (BP)

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 homepage with a blue header bar containing the NCBI logo, navigation links (Resources, How To), and a search bar. The main content area is divided into three columns. The left column is a sidebar with a 'Resource List (A-Z)' menu. The middle column features a 'Welcome to NCBI' message and six large icons representing different services: Submit, Download, Learn, Develop, Analyze, and Research. The right column contains 'Popular Resources' and 'NCBI Announcements' sections.

NCBI Home
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
Variation

Welcome to NCBI
The National Center for Biotechnology Information advances science and health by providing access to biomedical and genomic information.
[About the NCBI](#) | [Mission](#) | [Organization](#) | [NCBI News](#)

Submit
Deposit data or manuscripts into NCBI databases

Download
Transfer NCBI data to your computer

Learn
Find help documents, attend a class or watch a tutorial

Develop
Use NCBI APIs and code libraries to build applications

Analyze
Identify an NCBI tool for your data analysis task

Research
Explore NCBI research and collaborative projects

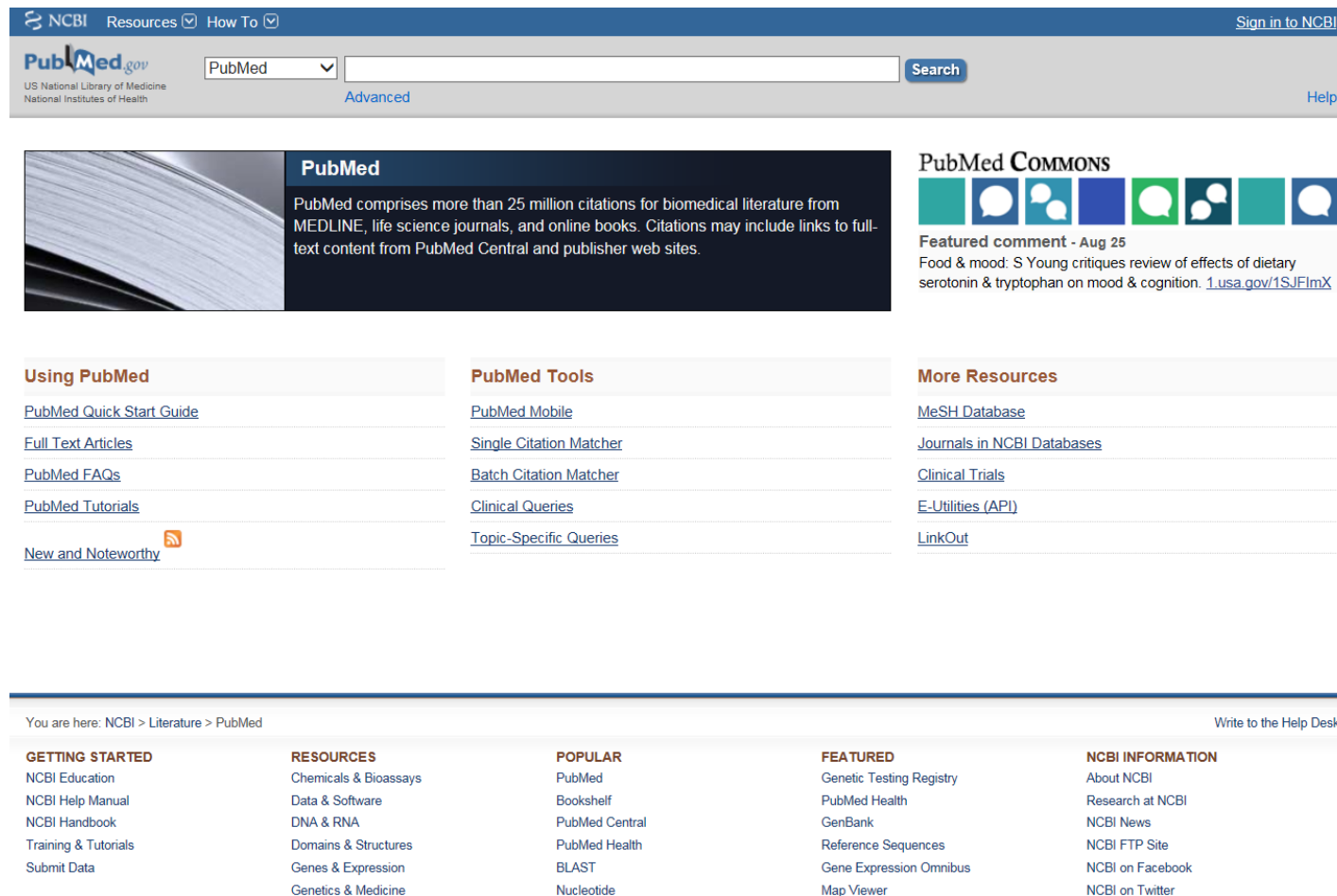
Popular Resources
PubMed
Bookshelf
PubMed Central
PubMed Health
BLAST
Nucleotide
Genome
SNP
Gene
Protein
PubChem

NCBI Announcements
September 2nd NCBI Minute: "Introducing SmartBLAST, a Rapid Protein Identification Tool" 20 Aug 2015
On September 2nd, NCBI staff will
GenBank release 209.0 is now available via FTP 19 Aug 2015
GenBank release 209.0 (8/14/2015) has 187 068 848 non-WGS non-CON
Tree Viewer 1.6 now available 19 Aug 2015
NCBI Tree Viewer version 1.6 includes several new features, improvements and bug fixes, including the added ability to
[More...](#)

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

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 displays the PubMed website interface. At the top, there is a navigation bar with 'NCBI Resources' and 'How To' links, along with a 'Sign in to NCBI' option. Below this is a search bar with a dropdown menu set to 'PubMed' and a 'Search' button. A 'Help' link is also present. The main content area features a 'PubMed' section with a description of the database and a 'PubMed Commons' section with a featured comment. Below these are three columns of links: 'Using PubMed' (including Quick Start Guide, Full Text Articles, FAQs, Tutorials, and New and Noteworthy), 'PubMed Tools' (including Mobile, Citation Matcher, Clinical Queries, and Topic-Specific Queries), and 'More Resources' (including MeSH Database, Journals in NCBI Databases, Clinical Trials, E-Utilities (API), and LinkOut). At the bottom, there is a 'You are here' breadcrumb trail and a 'Write to the Help Desk' link. The footer contains five columns of links: 'GETTING STARTED' (Education, Help Manual, Handbook, Training & 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/>

