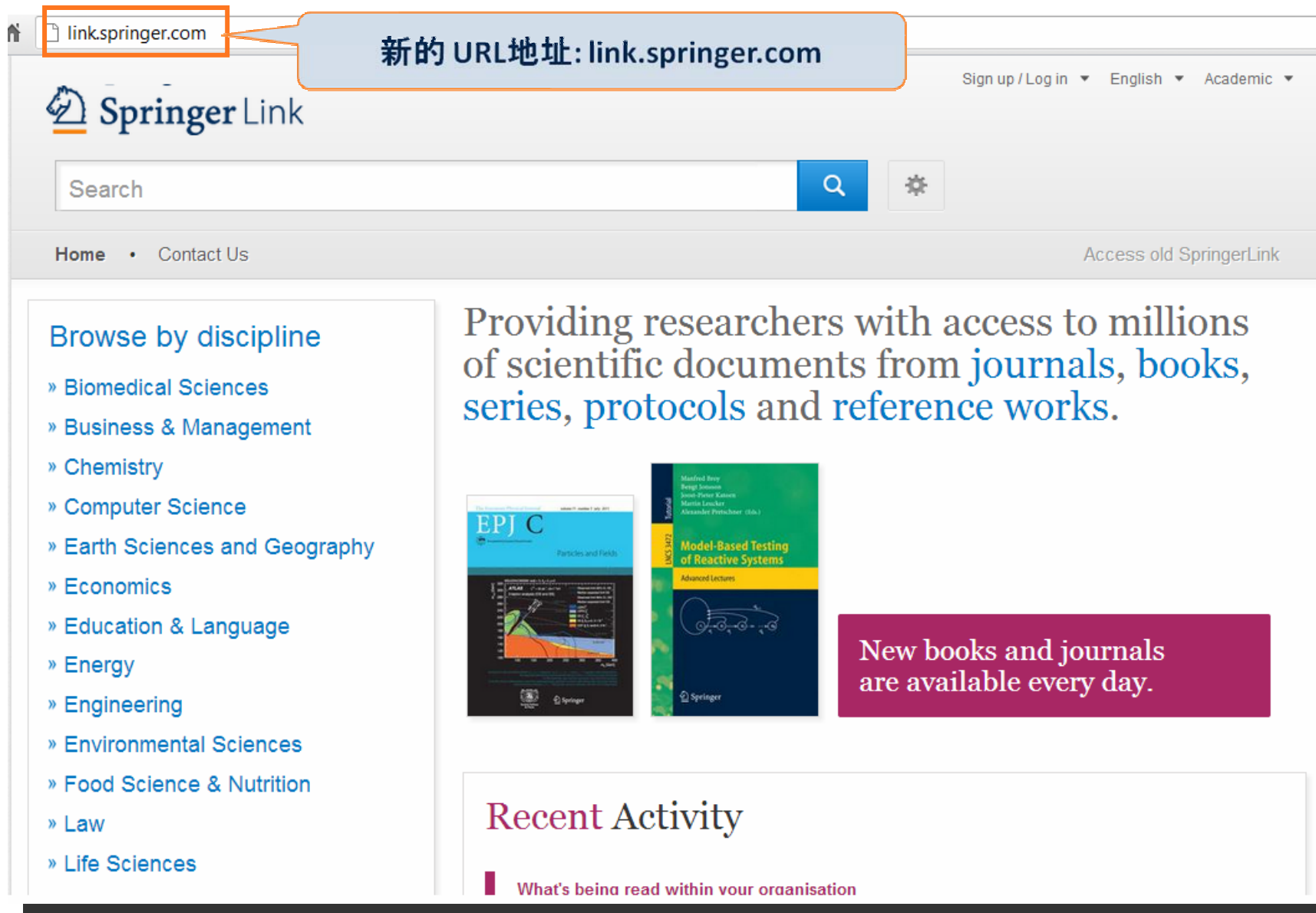




SpringerLink新平台使用指南

2012年11月



The screenshot shows the SpringerLink website. A callout box points to the address bar, which contains 'link.springer.com', with the text '新的 URL地址: link.springer.com' (New URL address: link.springer.com). The website header includes the SpringerLink logo, a search bar, and navigation links for 'Sign up / Log in', 'English', and 'Academic'. Below the header, there are links for 'Home' and 'Contact Us', and a link to 'Access old SpringerLink'. The main content area features a 'Browse by discipline' section with a list of fields: Biomedical Sciences, Business & Management, Chemistry, Computer Science, Earth Sciences and Geography, Economics, Education & Language, Energy, Engineering, Environmental Sciences, Food Science & Nutrition, Law, and Life Sciences. To the right, a large text block states: 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.' Below this, two book covers are displayed: 'EPJ C' (Particles and Fields) and 'Model-Based Testing of Reactive Systems' (Advanced Lectures). A purple box next to the books says 'New books and journals are available every day.' At the bottom, a section titled 'Recent Activity' includes a sub-header 'What's being read within your organisation'.

