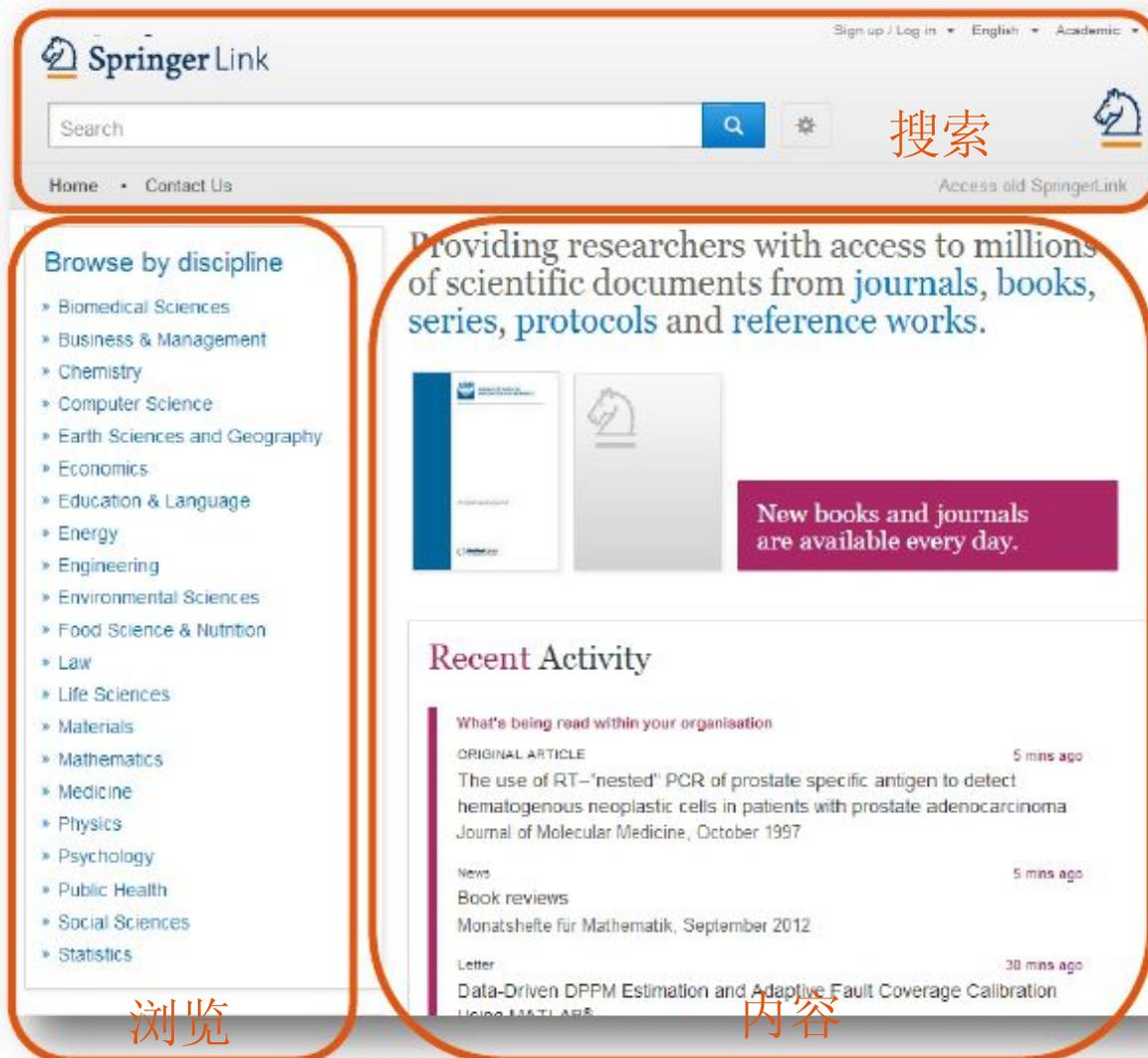




# SpringerLink使用指南

## 主页



Springer Link

Search    搜索 

Home • Contact Us Access old SpringerLink

**Browse by discipline**

- ▶ Biomedical Sciences
- ▶ Business & Management
- ▶ Chemistry
- ▶ Computer Science
- ▶ Earth Sciences and Geography
- ▶ Economics
- ▶ Education & Language
- ▶ Energy
- ▶ Engineering
- ▶ Environmental Sciences
- ▶ Food Science & Nutrition
- ▶ Law
- ▶ Life Sciences
- ▶ Materials
- ▶ Mathematics
- ▶ Medicine
- ▶ Physics
- ▶ Psychology
- ▶ Public Health
- ▶ Social Sciences
- ▶ Statistics

Providing researchers with access to millions of scientific documents from **journals, books, series, protocols and reference works.**

**New books and journals are available every day.**

**Recent Activity**

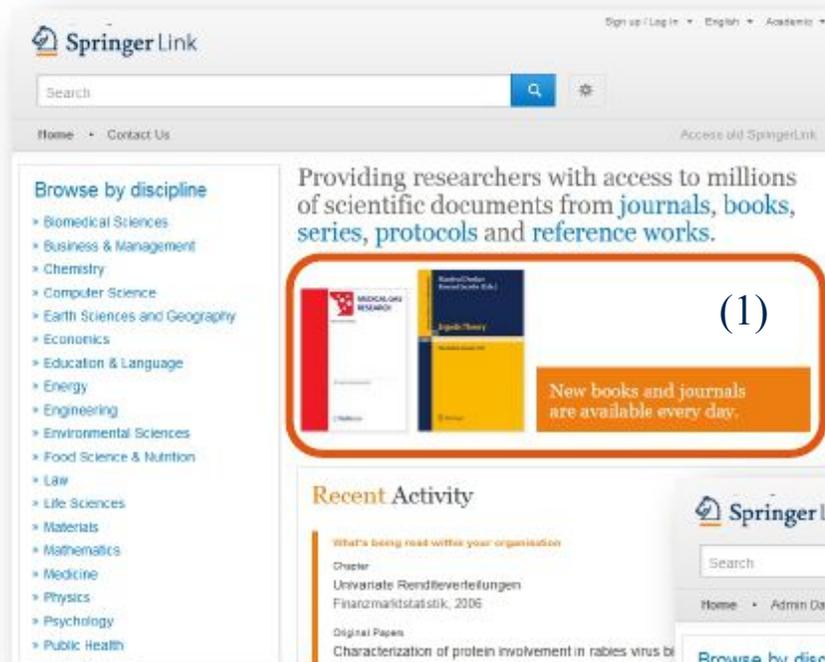
**What's being read within your organisation**

Activity	Time
ORIGINAL ARTICLE The use of RT- <i>in</i> -nested PCR of prostate specific antigen to detect hematogenous neoplastic cells in patients with prostate adenocarcinoma Journal of Molecular Medicine, October 1997	5 mins ago
News Book reviews Monatshefte für Mathematik, September 2012	5 mins ago
Letter Data-Driven DPPM Estimation and Adaptive Fault Coverage Calibration Using MATLAB	30 mins ago

主页分成三个部分:

- 搜索功能
- 浏览功能
- 根据您的个人资料提供的相关内容

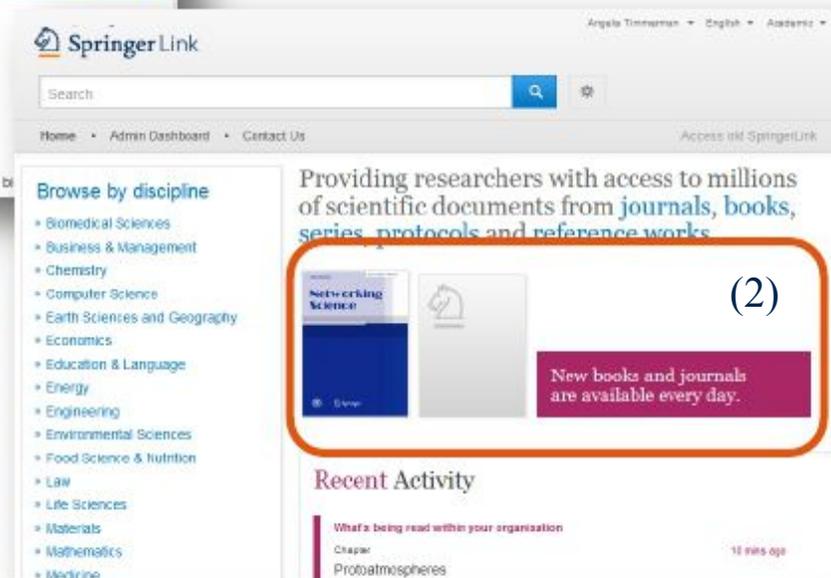
## 主页



## 内容区域

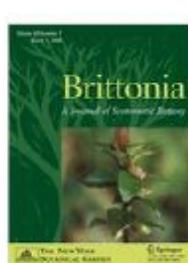
在内容区域内会按颜色识别客户类别:

1. 橙色代表匿名用户
2. 粉色代表可识别客户



## 主页 – 可识别的机构用户

Providing researchers with access to millions of scientific documents from **journals, books, series, protocols and reference works.**



New books and journals are available every day.

### Recent Activity

#### What's being read within your organisation

ORIGINAL ARTICLE 5 mins ago

Degradation activity of *Clostridium* species DC-1 in the *cis*-1,2-dichloroethylene contaminated site in the presence of indigenous microorganisms and *Escherichia coli*  
Journal of Material Cycles and Waste Management, September 2012

OriginalPaper 5 mins ago

On the origin of *Solanum nigrum*: can networks help?  
Molecular Biology Reports, February 2011