BIOSIS Previews

- 最具综合性与权威性的生命科学文摘索引数据库
- 提供了当今最新的生命科学和生物医学研究领域的综合资源，包括期刊、会议、专利、书籍等
- 始于1926年，1800万条记录，每周更新



文献调研

英文数据库

- Web of Science – 大名鼎鼎的SCI
- Scopus – 最大最全
- SciFinder – 专业的化学/化工数据库
- Ei Compendex, INSPEC – 工程类数据库，科技期刊和会议论文

文献调研

学位论文

- 清华大学学位论文
- 中国知网
- ProQuest Dissertations and Theses (PQDT)

讲座：国内外学位论文的检索与原文获取

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
- 本机下载，本机阅读
- 纸版可到老馆阅览



清华大学图书馆
Tsinghua University Library

清华大学学位论文服务系统

 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	
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、氯酚等酚类物质和四酚、三酚、二酚等酚类物质。同时,紫外光降解过程还产生了高浓度臭氧(O₃)。通过5000h的连续平行运行实验,比较		

http://166.111.120.42/Thesis/Thesis/ThesisSearch/Search_DataInit.aspx?dbid=7&Code=etdqh

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's search interface for Master's and Doctoral Theses. The header includes the CNKI logo and the text '中国知网 cnki.net'. Below the header, there are tabs for '博硕士' (Master's/Doctoral) and '博士/硕士' (Doctoral/Master's). The main search area features a '检索' (Search) button and a '高级检索' (Advanced Search) button. The search conditions are set to '主题' (Topic) and '并含' (And contains). The search range is set to '不限' (No limit) for both years and the level of excellence. The search results are displayed in a table with columns for '题名' (Title), '作者' (Author), '单位' (Institution), '年份' (Year), and '摘要' (Abstract). The search history shows '清华大学' (Tsinghua University) and '干旭' (Gan Xu).

中国知网 cnki.net

博硕士 博士/硕士

检索 高级检索 专业检索 科研基金检索 句子检索

输入检索条件:

(主题 并含 精确)

从 不限 年到 不限 年 优秀论文级别: 不限

检索

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3,100,687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、信息科技、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。

检索历史:

> 清华大学

> 干旭

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

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- 可见前24页，“ProQuest学位论文全文检索平台” 可看全文
- 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.

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

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

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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.

<http://search.proquest.com/dissertations?accountid=14426>

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

四大医学期刊

- BMJ 英国医学会期刊
- The Lancet 柳叶刀
- The New England Journal of Medicine 新英格兰医学杂志
- JAMA 美国医学会杂志

BMJ-British Medical Journal

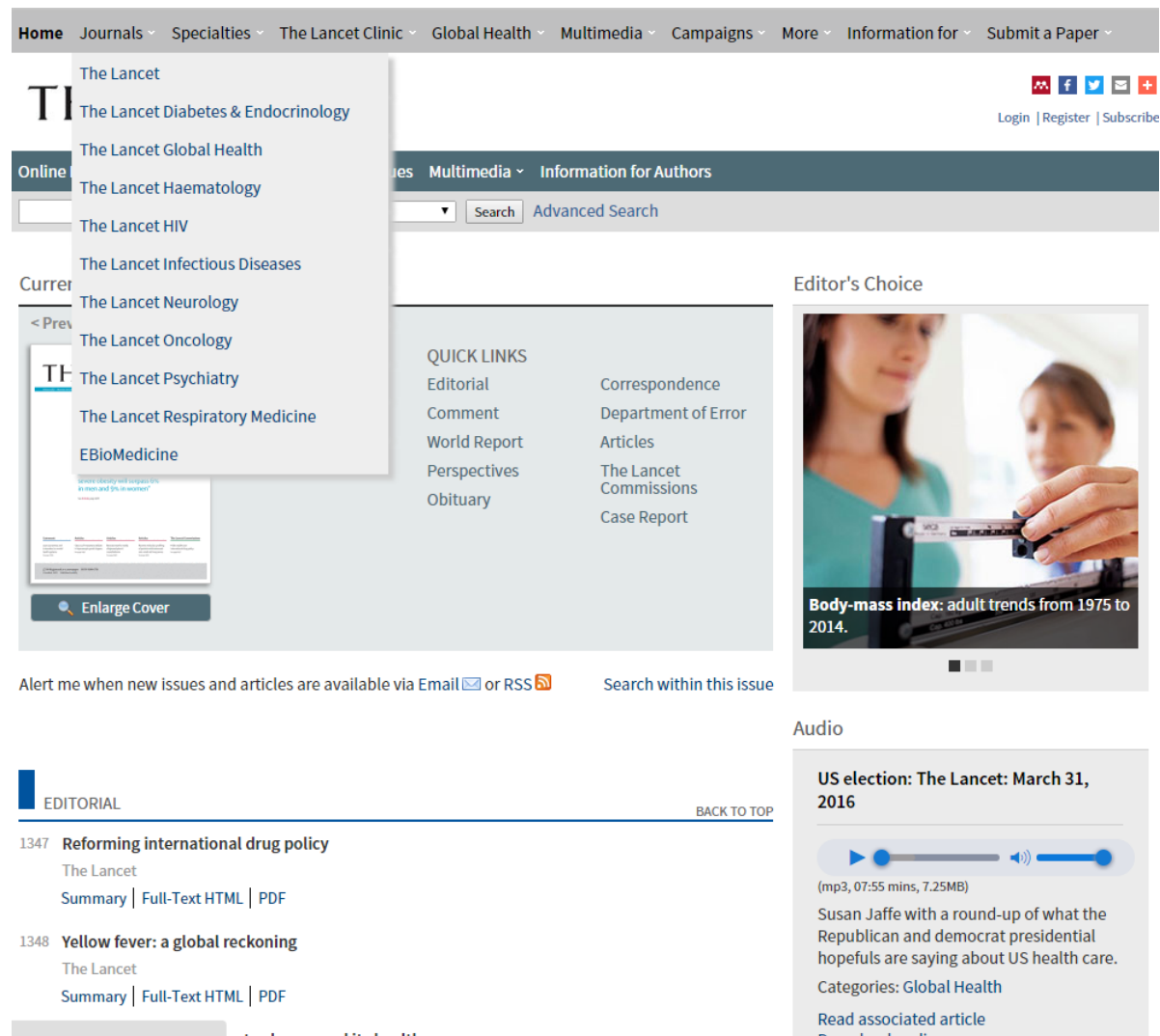
- 英国医学会出版
- 有着160年的悠久历史，在全世界广受欢迎及阅读的同行评审性质的综合医学期刊。
- BMJ Journals Collection (已购买)
从医疗保健管理到神经学等领域的29种期刊，许多期刊都在其各自领域处于世界领先地位。