link.springer.com

新的 URL地址: link.springer.com

Sign up / Log in English Academic

Springer Link

Search

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

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

EPJ C
Particles and Fields


Model-Based Testing of Reactive Systems
Advanced Lectures

New books and journals are available every day.

Recent Activity

What's being read within your organisation

新平台速度更快

 SpringerLink				
Avg. Page Load Time (sec)	Pageviews	Page Load Sample	Bounce Rate	% Exit
10.04	51,261,199	275,878	61.38%	41.54%
Site Avg: 10.04 (0.00%)	% of Total: 100.00% (51,261,199)	% of Total: 100.00% (275,878)	Site Avg: 61.38% (0.00%)	Site Avg: 41.54% (0.00%)

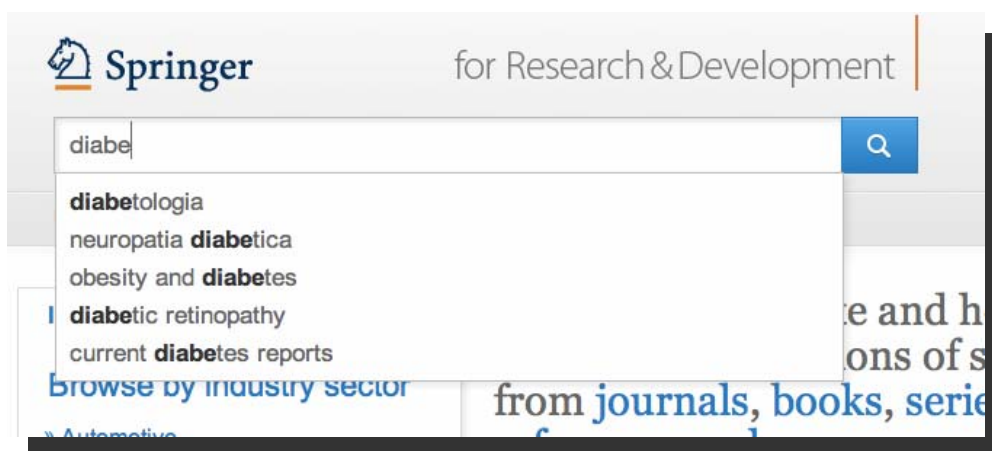
页面平均下载时间

 Springer Link					Brian Bishop ▼ English ▼ Academic ▼		
Avg. Page Load Time (sec)	Pageviews	Page Load Sample	Bounce Rate	% Exit			
5.15	309,919	1,653	58.90%	50.83%			
Site Avg: 5.15 (0.00%)	% of Total: 100.00% (309,919)	% of Total: 100.00% (1,653)	Site Avg: 58.90% (0.00%)	Site Avg: 50.83% (0.00%)			