Original Article—Alimentary Tract 5 mins ago

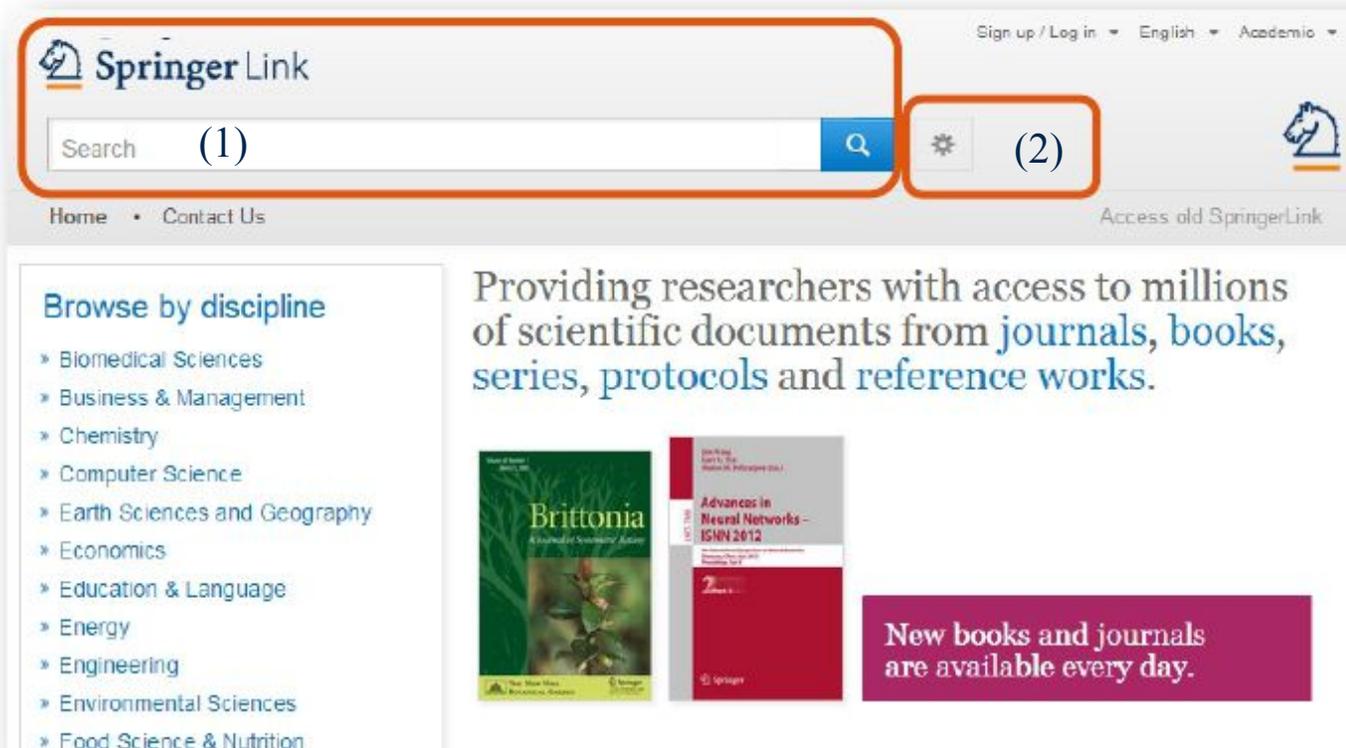
Amelioration of 2,4,6-trinitrobenzene sulfonic acid-induced colitis in mice by immunoregulatory dendritic cells  
Journal of Gastroenterology, December 2011

### 机构用户:

如果您以机构名义登入，“活动”（Activity）将显示为粉红色

在该区域内，您将会看到您所在机构最近期的下载列表

## 搜索

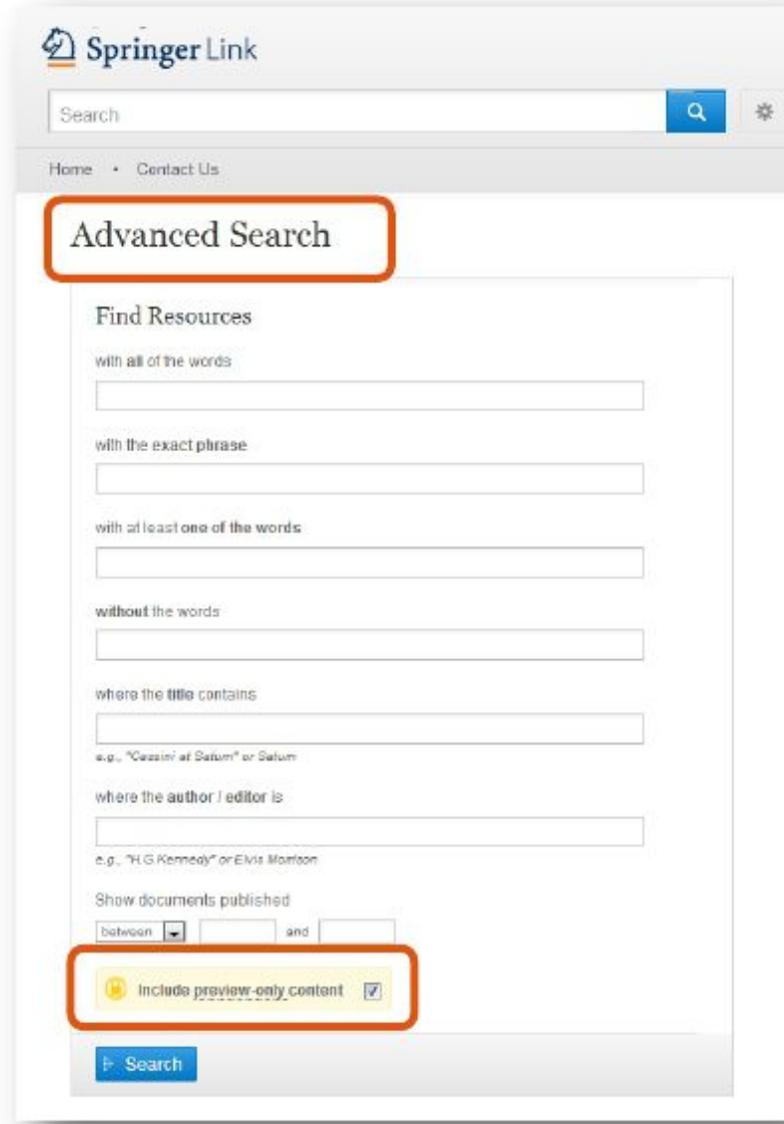


The screenshot shows the SpringerLink homepage. At the top, there is a navigation bar with the SpringerLink logo, a search bar, and utility links for 'Sign up / Log in', 'English', and 'Academic'. The search bar contains the text 'Search' and is marked with a red box and the number '(1)'. To the right of the search bar is a settings gear icon, also marked with a red box and the number '(2)'. Below the navigation bar, there is a main content area with a 'Browse by discipline' sidebar on the left, a central text block stating 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.', and a promotional banner for 'New books and journals are available every day.' with images of journal covers.

### 搜索:

1. 大多数用户通过搜索功能浏览我们的内容，因此在主页上搜索功能是最明显和最突出的
2. 同时主页还提供高级搜索和搜索帮助

## 高级搜索选项



Springer Link

Search

Home • Contact Us

### Advanced Search

Find Resources

with all of the words

with the exact phrase

with at least one of the words

without the words

where the title contains

e.g., "Cassini at Saturn" or Saturn

where the author / editor is

e.g., "H.G. Kennedy" or Elvis Mortton

Show documents published

between  and

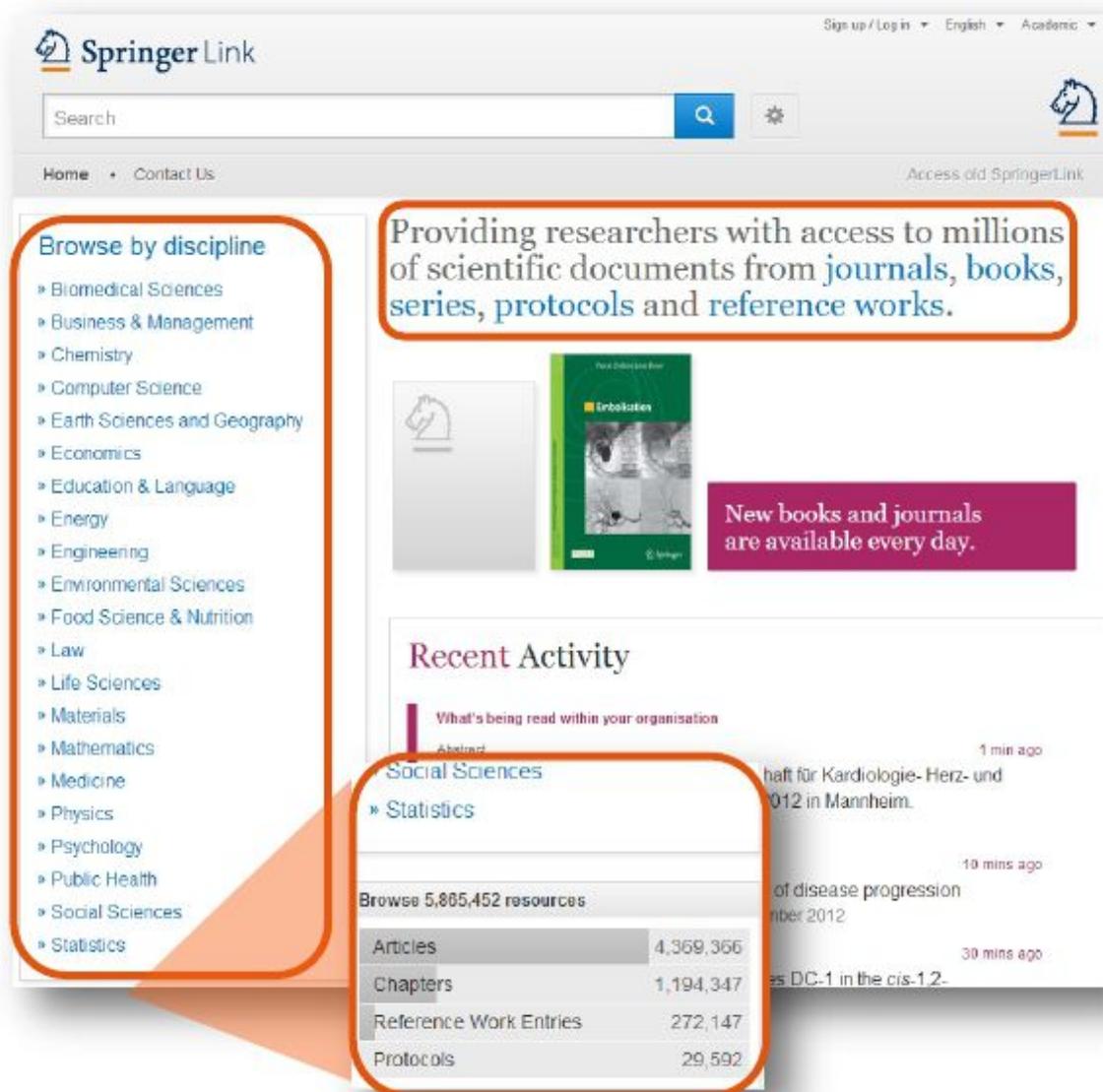
Include preview-only content

Search

用户可以通过使用高级搜索选项进一步缩小搜索范围

用户也可以限定在该机构的访问权限内搜索

## 浏览



The screenshot shows the SpringerLink homepage. On the left, a 'Browse by discipline' sidebar lists various fields of study. The main content area features a search bar, a promotional banner for scientific documents, and a 'Recent Activity' section. A table at the bottom provides a breakdown of available resources.