The screenshot shows the BMJ Journals website. At the top, the 'Journals' title is displayed in a large blue font, with the BMJ logo to its right. Below the title is a tagline: 'Engaging, informative and influential journals for healthcare professionals and researchers'. A navigation bar contains three buttons: 'Journals', 'Authors', and 'Librarians'. The main content area is divided into two columns. The left column, titled 'Welcome to BMJ's collection of leading journals', includes a 'Browse journals from BMJ' section with four journal covers: 'Archives of Disease in Childhood', 'The BMJ' (with a 'NOTHING TO DECLARE?' badge), 'BMJ Case Reports', and 'BMJ Innovations'. Below this is a 'Browse Journals' section with a dropdown menu labeled 'Select a Journal'. The right column, titled 'Providing high quality content for health professionals and researchers across the world, this collection includes not only the BMJ but some of the most influential specialty journals in their field.', contains a 'Subscribe here' section with a sign-in form (username, password, 'Remember me' checkbox, and a 'Sign in' button) and links for 'Forgot your sign in details?' and 'Recommend to your Institution'. Below the sign-in section is a 'Keep updated' section with four icons: 'My Folders', 'My Alerts', 'Get RSS Feeds', and 'My Account'. At the bottom right, there is a 'Featured website' section for 'RMD Open'.

<http://journals.bmj.com/>

The Lancet

- 1823年创刊
- 医学界最权威的学术刊物之一，也是影响因子最高的SCI刊物之一，其在医学界的影响甚至超过了《Nature》和《Science》
- 可通过Proquest平台访问全文
- 《柳叶刀》中文版
- <http://www.thelancet.cn/>



The screenshot displays the The Lancet website homepage. At the top, a navigation bar includes links for Home, Journals, Specialties, The Lancet Clinic, Global Health, Multimedia, Campaigns, More, Information for, and Submit a Paper. A dropdown menu for 'Journals' is open, listing various journals such as The Lancet, The Lancet Diabetes & Endocrinology, The Lancet Global Health, The Lancet Haematology, The Lancet HIV, The Lancet Infectious Diseases, The Lancet Neurology, The Lancet Oncology, The Lancet Psychiatry, The Lancet Respiratory Medicine, and EBioMedicine. Below the navigation bar, there is a search bar and a section for 'QUICK LINKS' with categories like Editorial, Comment, World Report, Perspectives, and Obituaries. A featured article titled 'Body-mass index: adult trends from 1975 to 2014' is highlighted under 'Editor's Choice'. The bottom section features an 'EDITORIAL' section with articles like 'Reforming international drug policy' and 'Yellow fever: a global reckoning', each with links to Summary, Full-Text HTML, and PDF. An audio player for a podcast titled 'US election: The Lancet: March 31, 2016' is also visible.

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

New England Journal of Medicine

- 创刊于1811年，是世界上连续出版时间最久的医学期刊
- 主要提供生物医学和临床实践方面重要的原创性研究成果、临床发现及观点，注重实用性。
- 2015年JCR影响因子为59，在全科医学（MEDICINE, GENERAL & INTERNAL）155种期刊中排名第1

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Keyword, Title, Author, or Citation

[Advanced Search](#)

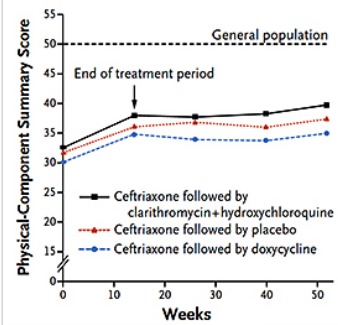
Access Provided By:
TSINGHUA UNIVERSITY - TRIAL

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IMAGE CHALLENGE
What is the most likely diagnosis in a patient with this migratory, pruritic skin eruption?
[Submit Answer](#)
[More Image Challenges](#)

IMAGE OF THE WEEK
Thigh Pain
A 57-year-old man with knee pain presented with swelling in the right thigh.
[Recent Featured Images](#)

ORIGINAL ARTICLE
Therapy for Symptoms Attributed to Lyme Disease
March 31, 2016 | A. Berende and Others
In this randomized, controlled trial from Europe involving patients with persistent symptoms attributed to Lyme disease who had received 2 weeks of standard treatment, there was no benefit associated with 12 additional weeks of treatment with either doxycycline or clarithromycin-hydroxychloroquine.
[Free Full Text](#) | [Quick Take](#) | [Comments](#)
[Related Editorial](#)
SPECIALTIES
Infectious Disease, Primary Care/ Hospitalist



QUICK TAKE VIDEO
Longer-Term Therapy for Lyme Disease

BRIEF REPORT ONLINE FIRST
Zika Virus Infection and Fetal Brain Abnormalities
March 30, 2016 | R.W. Driggers and Others
(DOI: 10.1056/NEJMoa1601824)
In this case report, the association between Zika virus infection and teratogenicity is strengthened, with evidence that the latency period between ZIKV infection of the fetal brain and the detection of microcephaly and intracranial calcifications on



REVIEW ARTICLE ONLINE FIRST
Zika Virus
March 30, 2016 | L.R. Petersen and Others
(DOI: 10.1056/NEJMra1602113)
Zika virus is rapidly spreading throughout the Americas and the Caribbean. The association with microcephaly has led the WHO to declare a public health emergency. This review describes our current understanding of the characteristics of Zika virus infection.