**Browse by discipline**

- » Biomedical Sciences
- » Business & Management
- » Chemistry
- » Computer Science
- » Earth Sciences and Geography
- » Economics
- » Education & Language
- » Energy
- » Engineering
- » Environmental Sciences
- » Food Science & Nutrition
- » Law
- » Life Sciences
- » Materials
- » Mathematics
- » Medicine
- » Physics
- » Psychology
- » Public Health
- » Social Sciences
- » Statistics

**Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.**

**Recent Activity**

What's being read within your organisation

Browse 5,885,452 resources	
Articles	4,369,366
Chapters	1,194,347
Reference Work Entries	272,147
Protocols	29,592

### 浏览:

在页面左方的框中，浏览功能按学科分类

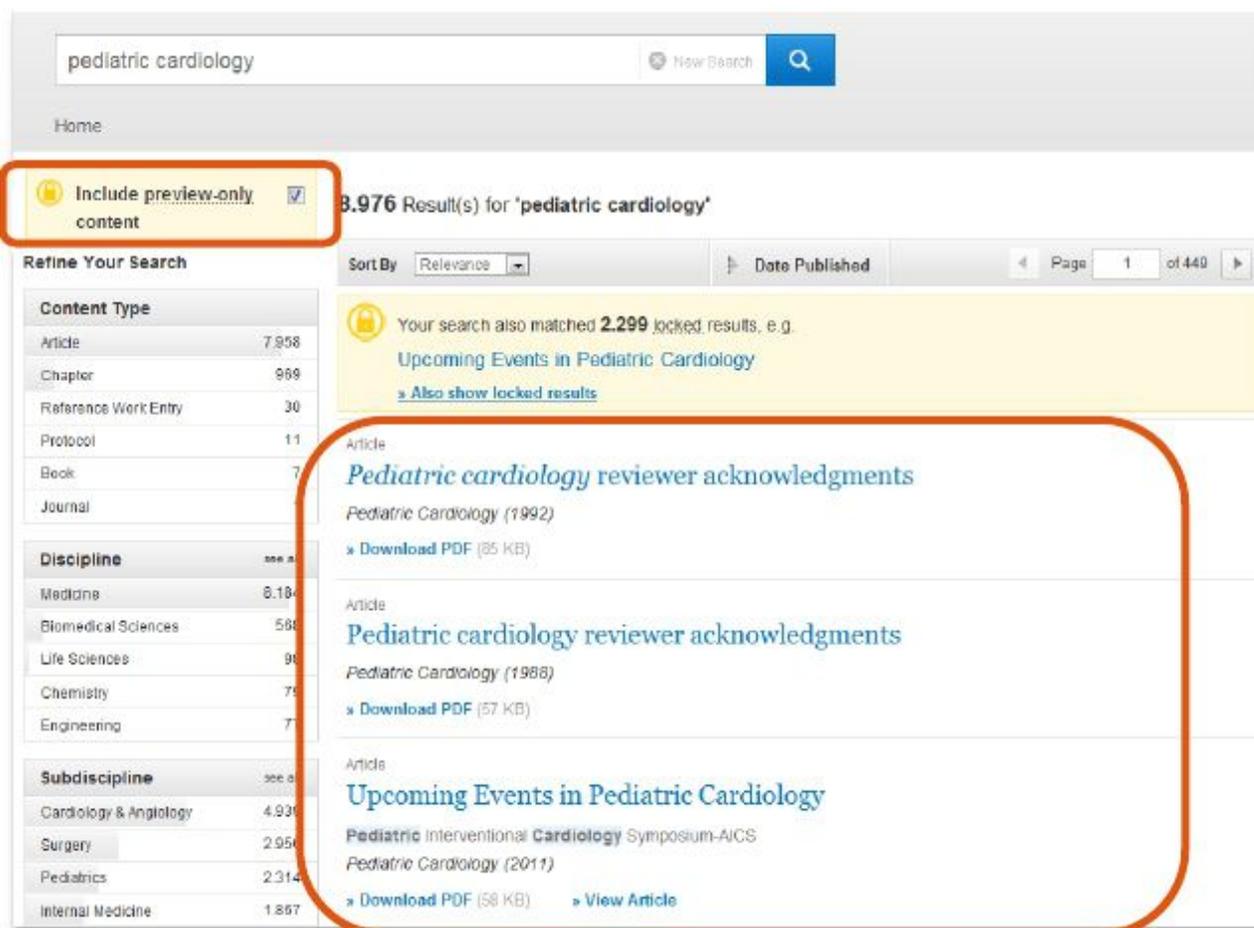
如果您点击某个学科，您将会进入到该学科的新页面

您也可以按内容的类型来浏览

在学科导航框的下方，您可以找到详细的内容类型:

- (期刊) 文章
- 参考文献
- (图书) 章节
- 实验室指南

## 搜索结果页面



The screenshot shows the SpringerLink search results page for the query 'pediatric cardiology'. The search bar at the top contains the text 'pediatric cardiology' and a search button. Below the search bar, there is a 'Home' link and a checkbox labeled 'Include preview-only content' which is checked. The search results are displayed in a list format, with the first three results highlighted by a red rounded rectangle. The first result is 'Pediatric cardiology reviewer acknowledgments' from 'Pediatric Cardiology (1992)', with a 'Download PDF (85 KB)' link. The second result is 'Pediatric cardiology reviewer acknowledgments' from 'Pediatric Cardiology (1988)', with a 'Download PDF (57 KB)' link. The third result is 'Upcoming Events in Pediatric Cardiology' from 'Pediatric Interventional Cardiology Symposium-AICS' and 'Pediatric Cardiology (2011)', with a 'Download PDF (58 KB)' link and a 'View Article' link. On the left side, there is a 'Refine Your Search' section with filters for 'Content Type' and 'Discipline'. The 'Content Type' filter shows counts for Article (7,958), Chapter (969), Reference Work Entry (30), Protocol (11), Book (7), and Journal. The 'Discipline' filter shows counts for Medicine (6,184), Biomedical Sciences (580), Life Sciences (98), Chemistry (79), and Engineering (7). The 'Subdiscipline' filter shows counts for Cardiology & Angiology (4,931), Surgery (2,951), Pediatrics (2,314), and Internal Medicine (1,857). The search results are sorted by 'Relevance' and are on page 1 of 440.

搜索结果:

您可以在页面右下角找到搜索结果列表

在默认情况下, 将显示所有的搜索结果

如果您只想看到可下载的搜索结果, 取消黄色框上的勾选。我校只购买了数据库中的期刊论文, 取消黄色框上的勾选后, 即显示为可下载全文的期刊论文列表。

## 搜索结果页面

Article (1)  
**DOE Bioenergy Center Special Issue: The Great Lakes Bioenergy Research Center (GLBRC) (2)**  
This issue of *BioEnergy Research*... is the second of three special issues to feature work from the US Department of Energy Bioenergy Centers. This special issue is focused on research supported by the Great Lakes (3)  
Michael D. Casler in *BioEnergy Research* (2010) (5)  
» Download PDF (60 KB) » View Article (6)

---

Article  
**The DOE BioEnergy Science Center—a U.S. Department of Energy Bioenergy Research Center**  
The BioEnergy Science Center, a nationally and internationally peer ... as a U.S. Department of Energy Bioenergy Research Center. This Oak Ridge National Laboratory-led ... for its significant contributions in th... Russ Miller, Martin Keller in *In Vitro Cellular & Developmental Biology - Plant* (2009)  
» Download PDF (308 KB) » View Article

---

Article  
**The US Department of Energy Great Lakes Bioenergy Research Center: Midwestern Biomass as a Resource for Renewable Fuels**  
The Great Lakes Bioenergy Research Center is one of three Bioenergy Research Centers establish by the US Department of ... of liquid fuels derived from biomass. The research is focused on converting plant biomass... Steven Slater, Kenneth Keegstra, Timothy J. Donohue in *BioEnergy Research* (2010)  
» Download PDF (87 KB) » View Article

搜索结果页面的列表结构:

1. 内容类型
2. 内容标题
3. 内容描述
4. 所列内容的作者
5. 在何处以何种产品形式出版
6. 全文下载PDF或以HTML格式浏览

## 搜索结果页面

Chapter (1)  
**MRSA in der Phlebologie**  
Chronische Ulzera mit den Problemen der Superinfektion sind in der Phlebologie ein altbekanntes und hinreichend gewürdigtes Problem. Mit der zunehmenden Verbreitung multiresistenter Keime hat dieses Problem...  
Dr. med. H. Nüllen, Dr. med. U. Kamphausen... in *Diagnostik und Therapie der Varikose (2010)*  
» [Download PDF](#) (118 KB)

---

Article  
**Appearance of Methicillin-Resistant *Staphylococcus Aureus* (MRSA) Sensitive to Gentamicin in a Hospital with a Previous Endemic Distinct MRSA**  
Fei Gao, David Machin in *European Journal of Epidemiology (2004)*  
» [Download PDF](#) (57 KB)

---

Chapter  
**Community-Acquired MRSA (CA-MRSA)**  
*Lexikon der Infektionskrankheiten des Menschen (2009)*  
» [Download PDF](#) (85 KB)

---

Book  
**Methicillin-Resistant *Staphylococcus aureus* (MRSA) Protocols**  
Yinduo Ji in *Methods in Molecular Biology (2007)*  


### 内容类型

搜索结果将会有以下类型:

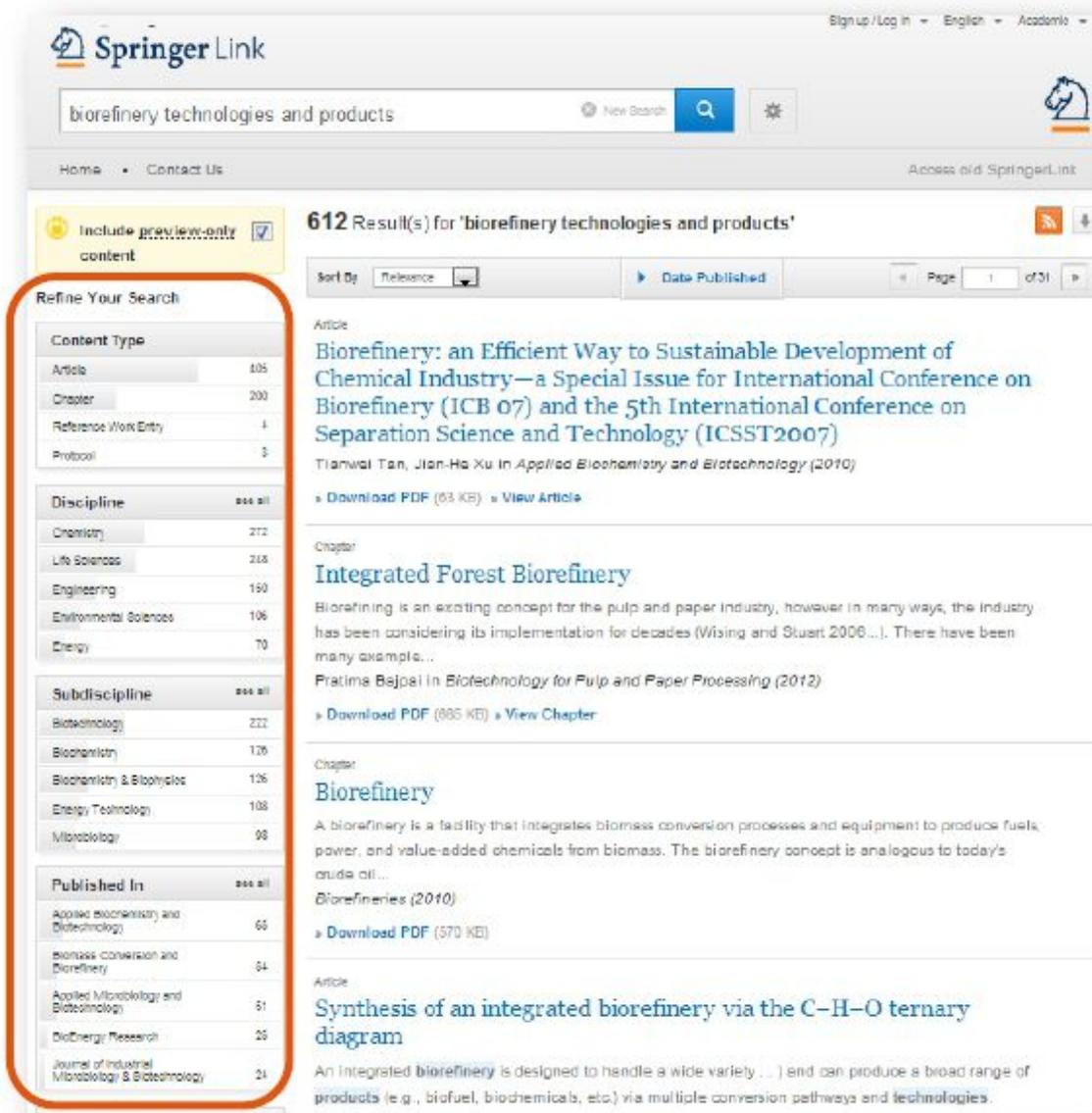
### 较大的分类:

- 丛书 (图书)
- 图书 (章节或指南)
- 期刊 (文章)
- 参考工具书

### 细分:

- 章节
- 指南
- 文章
- 参考工具书条目

## 搜索结果页面



Springer Link

biorefinery technologies and products

612 Result(s) for 'biorefinery technologies and products'

Sort By: Relevance | Date Published | Page 1 of 31

Refine Your Search

Content Type

Article	405
Chapter	200
Reference Work Entry	4
Protocol	3

Discipline

Chemistry	272
Life Sciences	214
Engineering	150
Environmental Sciences	106
Energy	70

Subdiscipline

Biotechnology	222
Biochemistry	126
Biochemistry & Biophysics	126
Energy Technology	108
Microbiology	98

Published In

Applied Biochemistry and Biotechnology	66
Biomass Conversion and Biorefinery	64
Applied Microbiology and Biotechnology	51
BioEnergy Research	26
Journal of Industrial Microbiology & Biotechnology	24

Article

**Biorefinery: an Efficient Way to Sustainable Development of Chemical Industry—a Special Issue for International Conference on Biorefinery (ICB 07) and the 5th International Conference on Separation Science and Technology (ICSST2007)**

Tianwei Tan, Jian-Ha Xu In *Applied Biochemistry and Biotechnology* (2010)

Download PDF (63 KB) View Article

Chapter

**Integrated Forest Biorefinery**

Biorefining is an exciting concept for the pulp and paper industry, however in many ways, the industry has been considering its implementation for decades (Wising and Stuert 2006...). There have been many examples...

Pratima Bajpai In *Biotechnology for Pulp and Paper Processing* (2012)

Download PDF (805 KB) View Chapter

Chapter

**Biorefinery**

A biorefinery is a facility that integrates biomass conversion processes and equipment to produce fuels, power, and value-added chemicals from biomass. The biorefinery concept is analogous to today's crude oil...

Biorefineries (2010)

Download PDF (570 KB)

Article

**Synthesis of an integrated biorefinery via the C–H–O ternary diagram**

An integrated biorefinery is designed to handle a wide variety ... and can produce a broad range of products (e.g., biofuel, biochemicals, etc.) via multiple conversion pathways and technologies.

聚类选项:

在页面左方有聚类选项帮助您优化搜索结果

聚类选项包括:

- 内容类型
- 学科
- 子学科
- 出版于...
- 作者
- 语言

## 搜索结果页面



253.840 Result(s) for 'oncology'

Sort By: Relevance (selected), Date Published, Newest First, Oldest First

Chapter: Comprendre le score gériatrique: recommandations de la « Task Force on CGA of the International Society of Geriatric Oncology (SIOG) »

Un quart des Européens aura plus de 65 ans d'ici 2030, et dans ce segment l'incidence des cancers augmente à 11 fois celle du sujet plus jeune. Pour mieux évaluer ces personnes sur le plan social et médical,...

M. Aapro in *Cancer du sein* (2007)

» Download PDF (111 KB)

Article: European Society of Gynaecological Oncology (ESGO)

European Society of Gynaecological Oncology

K. Münsstedt in *Der Gynäkologe* (2002)

» Free Preview » Get Access

No Access

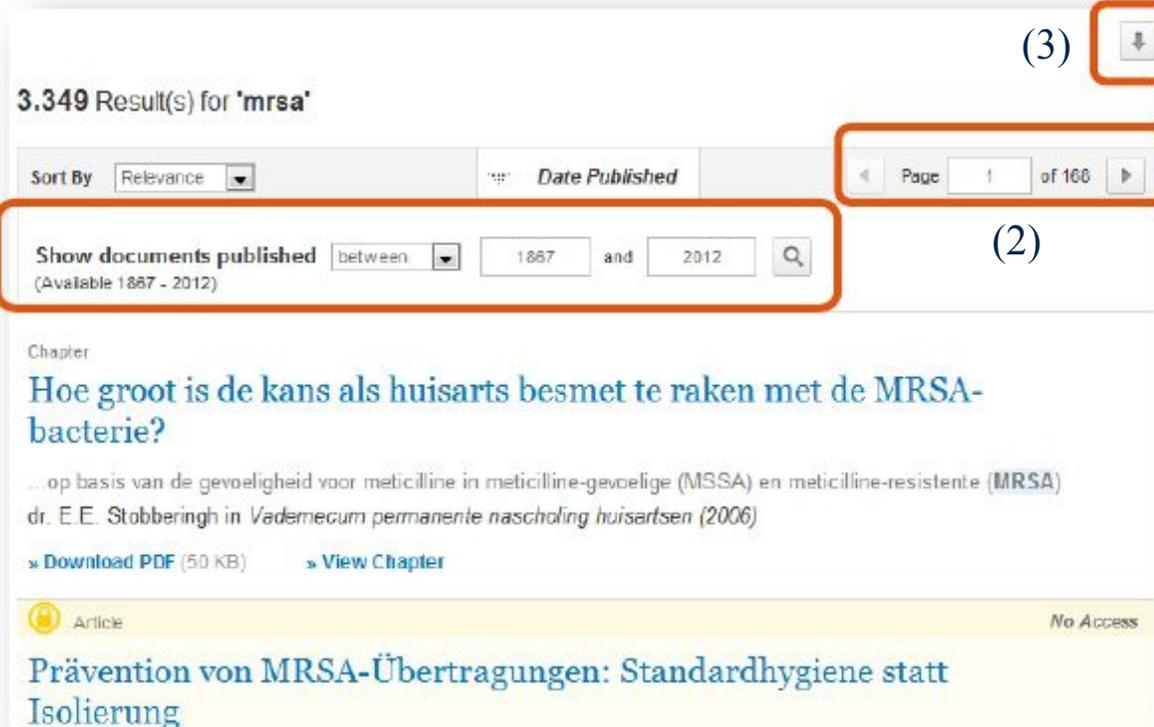
### 分类

预设情况下，搜索结果按相关性排序

更多搜索排序选项:

- 按时间顺序由新到旧排序
- 按时间顺序由旧到新排序

## 搜索结果页面



(1) **Show documents published** between 1867 and 2012 (Available 1867 - 2012)

(2) Page 1 of 166

(3) 

Chapter  
**Hoe groot is de kans als huisarts besmet te raken met de MRSA-bacterie?**  
...op basis van de gevoeligheid voor meticilline in meticilline-gevoelige (MSSA) en meticilline-resistente (MRSA)  
dr. E.E. Stobberingh in *Vademecum permanente nascholing huisartsen (2006)*  
» [Download PDF \(50 KB\)](#) » [View Chapter](#)

Article No Access  
**Prävention von MRSA-Übertragungen: Standardhygiene statt Isolierung**

### 1. 按出版年限搜索

您可以精确定位到某出版年限

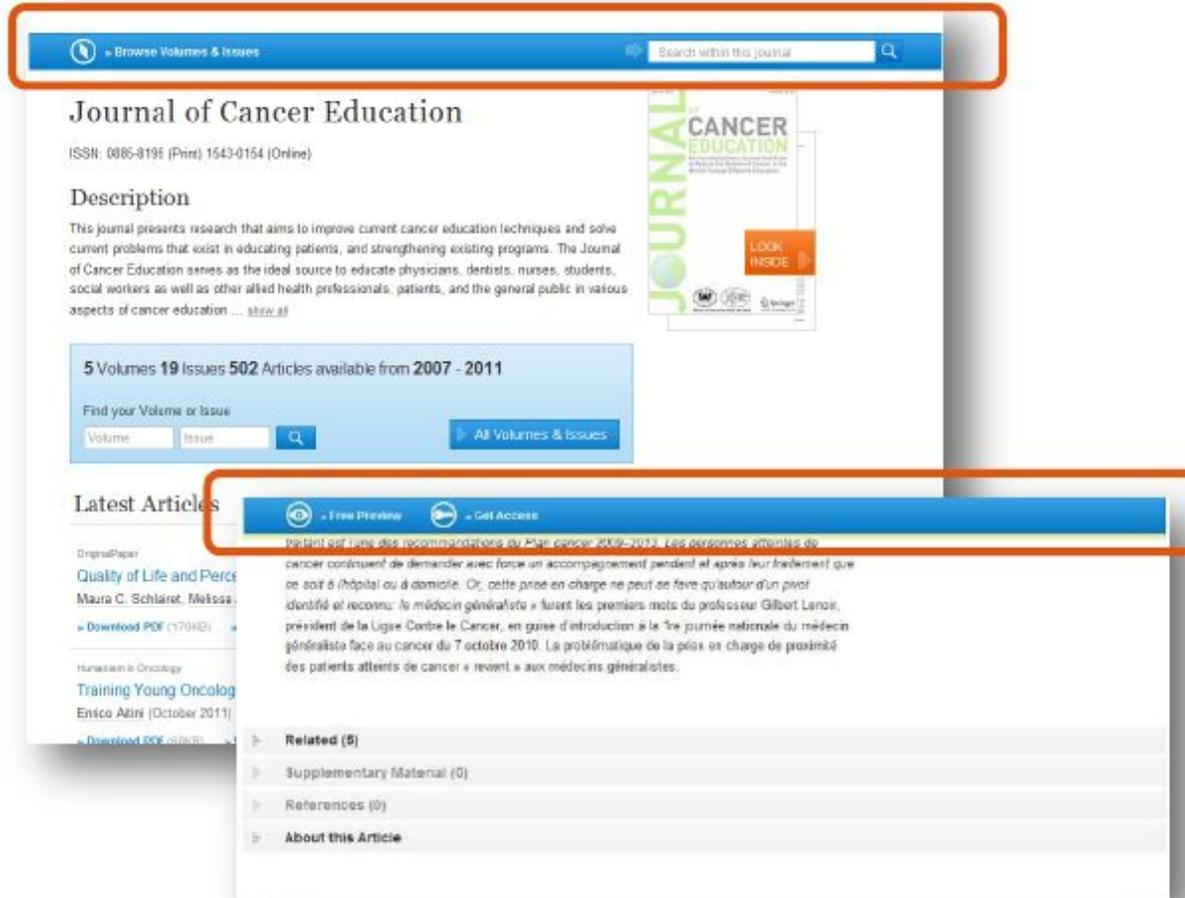
### 2. 页码

在搜索时，您可以输入页码跳转到任何页面

### 3. 下载列表:

在页码右上方，点击箭头可以下载CSV格式文件

## 产品页面



蓝色条状框

在页面的最上方，即使页面向下滚动，蓝条状框将一直显示

此功能在不同的页面会有不同的显示

## 开放获取标记



开放获取标记在以下内容页面显示:

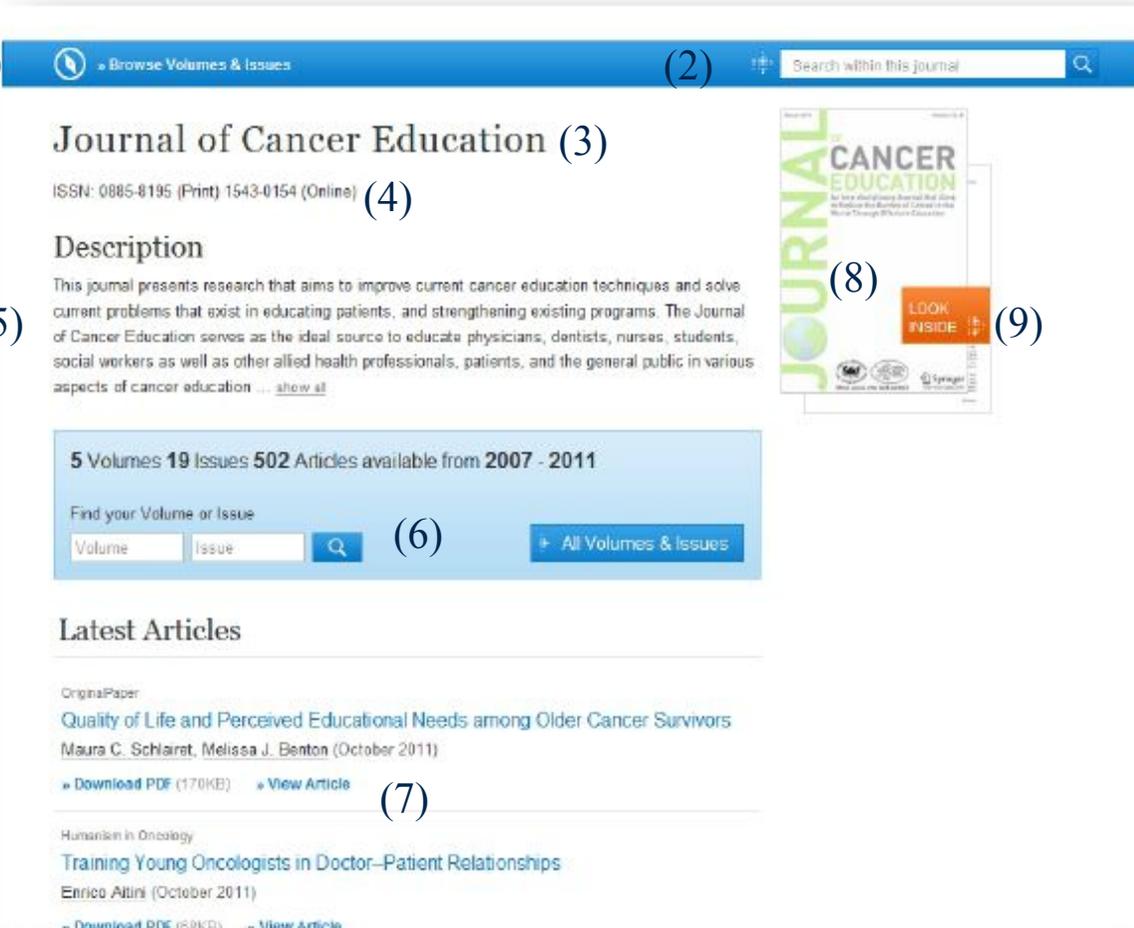
1. 文章/章节页面
2. 搜索结果页面
3. 期刊/图书主页



## 期刊主页

- 功能概述
- 在此期刊内容中搜索
- 在此期刊内按关键词搜索
- 卷和期的导航
- 所有卷和期的搜索结果
- 关于此期刊

## 期刊主页



(1) [Browse Volumes & Issues](#)

(2) Search within this journal

### Journal of Cancer Education (3)

ISSN: 0885-8195 (Print) 1543-0154 (Online) (4)

#### Description (5)

This journal presents research that aims to improve current cancer education techniques and solve current problems that exist in educating patients, and strengthening existing programs. The Journal of Cancer Education serves as the ideal source to educate physicians, dentists, nurses, students, social workers as well as other allied health professionals, patients, and the general public in various aspects of cancer education ... [show all](#)

(8) **JOURNAL OF CANCER EDUCATION**

(9) LOOK INSIDE

5 Volumes 19 Issues 502 Articles available from 2007 - 2011

Find your Volume or Issue (6)

Volume  Issue

#### Latest Articles

OriginalPaper

[Quality of Life and Perceived Educational Needs among Older Cancer Survivors](#)  
Maura C. Schlairet, Melissa J. Benton (October 2011)

[Download PDF \(170KB\)](#) [View Article](#) (7)

Humanism in Oncology

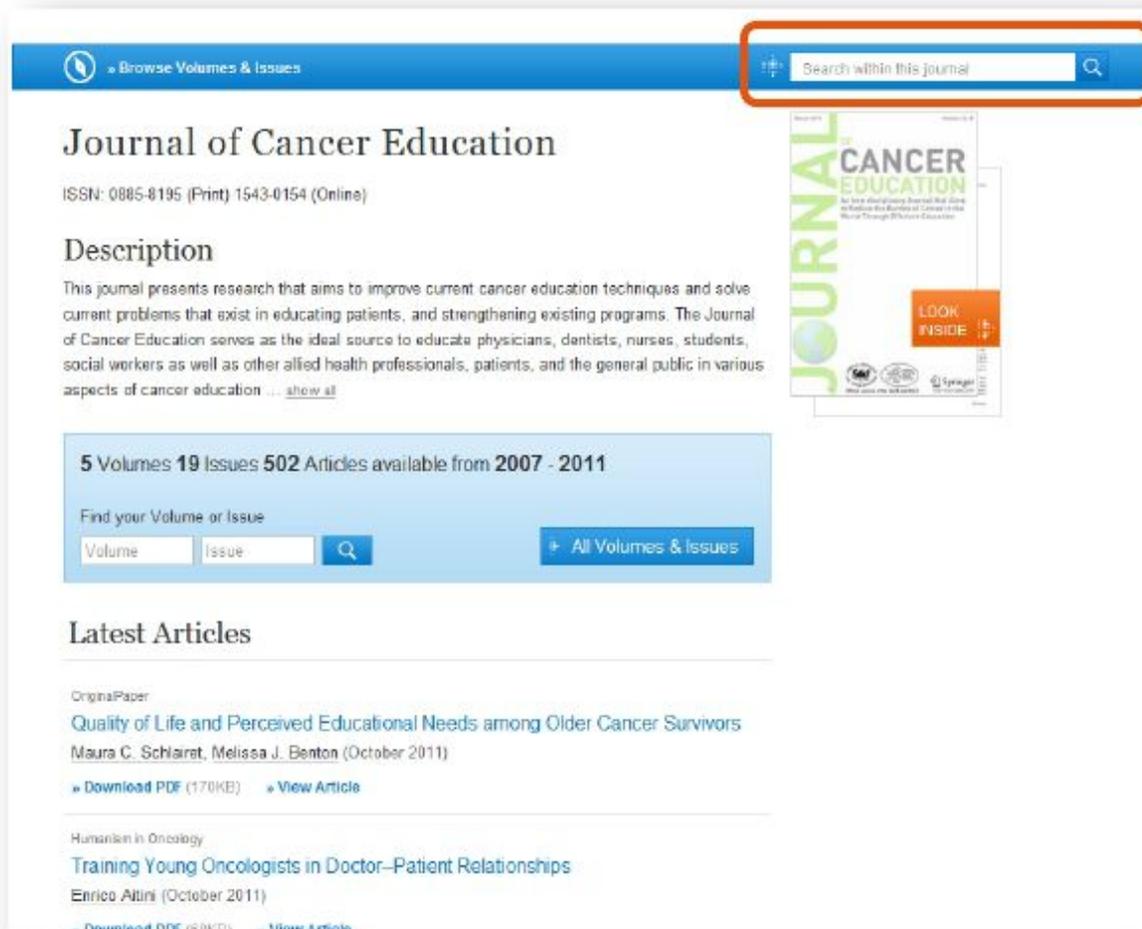
[Training Young Oncologists in Doctor-Patient Relationships](#)  
Enrico Attini (October 2011)

[Download PDF \(58KB\)](#) [View Article](#)

### 功能预览:

1. 浏览卷和期
2. 在此期刊内搜索
3. 期刊标题
4. 期刊 ISSN
5. 期刊描述
6. 卷和期的导航
7. 最新文章列表
8. 期刊封面
9. 查看内容

## 期刊主页– 在此期刊内搜索



Journal of Cancer Education

ISSN: 0885-0195 (Print) 1543-0154 (Online)

**Description**

This journal presents research that aims to improve current cancer education techniques and solve current problems that exist in educating patients, and strengthening existing programs. The Journal of Cancer Education serves as the ideal source to educate physicians, dentists, nurses, students, social workers as well as other allied health professionals, patients, and the general public in various aspects of cancer education ... [show all](#)

**5 Volumes 19 Issues 502 Articles available from 2007 - 2011**

Find your Volume or Issue

Volume  Issue

**Latest Articles**

Original Paper

**Quality of Life and Perceived Educational Needs among Older Cancer Survivors**  
Maura C. Schiaffari, Melissa J. Benton (October 2011)  
[Download PDF \(170KB\)](#) [View Article](#)