<http://www.nejm.org/>

JAMA-Journal of the American Medical Association

- 美国医学会出版，是世界上发行范围最广的综合性医学杂志之一。主要刊载临床及实验研究论文、编者述评、读者来信、相关书评等类型文章。
- 美国医学会还出版9种精粹期刊和一种公共卫生期刊。（未购买）
- 《JAMA》中文版：《美国医学会杂志》
从原版杂志精心挑选后汇集成刊。
其常设栏目有：原著、综述、共识报告、特讯、医学进展、约翰霍普金森医院大巡诊、临床抉择、临床心脏病学、医学新闻与展望等。
- 维普平台下载全文

The screenshot displays the JAMA website interface. At the top, there's a navigation bar with links like 'The JAMA Network', 'Journals >', 'Collections', 'Store', 'Physician Jobs', and 'About Mobile'. A search bar is also present. Below this, the JAMA logo and 'The Journal of the American Medical Association' are prominently displayed. A secondary navigation bar includes links for 'Home', 'Current Issue', 'All Issues', 'Online First', 'Collections', 'CME', 'Multimedia', 'Quizzes', 'For Authors', and 'Subscribe'. The main content area is divided into sections: 'Featured Topic' with a line graph titled 'Dual Antiplatelet Therapy After PCI', 'Current Highlights Research' featuring articles on 'Mindfulness-Based Stress Reduction vs Cognitive Behavioral Therapy for Chronic Low Back Pain', 'Metal Stents for Benign Biliary Strictures', and 'Antibiotic Exposure in Early Infancy and Weight Gain During Childhood', and 'Clinical Review & Education'.

<http://jama.jamanetwork.com/journal.aspx>

实验方法

- JoVE 视频期刊
- Cold Spring Harbor Protocols 实验室指南
- Wiley Current Protocols 实验室指南
- Springer Protocols 实验室指南

JoVE

- 可视化电子期刊，直观展现研究过程和成果
- Pubmed索引
- 可使用以下5个专辑：

Biology

Neuroscience

Immunology & Infection

Medicine

Bioengineering

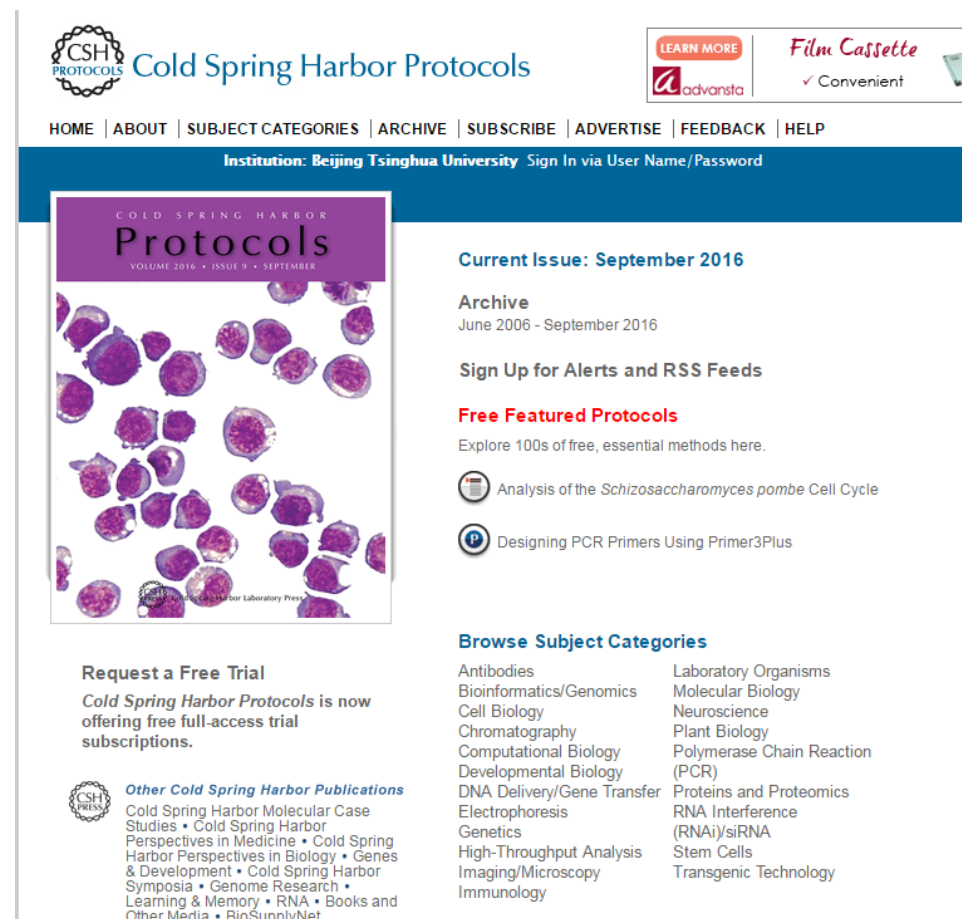
Biochemistry, Cancer Research, Genetics三个专辑可试用至10月20日

JoVE Sections	Most Recent Video Articles	Most Popular Video Articles
A All	 Generation of Integration-free Human Induced Pluripotent... Published 5/20/2015	 Understanding Early Organogenesis Using a Simplified in ... Published 1/12/2015
B Biology		
N Neuroscience		
I Immunology & Infection	 A Novel Culture Model for Human Pluripotent Stem Cell... Published 5/02/2015	 Microbead Implantation in the Zebrafish Embryo Published 7/30/2015
M Medicine		
BE Bioengineering	 Kidney Regeneration in Adult Zebrafish by Gentamicin... Published 5/03/2015	 Isolation of Human Mesenchymal Stem Cells and their... Published 2/09/2015
E Engineering		
C Chemistry		
E Environment		
BE Behavior	 Microbead Implantation in the Zebrafish Embryo Published 7/30/2015	 Efficient Generation of hiPSC Neural Lineage Specific... Published 5/26/2015
CB Developmental Biology		

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

Cold Spring Harbor Protocols

- 汇集了来自美国冷泉港实验室的主要出版社和教育机构长达60多年的实验室技术包含实验室指南28,000余条，每周更新内容
- 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
- Pubmed索引



The screenshot shows the homepage of the Cold Spring Harbor Protocols website. At the top, there is a navigation bar with links: 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 a purple book cover titled "Cold Spring Harbor Protocols VOLUME 2016 • ISSUE 9 • SEPTEMBER". To the right of the book cover, there is a section for the "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. A "Free Featured Protocols" section lists two protocols: "Analysis of the *Schizosaccharomyces pombe* Cell Cycle" and "Designing PCR Primers Using Primer3Plus". At the bottom, there is a "Browse Subject Categories" section with a grid of links to various biological fields. A "Request a Free Trial" section is also present, stating that the site is now offering free full-access trial subscriptions. A footer section lists "Other Cold Spring Harbor Publications" including Molecular Case Studies, Perspectives in Medicine, Biology, Genes & Development, Symposia, Genome Research, Learning & Memory, RNA, Books, and BioSupplyNet.

CSH PROTOCOLS Cold Spring Harbor Protocols

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HOME | ABOUT | SUBJECT CATEGORIES | ARCHIVE | SUBSCRIBE | ADVERTISE | FEEDBACK | HELP

Institution: Beijing Tsinghua University Sign In via User Name/Password

Current Issue: September 2016

Archive
June 2006 - September 2016

Sign Up for Alerts and RSS Feeds

Free Featured Protocols
Explore 100s of free, essential methods here.

- Analysis of the *Schizosaccharomyces pombe* Cell Cycle
- Designing PCR Primers Using Primer3Plus

Browse Subject Categories

Antibodies	Laboratory Organisms
Bioinformatics/Genomics	Molecular Biology
Cell Biology	Neuroscience
Chromatography	Plant Biology
Computational Biology	Polymerase Chain Reaction (PCR)
Developmental Biology	Proteins and Proteomics
DNA Delivery/Gene Transfer	RNA Interference (RNAi)/siRNA
Electrophoresis	Stem Cells
Genetics	Transgenic Technology
High-Throughput Analysis	
Imaging/Microscopy	
Immunology	

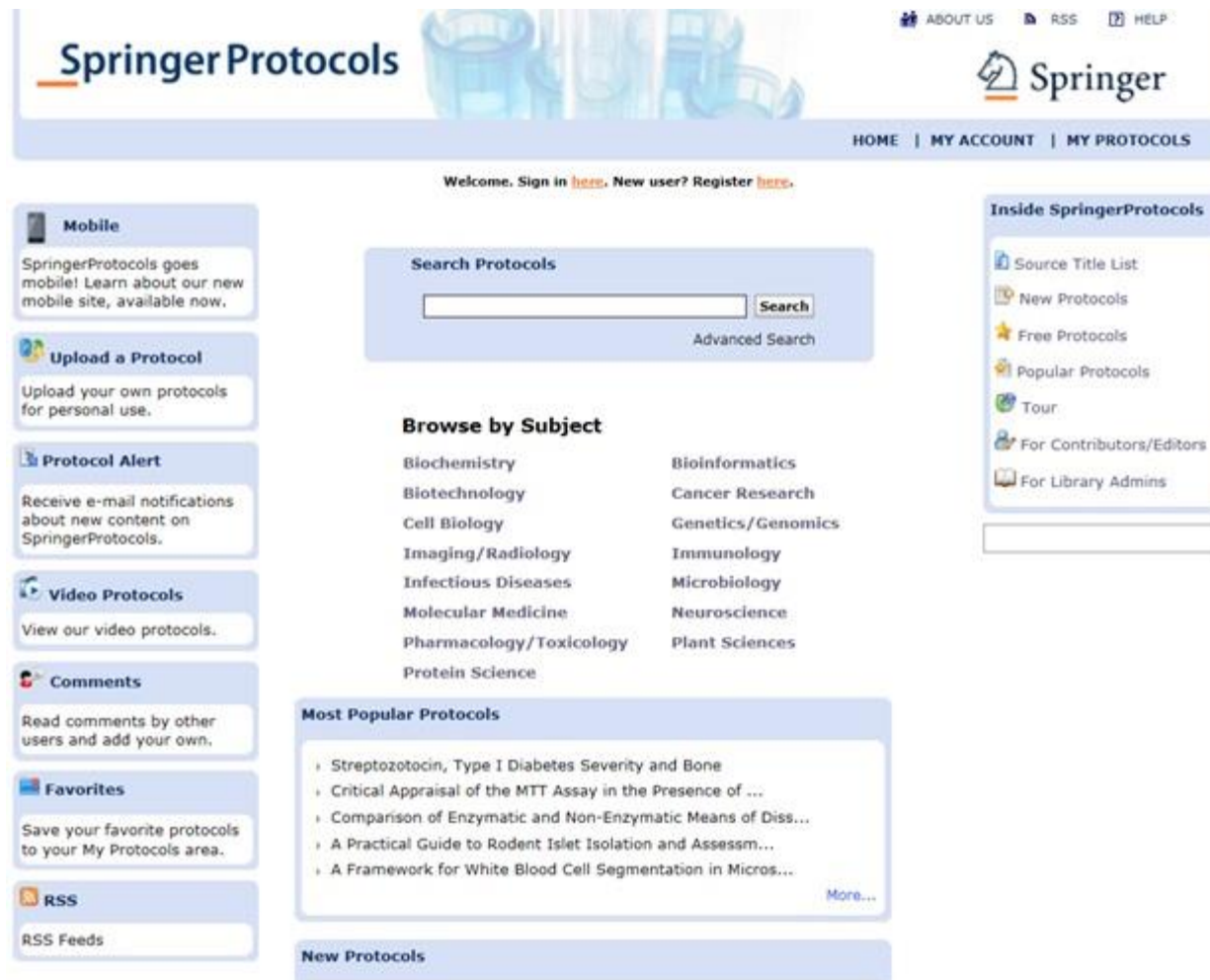
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Cold Spring Harbor Protocols is now offering free full-access trial subscriptions.