Humanism in Oncology

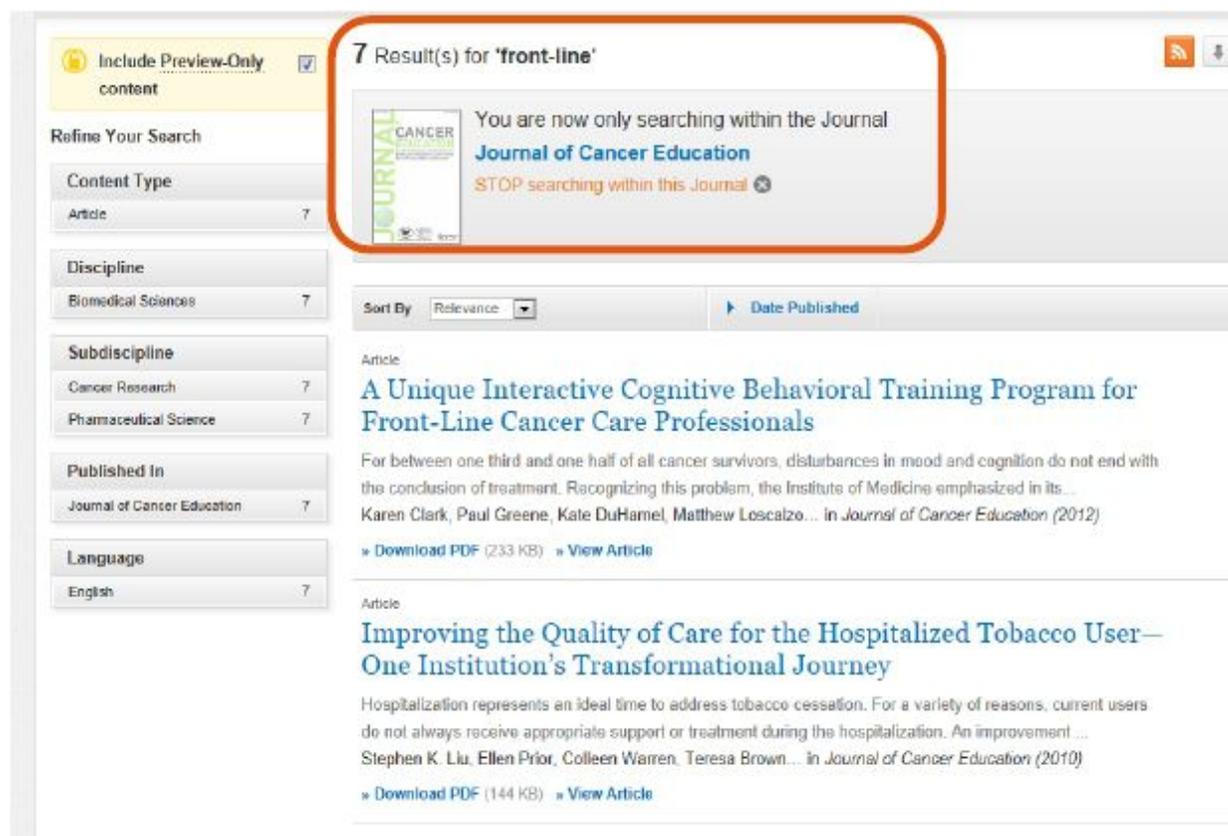
**Training Young Oncologists in Doctor–Patient Relationships**  
Enrico Altini (October 2011)  
[Download PDF \(5.8KB\)](#) [View Article](#)

在此期刊内搜索:

如果您想要搜索相关文章，可以在该期刊内搜索

搜索结果将以列表形式显示，跳转到新的页面

## 搜索结果页面



The screenshot shows a search results page on SpringerLink. The search term is 'front-line', and there are 7 results. The page is filtered to show only preview-only content. The search results are sorted by relevance. The first result is an article titled 'A Unique Interactive Cognitive Behavioral Training Program for Front-Line Cancer Care Professionals' from the Journal of Cancer Education (2012). The second result is an article titled 'Improving the Quality of Care for the Hospitalized Tobacco User—One Institution's Transformational Journey' from the Journal of Cancer Education (2010). The search results are displayed in a list format with a sidebar for refining the search.

7 Result(s) for 'front-line'

You are now only searching within the Journal  
**Journal of Cancer Education**  
STOP searching within this Journal

Sort By: Relevance | Date Published

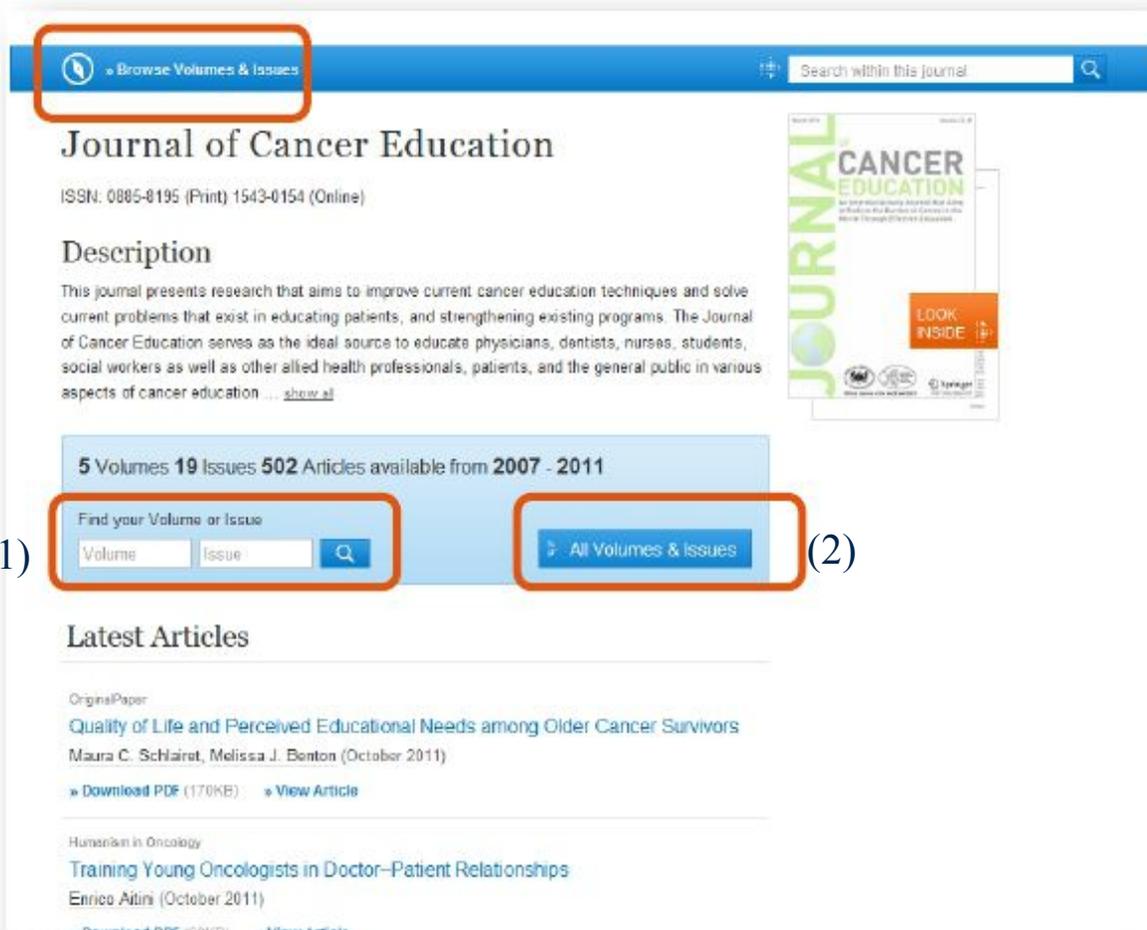
Article  
**A Unique Interactive Cognitive Behavioral Training Program for Front-Line Cancer Care Professionals**  
Far between one third and one half of all cancer survivors, disturbances in mood and cognition do not end with the conclusion of treatment. Recognizing this problem, the Institute of Medicine emphasized in its...  
Karen Clark, Paul Greene, Kate DuHamel, Matthew Loscalzo... in *Journal of Cancer Education* (2012)  
» Download PDF (233 KB) » View Article

Article  
**Improving the Quality of Care for the Hospitalized Tobacco User—One Institution's Transformational Journey**  
Hospitalization represents an ideal time to address tobacco cessation. For a variety of reasons, current users do not always receive appropriate support or treatment during the hospitalization. An improvement ...  
Stephen K. Liu, Ellen Prior, Colleen Warren, Teresa Brown... in *Journal of Cancer Education* (2010)  
» Download PDF (144 KB) » View Article

在此期刊内用关键词搜索:

在搜索列表的上方会显示搜索条件和期刊名称

## 期刊主页

(3) 

(1) Find your Volume or Issue

(2) All Volumes & Issues

Journal of Cancer Education

ISSN: 0885-0195 (Print) 1543-0154 (Online)

Description

This journal presents research that aims to improve current cancer education techniques and solve current problems that exist in educating patients, and strengthening existing programs. The Journal of Cancer Education serves as the ideal source to educate physicians, dentists, nurses, students, social workers as well as other allied health professionals, patients, and the general public in various aspects of cancer education ... [show all](#)

5 Volumes 19 Issues 502 Articles available from 2007 - 2011

Find your Volume or Issue

Volume Issue

All Volumes & Issues

Latest Articles

OriginalPaper

Quality of Life and Perceived Educational Needs among Older Cancer Survivors

Maura C. Schlairet, Melissa J. Benton (October 2011)

Download PDF (170KB) View Article

Humanism in Oncology

Training Young Oncologists in Doctor-Patient Relationships

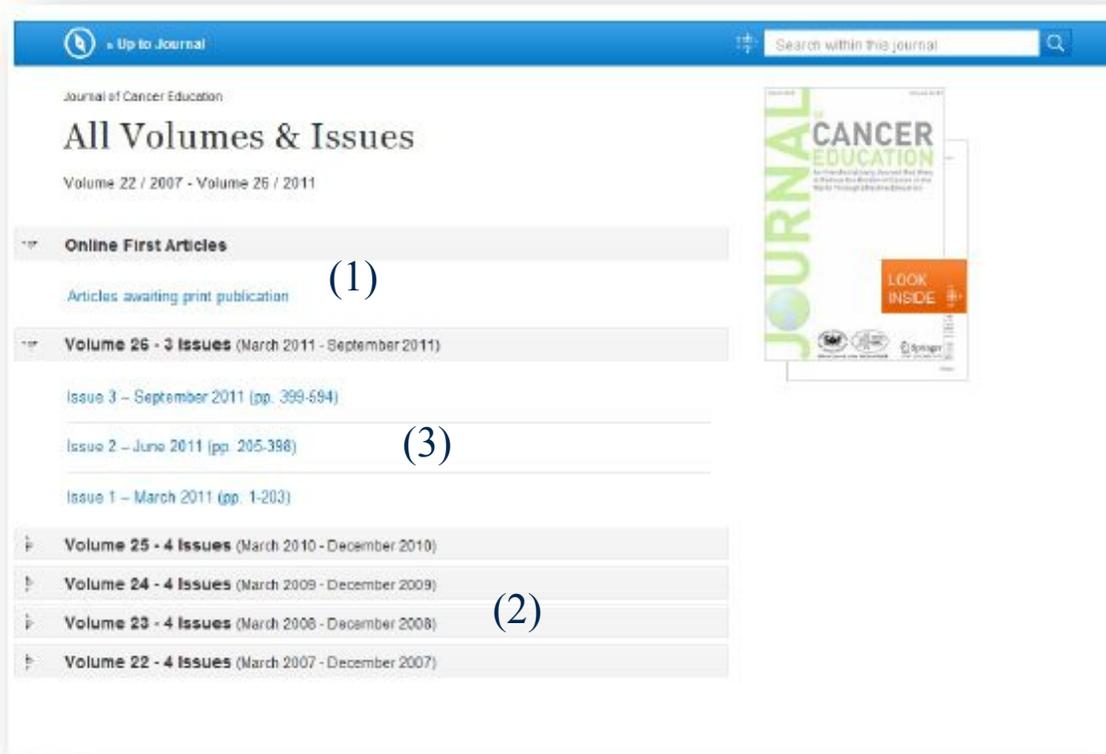
Enrico Aitini (October 2011)