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

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



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

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

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HOME CATEGORIES TOOLS TITLES

Current Protocols Categories

▶ Bioinformatics	SHOW SUB-CATEGORY
▶ Cell Biology	SHOW SUB-CATEGORY
▶ Cell Culture	SHOW SUB-CATEGORY
▶ Chemical Biology	SHOW SUB-CATEGORY
▶ Cytometry	SHOW SUB-CATEGORY
▶ Gene Expression	SHOW SUB-CATEGORY
▶ Genetics and Genomics	SHOW SUB-CATEGORY

WEBSITE RESOURCES

- ▶ About Current Protocols
- ▶ Email Alerts: New Protocols and Webinars
- ▶ Current Protocols Newsletters
- ▶ Author Services
- ▶ Current Protocols Videos
- ▶ CP Webinars

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- ▶ Units of Measurement Conversion Tool
- ▶ G-Force/RPM Conversion Tool
- ▶ Common Laboratory Recipes Calculator

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

医疗决策

循证医学类数据库

BMJ Best Practice

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，提供最新的药物副作用和多种药物相互作用的最新证据
- 校内使用

Search Show conditions

Search BMJ Best Practice

Acute sinusitis Last updated: Mar 07, 2016

Highlights	Theory	Prevention	Diagnosis	Management	Follow Up	Resources
Summary	Definition	Primary	History & examination	Step by step	Monitoring	References
<u>Overview</u>	Epidemiology	Secondary	Investigations	Approach	Complications	Images
	Aetiology		Differential	Guidelines	Prognosis	Online resources
	Pathophysiology		Approach	Evidence		Patient leaflets
	Classification		Guidelines			Contributors
			Case history			Update history
						Related BMJ content

PDF CME / CPD certificates Bookmark Add a note

History & exam

Key factors

- symptoms <10 days (acute viral sinusitis)
- symptoms >10 days but <4 weeks (acute bacterial sinusitis)
- severe symptoms at onset (acute bacterial sinusitis)
- symptoms that worsen after an initial improvement (acute bacterial sinusitis)

Diagnostic investigations

1st investigations to order

- clinical diagnosis

Investigations to consider

- nasal endoscopy
- sinus culture
- CT sinuses (non-contrast)
- x-ray sinuses

Step by step management

Acute

suspected acute viral sinusitis

- **1st line:** supportive therapy
- **adjunct:** analgesic/antipyretic
- **adjunct:** decongestant
- **adjunct:** intranasal corticosteroid
- **adjunct:** ipratropium

<http://bestpractice.bmj.com/best-practice/welcome.html>

其他数据库和网络资源

化合物化学反应数据库

- Chembank : 小分子化合物数据库
<http://chembank.broadinstitute.org/>
- 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

- Project Tycho : 1888年以来，来自美国的每周更新的疾病报告。
<http://www.tycho.pitt.edu/>
- 爱唯医学网：临床分科室资讯，病案，视频，投稿指南
<http://www.elseviermed.cn/>
- 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>

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...
- Medsci：临床分科室资讯，在线工具，投稿指南，讨论社区
- LetPub：论文服务
- 预立：方案设计、数据分析、论文服务等

。 。 。 。 。

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初级应用

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

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：Communication，Letter周期短，篇幅小；Article内容详细，周期较长
- 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2015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

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 displays the PubMed homepage with a search bar containing the text "pre-mrna splicing". A dropdown menu is visible below the search bar, listing various related topics such as "structural basis of pre-mrna splicing", "alternative pre-mrna splicing", and "epigenetics in alternative pre-mrna splicing". The search bar is highlighted with a red box, and the text "检索词输入" (Search term input) is written in orange above it. The page also features a "PubMed Commons" section with a featured comment and a "More Resources" section with links to various databases and tools.

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

Search

Help

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

Using PubMed

PubMed Quick Start Guide

Full Text Articles

PubMed FAQs

PubMed Tutorials

New and Noteworthy

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

Topic-Specific Queries

Turn off

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, archaeabacteria, archaeal, 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]

检索结果

NCBI Resources How To Sign in to NCBI

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

Search: pre-mrna splicing

Create RSS Create alert Advanced Help

Article types

- Clinical Trial
- Review
- Customize ...

Text availability

- Abstract
- Free full text
- Full text

PubMed Commons

- Reader comments
- Trending articles

Publication dates

- 5 years
- 10 years
- Custom range...

Species

- Humans
- Other Animals

[Clear all](#)

[Show additional filters](#)

Additional filters

- ☒ Article types
- ☒ Text availability
- ☒ PubMed Commons
- ☒ Publication dates
- ☒ Species
- ☐ Languages
- ☐ Sex
- ☐ Subjects
- ☐ Journal categories
- ☐ Ages
- ☐ Search fields

Search results

Items: 1 to 20 of 7912

- [The first echinoderm poly-U-binding factor 60 kDa from Paracentrotus lividus: molecular characterization.](#)
Ren C, Chen T, Sun H, Jiang X, Hu C, Qian J, W
Fish Shellfish Immunol. 2015 Sep 8. pii: S1050-4648(15)30
PMID: 26362209
[Similar articles](#)
- [Histone H3K4 trimethylation: dynamic interplay between enhancers and promoters in embryonic stem cells.](#)
Davie JR, Xu W, Delcuve GP.
Epigenetics. 2015 Jul 15;11-11. [Epub ahead of print]

Choose Destination

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- ☐ E-mail
- ☐ Order
- ☐ My Bibliography
- ☐ Citation manager

Download 7912 items.

Format:

Sort by:

Results by year

[Download CSV](#)

Related searches

- structural basis of **pre-mrna splicing**
- mechanisms and regulation of alternative **pre-mrna splicing**
- epigenetics in alternative **pre-mrna splicing**
- pre-mrna splicing** in disease and therapeutics
- pre-mrna splicing** review

PMC Images search for pre-mrna splicing

检索结果

NCBI

Resources

How To

Sign in to NCBI

PubMed

US National Library of Medicine
National Institutes of Health

PubMed

Advanced

Search

Help

Abstract

Send to:

Full text links

Science

Full text

Save items

☆ Add to Favorites

Similar articles

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 sf [Biochem Soc Trans. 2010]

Review The role of PRP8 protein in nuclear pre-mRNA splicing in yeast. [J Cell Sci Suppl. 1995]

See reviews...

See all...

Related information

Articles frequently viewed together

Recent Activity

Turn Off Clear

Abstract

Structure of a yeast spliceosome at 3.6-angstrom resolution.

Yan C¹, Hang J¹, Wan R¹, Huang M², Wong CC², Shi Y¹.

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.

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PMID: 26292707 [PubMed - in process]

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t

+

Publication Types, Secondary Source ID

LinkOut - more resources

PubMed Commons

PubMed Commons home

0 comments

How to join PubMed Commons

高级检索

NCBI Resources How To Sign in to NCBI

PubMed Home More Resources Help

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](#)

Field Selection:

- 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

Search

History

Search

#8

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](#)

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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

#31 AND #32

AND

All Fields

[Show index list](#)

Search or [Add to history](#)

History

[Download history](#)

[Clear history](#)

Search	Add to builder	Query	Items found	Time
#31	Add	Search shi yigong	129	03:49:36
#30	Add	Search spliceosome	3043	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

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

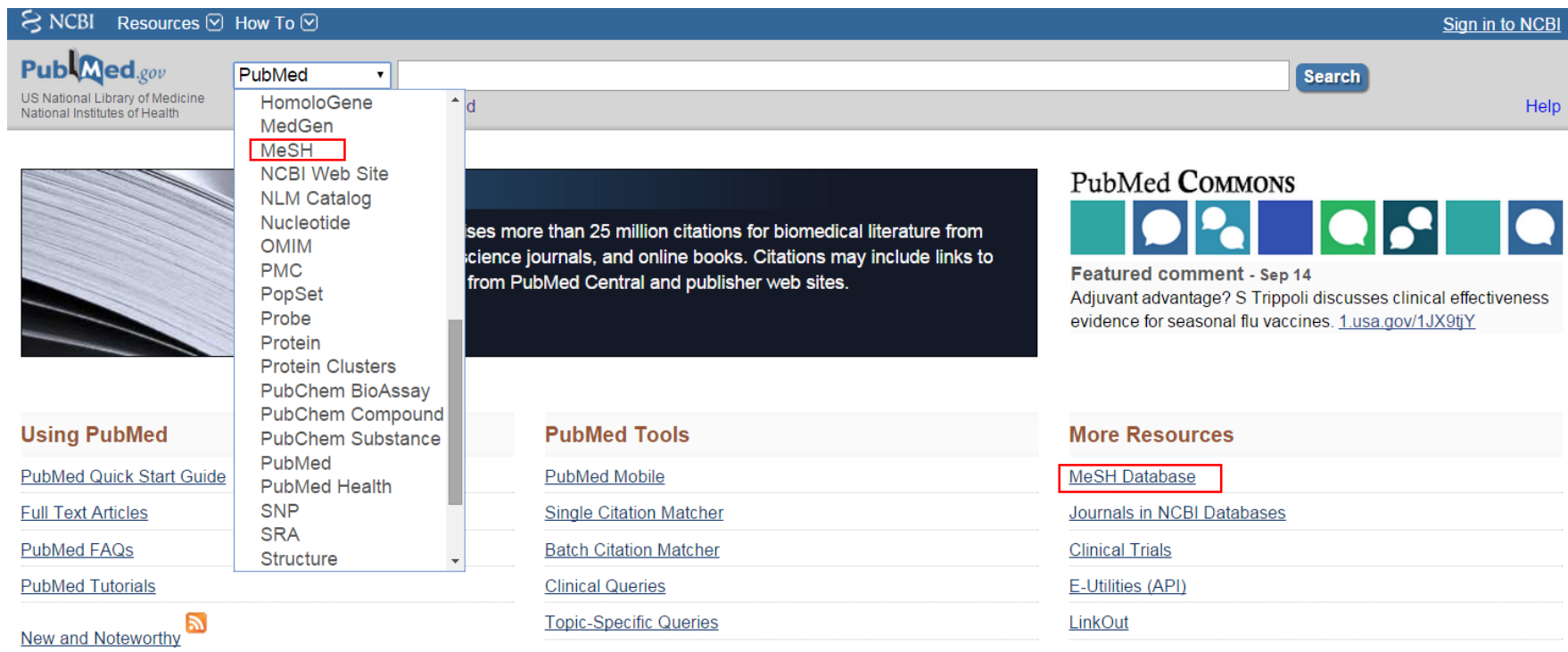
2. Mesh词表检索：Medical Subject Headings

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



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

spliceosome

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

☐ CWC22 protein, human [Supplementary Concept]

2. RefSeq NM_020943

Date introduced: February 5, 2013

☐ SAP130b protein, Arabidopsis [Supplementary Concept]

3. a component of spicing factor 3b; RefSeq NM_115380

Date introduced: December 4, 2011

☐ SAP130a protein, Arabidopsis [Supplementary Concept]

4. a component of spicing factor 3b; RefSeq NM_115378

Date introduced: December 4, 2011

☐ DDX39B protein, human [Supplementary Concept]

5. RefSeq NM_004640

Date introduced: July 20, 2004

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

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

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:

☐ anatomy and histology	☐ enzymology	☐ pathology
☐ chemistry	☐ etiology	☐ physiology
☐ classification	☐ genetics	☐ radiation effects
☐ cytology	☐ immunology	☐ ultrastructure
☐ diagnosis	☐ metabolism	☐ virology
☐ drug effects	☐ 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.