Download PDF (68KB) View Article

### 卷和期导航:

1. 在该主页内容描述的下方蓝色框中，您可以搜索到具体的卷和期
2. 如果您想要浏览所有的卷和期，您可以按下“All Volumes and Issues”选项
3. 您也可以使用主页上方的链接，浏览卷和期 “Browse Volumes & Issues”

## 期刊主页

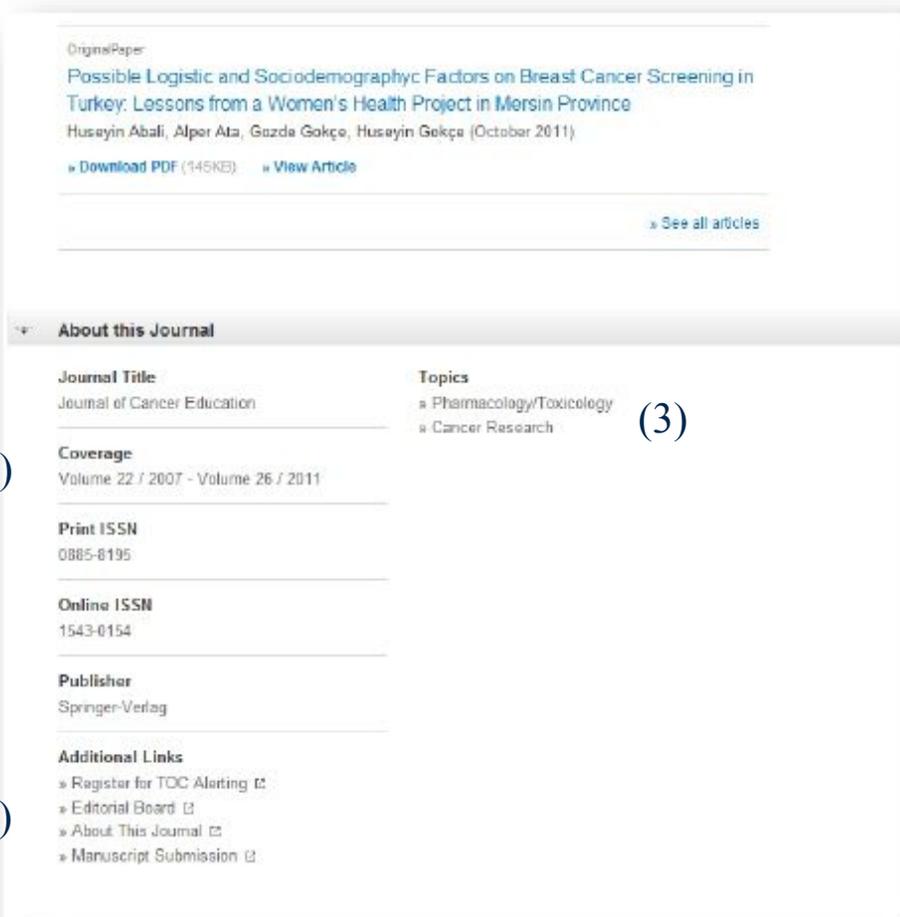


The screenshot shows the journal homepage for 'Journal of Cancer Education'. At the top, there is a navigation bar with 'Up to Journal' and a search box. Below the journal title, the page is titled 'All Volumes & Issues' and shows the range 'Volume 22 / 2007 - Volume 26 / 2011'. The main content area is divided into sections: 'Online First Articles' (labeled (1)), 'Volume 26 - 3 Issues' (March 2011 - September 2011), and a list of previous volumes (Volume 25, 24, 23, 22) shown in grey (labeled (2)). The 'Volume 26' section lists three issues: 'Issue 3 - September 2011 (pp. 399-694)', 'Issue 2 - June 2011 (pp. 205-398)' (labeled (3)), and 'Issue 1 - March 2011 (pp. 1-203)'. On the right side, there is a cover image of the journal with a 'LOOK INSIDE' button.

### 所有的卷和期

1. 在页面上方，您可以看到最新的内容链接
2. 过往期刊将会以灰色显示
3. 点击此卷显示条，您可以看到该卷的内容

## 期刊主页



The screenshot shows a journal page with the following content:

Original Paper  
Possible Logistic and Sociodemographic Factors on Breast Cancer Screening in Turkey: Lessons from a Women's Health Project in Mersin Province  
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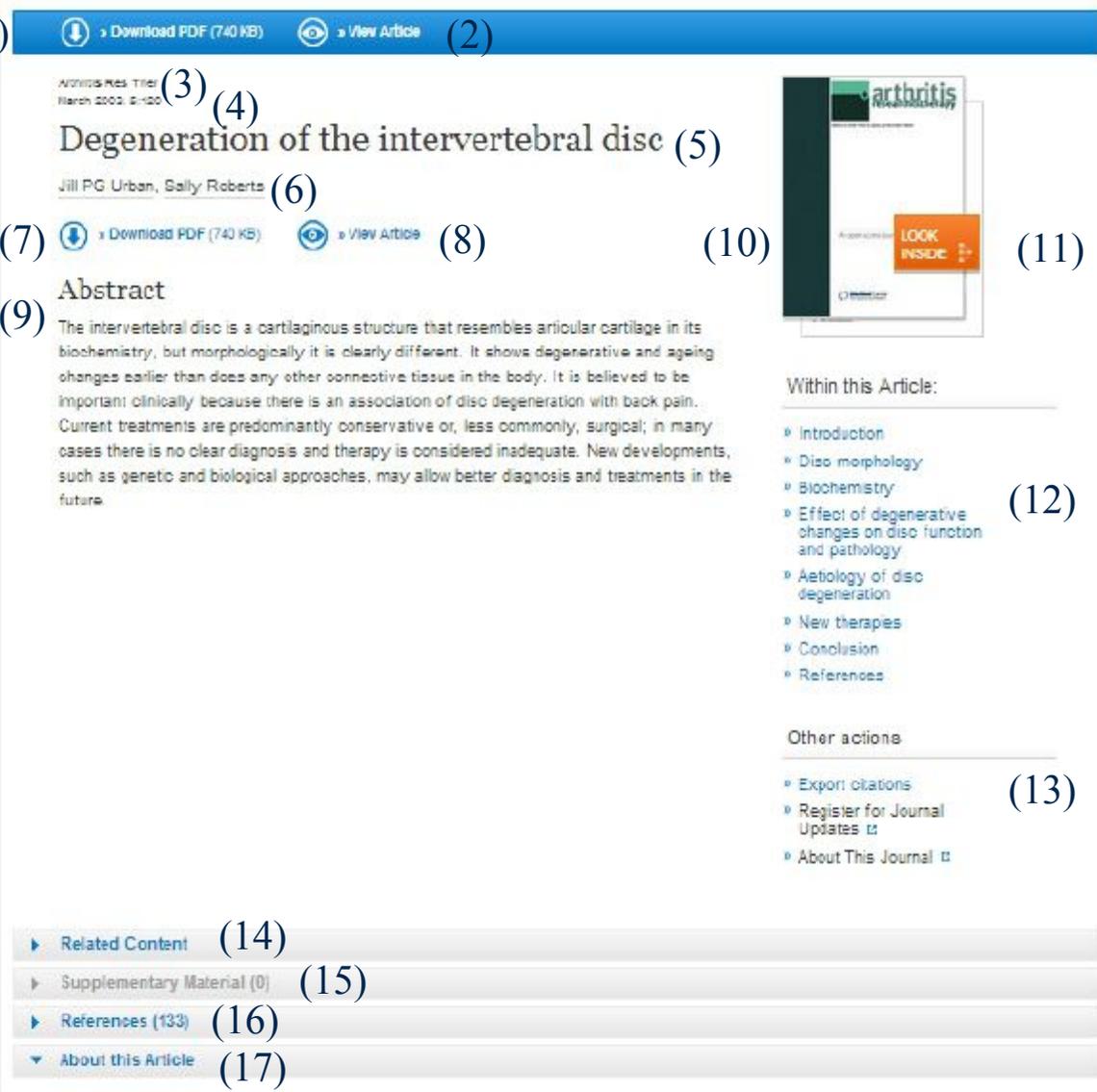
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**Degeneration of the intervertebral disc (5)**  
Jill PG Urban, Sally Roberts (6)

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(9) Abstract  
The intervertebral disc is a cartilaginous structure that resembles articular cartilage in its biochemistry, but morphologically it is clearly different. It shows degenerative and ageing changes earlier than does any other connective tissue in the body. It is believed to be important clinically because there is an association of disc degeneration with back pain. Current treatments are predominantly conservative or, less commonly, surgical; in many cases there is no clear diagnosis and therapy is considered inadequate. New developments, such as genetic and biological approaches, may allow better diagnosis and treatments in the future.