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

AND ▼

Related information

PubMed

PubMed - Major Topic

Clinical Queries

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Recent Activity

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☐ 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...](#)

Subheadings(副主题词):起限定作用, 用于描述文献中着重的面向或应用, 勾选后可缩小查询范围

Entry Terms(入口词): 规范前的不同形式

不检索下位词

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 NCBI MeSH search interface. At the top, the NCBI logo and navigation links (Resources, How To) are visible. The search bar contains the text "pre-mrna" and a "Search" button. Below the search bar, there are links for "Create alert", "Limits", and "Advanced".

The main content area shows the search results for "pre-mrna". The results are listed in a table with columns for "Summary", "20 per page", and "Send to:". The results are sorted by "Relevance". The first result is "RNA Precursors", which is highlighted. The description for "RNA Precursors" is: "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".

The second result is "mRNA Cleavage and Polyadenylation Factors", with the description: "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".

The third result is "RDM16 protein, Arabidopsis [Supplementary Concept]", with the description: "RefSeq NM_102571 Date introduced: March 19, 2014".

The fourth result is "PRP19beta, rat [Supplementary Concept]", with the description: "RefSeq NM_139333 Date introduced: March 13, 2014".

The fifth result is "Prpf8 protein, zebrafish [Supplementary Concept]", with the description: "RefSeq NM_200976".

On the right side of the interface, there is a "PubMed Search Builder" sidebar. 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 showing ".AND". A red arrow points to the "Add to search builder" button. Below the dropdown menu, there is a button labeled "Search PubMed".

Below the "PubMed Search Builder" sidebar, there is a "Find related data" section. It contains a dropdown menu labeled "Database:" with a "Select" option. Below the dropdown menu, there is a button labeled "Find items".

Below the "Find related data" section, there is a "Search details" section. It contains a text box with the query "rna precursors" [MeSH Terms] OR pre-mrna [Text Word]. Below the text box, there is a button labeled "Search" and a link labeled "See more...".

At the bottom of the interface, there is a "Recent Activity" section. It contains a search icon, the text "pre-mrna (34)", and links for "Turn Off" and "Clear".

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。



新西兰金奇异果

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Gene数据库

SSO_RS04860 chorismate-binding protein [*Sulfolobus solfataricus* P2]

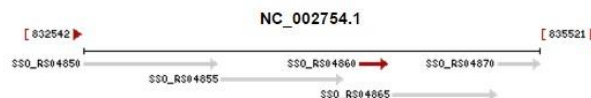
Gene ID: 1455216, updated on 6-Aug-2016

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)

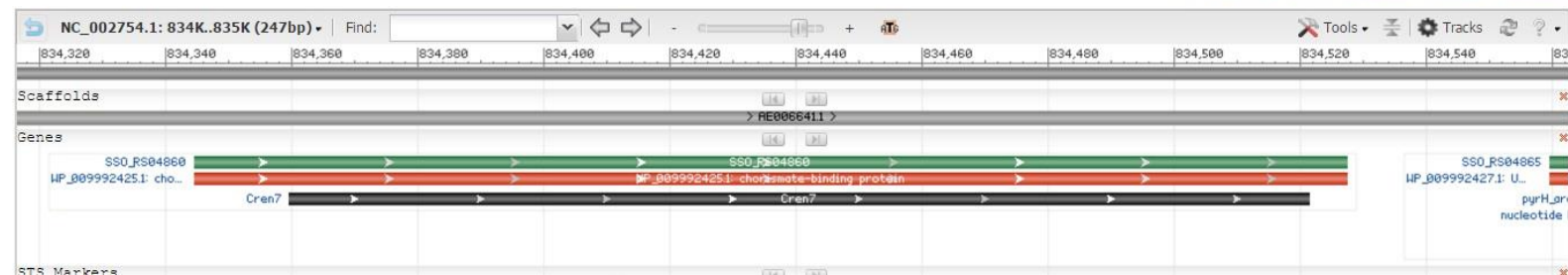


Genomic regions, transcripts, and products

Genomic Sequence: NC_002754.1

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Honey bee

Chicken

Zebrafish

Clawed frog

Arabidopsis

Rice

Yeast

Microbes

Basic BLAST

Choose a BLAST program to run.

nucleotide blast

Search a **nucleotide** database using a **nucleotide** query

Algorithms: blastn, megablast, discontinuous megablast

核酸序列比对

protein blast

Search **protein** database using a **protein** query

Algorithms: blastp, psi-blast, phi-blast, delta-blast

蛋白序列比对

blastx

Search protein database using a **translated nucleotide** query

tblastn

Search **translated nucleotide** database using a **protein** query

tblastx

Search **translated nucleotide** database using a **translated nucleotide** query

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Enter Query Sequence

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

Query subrange [Query subrange](#)

From

To

MPNFYVGSKFYVKEIKGYYVYSIENGDDGQRHTYIGSLEQIVNEYIDMKCGRDLNPGSPAWEAGIRGTFPPKTPDANDELKGVRIIDSLTSSNNSEISASDLLKFEFTLRQKKITDKTIKEYINCVRKESNNCIKAWNFYKLVLRDPPESLKIERTKPDLRVPTLEEVRKTLSTVKEYPNLYLFYRLLLESGRSEALKVLNDYNPQNEIREEGFSIYILNWTGQKSPYIFHVTLEKQIKISKAYVDKYVRRLNLVFPKYIRKFFATKALELGIPSEVDFLEGRTPGDILTKHYLDLLTLAKKYYPPLYAEWLYTF

Or, upload file 未选择任何文件 [Choose file...](#)

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Optional

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Exclude

Optional

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

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Optional

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Enter an Entrez query to limit search [Help](#)

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 [Help](#)

BLAST

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

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31-Aug-2015	PubMed	record	Design of a miRNA sponge for the mi...
31-Aug-2015	PubMed	search	mima sponge
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