(12) Within this Article:  

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- Biochemistry
- Effect of degenerative changes on disc function and pathology
- Aetiology of disc degeneration
- New therapies
- Conclusion
- References

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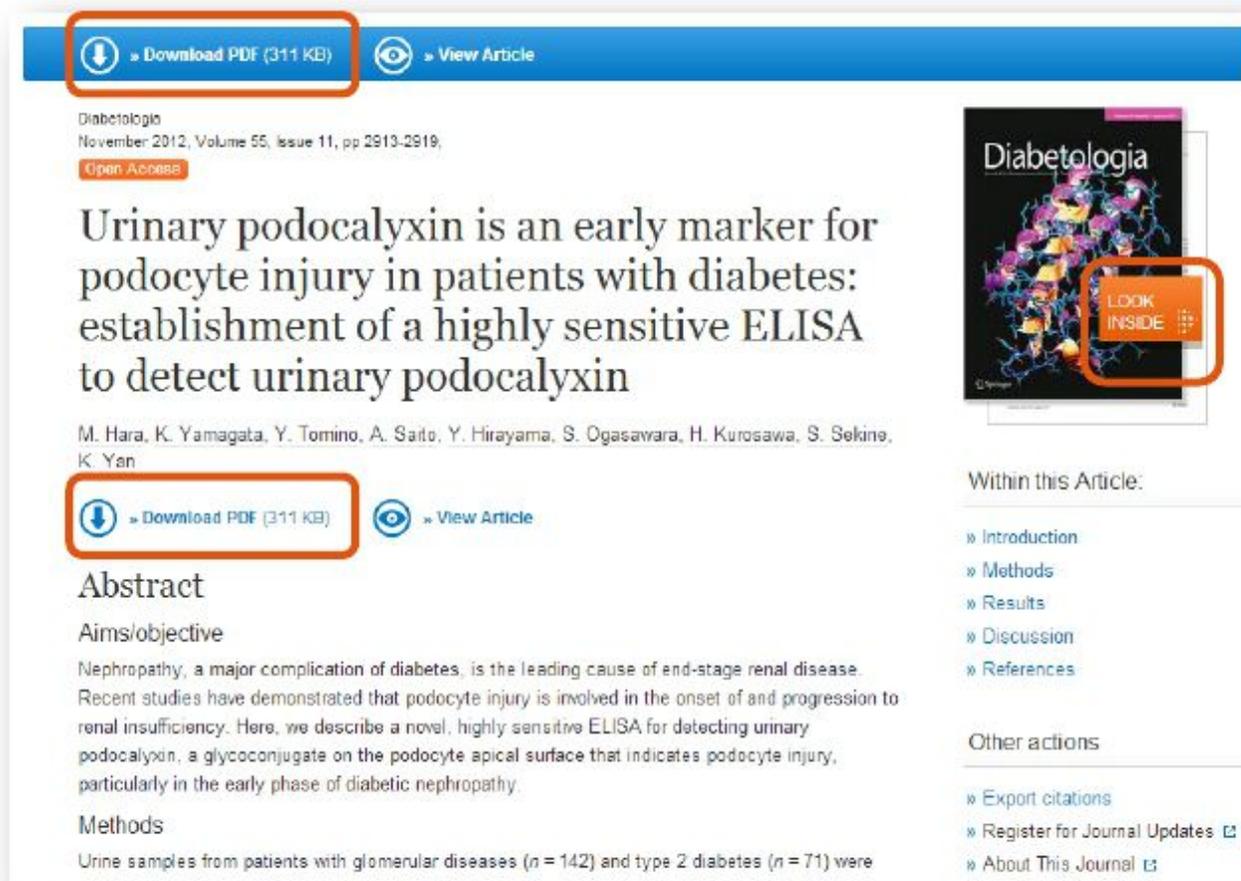
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# Urinary podocalyxin is an early marker for podocyte injury in patients with diabetes: establishment of a highly sensitive ELISA to detect urinary podocalyxin

M. Hara, K. Yamagata, Y. Tomino, A. Saito, Y. Hirayama, S. Ogasawara, H. Kurosawa, S. Sekine, K. Yan

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### Abstract

**Aims/objective**  
Nephropathy, a major complication of diabetes, is the leading cause of end-stage renal disease. Recent studies have demonstrated that podocyte injury is involved in the pathogenesis of renal insufficiency. Here, we describe a novel, highly sensitive ELISA to detect urinary podocalyxin, a glycoconjugate on the podocyte apical surface that is particularly expressed in the early phase of diabetic nephropathy.

**Methods**  
Urine samples from patients with glomerular diseases ( $n = 142$ ) were analyzed by the newly established ELISA. The sensitivity and specificity of the ELISA were evaluated.

### Article

# Urinary podocalyxin is an early marker for podocyte injury in patients with diabetes: establishment of a highly sensitive ELISA to detect urinary podocalyxin

M. Hara<sup>1</sup>✉, K. Yamagata<sup>2</sup>, Y. Tomino<sup>2</sup>, A. Saito<sup>4</sup>, Y. Hirayama<sup>5</sup>, S. Ogasawara<sup>6</sup>, H. Kurosawa<sup>7</sup>, S. Sekine<sup>8</sup> and K. Yan<sup>9</sup>

(1) Department of Pediatrics, Yoshida Hospital, Yoshida 32-14, Tsubame City 958-0242, Niigata, Japan  
(2) Department of Nephrology, University of Tsukuba, Tsukuba, Japan  
(3) Department of Nephrology, Juntendo University, Tokyo, Japan  
(4) Department of Medicine, Niigata University, Niigata, Japan  
(5) Research and Development Department, Denka Seiken, Gosen, Niigata, Japan  
(6) Department of Pediatrics, School of Medicine, Kyorin University, Mitaka, Tokyo, Japan

✉ M. Hara  
Email: mhara@yoshida-hosp.jp

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(1) **Urinary podocalyxin is an early marker for podocyte injury in patients with diabetes: establishment of a highly sensitive ELISA to detect urinary podocalyxin**

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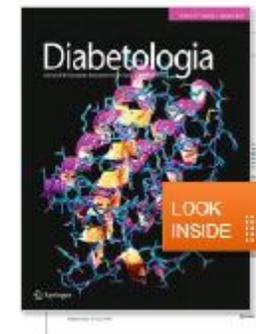
### Abstract

**Aims/objective**

Nephropathy, a major complication of diabetes, is the leading cause of end-stage renal disease. Recent studies have demonstrated that podocyte injury is involved in the onset of and progression to renal insufficiency. Here, we describe a novel, highly sensitive ELISA for detecting urinary podocalyxin, a glycoconjugate on the podocyte apical surface that indicates podocyte injury, particularly in the early phase of diabetic nephropathy.

**Methods**

Urine samples from patients with glomerular diseases ( $n = 142$ ) and type 2 diabetes ( $n = 71$ ) were



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- » Methods
- » Results
- » Discussion
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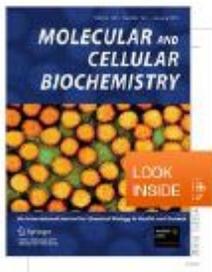
### Chronic hyperhomocysteinemia induces oxidative damage in the rat lung

Aline A. da Cunha, Andréa G. K. Ferreira, Maira J. da Cunha, Carolina D. Pederzoli, Débora L. Becker, Juliana G. Coelho, Carlos S. Dutra-Filho, Angela T. S. Wyse

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**Abstract**

Tissue accumulation of homocysteine occurs in classical homocystinuria, a metabolic disease characterized biochemically by cystathionine  $\beta$ -synthase deficiency. Vascular manifestations such as myocardial infarction, cerebral thrombosis, hepatic steatosis, and pulmonary embolism are common in this disease and poorly understood. In this study, we investigated the effect of chronic hyperhomocysteinemia on some parameters of oxidative stress (thiobarbituric acid-reactive substances, protein carbonyl content, 2',7-dichlorofluorescein fluorescence assay, and total radical-trapping antioxidant potent) and activities of antioxidant enzymes (superoxide dismutase, catalase, and glutathione peroxidase) in the rat lung. Reduced glutathione content and glucose 6-phosphate dehydrogenase activity, as well as nitrite levels, were also evaluated. Wistar rats received daily subcutaneous injections of Hcy (0.3–0.6  $\mu$ mol/g body weight) from the 6th to the 28th days-of-age and the control group received saline. One and 12 h after the last injection, rats were killed and the lungs collected. Hyperhomocysteinemia increased lipid peroxidation and oxidative damage to protein, and disrupted antioxidant defenses (enzymatic and non-enzymatic) in the lung of rats, characterizing a reliable oxidative stress. In contrast, this amino acid did not alter nitrite levels. Our findings showed a consistent profile of oxidative stress in the lung of rats, elicited by homocysteine, which could explain, at least in part, the mechanisms involved in the lung damage that is present in some homocystinuric patients.



MOLECULAR AND CELLULAR BIOCHEMISTRY  
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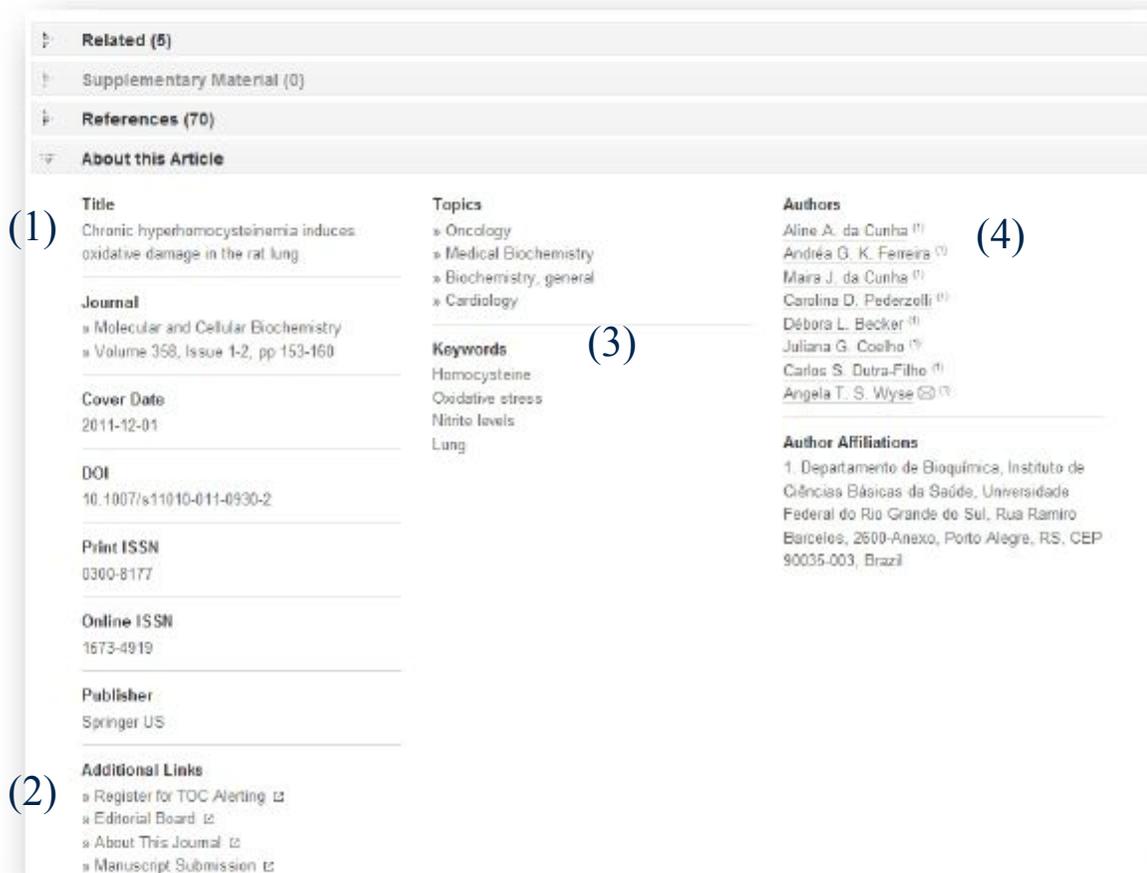
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