页面平均下载时间

新平台添加了更多新功能：

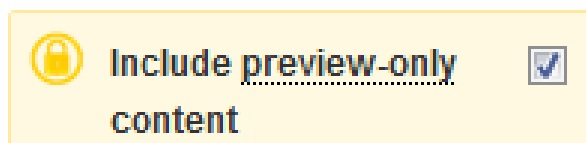
搜索时自动建议功能（以Google关键字数据为准）



仅显示有访问权的查询结果



每个文件可以预览
两页（不
仅限于浏览图书
章节）



756 Result(s) for 'biorefinery'

更多新功能:

直接链接到HTML部分

Within this Article:

- » [Introduction](#)
- » [Patients and methods](#)
- » [Results](#)
- » [Discussion](#)
- » [References](#)

Results

Patient characteristics

Between 11/04/2003 and 12/13/2004, seven patients were seen in this initial cohort. Table 1 summarizes

Table 1 Baseline demographics and clinical characteristics


Baseline characteristics
Patients evaluable/enrolled
Gender: Female %

改进后的 HTML

European Biophysics Journal with Biophysics Letters
© The Author(s) 2012
10.1007/s00249-012-0820-x

Review

Validation of macro

Michal Hammel¹ 

(1) Lawrence Berkeley National Laboratory,

 Michal Hammel
Email: mhammel@lbl.gov

Received: 4 March 2012 Revised: 22 April 2012

Abstract

The dynamics of macromolecular conformations are critical to the action of cellular scattering studies, in combination with macromolecular X-ray crystallography (MX) resonance (NMR), strive to determine complete and accurate states of macromolecules describing allosteric mechanisms, supramolecular complexes, and dynamic insights. This review addresses theoretical and practical concepts, concerns, and considerations in conjunction with computational methods to productively combine solution high-resolution structures. I discuss the principal means of direct identification of conformations from SAXS data followed by critical concerns about the methods used to calculate from high-resolution structures. The SAXS profile is a direct interrogation of the conformation and techniques such as, for example, minimal ensemble search (MES), enhance computational techniques used for conformational sampling, recent developments in computational techniques used for conformational sampling, provide a basis for assessing the level of the flexibility within a sample. approaches sacrifice atomic detail, the knowledge gained from ensemble analysis developing hypotheses and guiding biochemical experiments. Examples of the use

Keywords Small-angle X-ray scattering (SAXS)

Special Issue: Scattering techniques in biophysics

[Home](#) • [Contact Us](#)

European Biophysics Journal
with Biophysics Letters
© The Author(s) 2012
10.1007/s00249-012-0820-x

Review

Validation of macromolecular flexibility in solution by small-angle X-ray scattering (SAXS)

Michal Hammel¹ 

(1) Lawrence Berkeley National Laboratory, Physical Biosciences Division, Berkeley, CA, USA

 Michal Hammel
Email: mhammel@lbl.gov

Received: 4 March 2012
Revised: 22 April 2012
Accepted: 5 May 2012
Published online: 26 May 2012

Abstract

The dynamics of macromolecular conformations are critical to the action of cellular scattering studies, in combination with macromolecular X-ray crystallography (MX) resonance (NMR), strive to determine complete and accurate states of macromolecules describing allosteric mechanisms, supramolecular complexes, and dynamic insights. This review addresses theoretical and practical concepts, concerns, and considerations in conjunction with computational methods to productively combine solution high-resolution structures. I discuss the principal means of direct identification of conformations from SAXS data followed by critical concerns about the methods used to calculate from high-resolution structures. The SAXS profile is a direct interrogation of the conformation and techniques such as, for example, minimal ensemble search (MES), enhance computational techniques used for conformational sampling, recent developments in computational techniques used for conformational sampling, provide a basis for assessing the level of the flexibility within a sample. approaches sacrifice atomic detail, the knowledge gained from ensemble analysis developing hypotheses and guiding biochemical experiments. Examples of the use

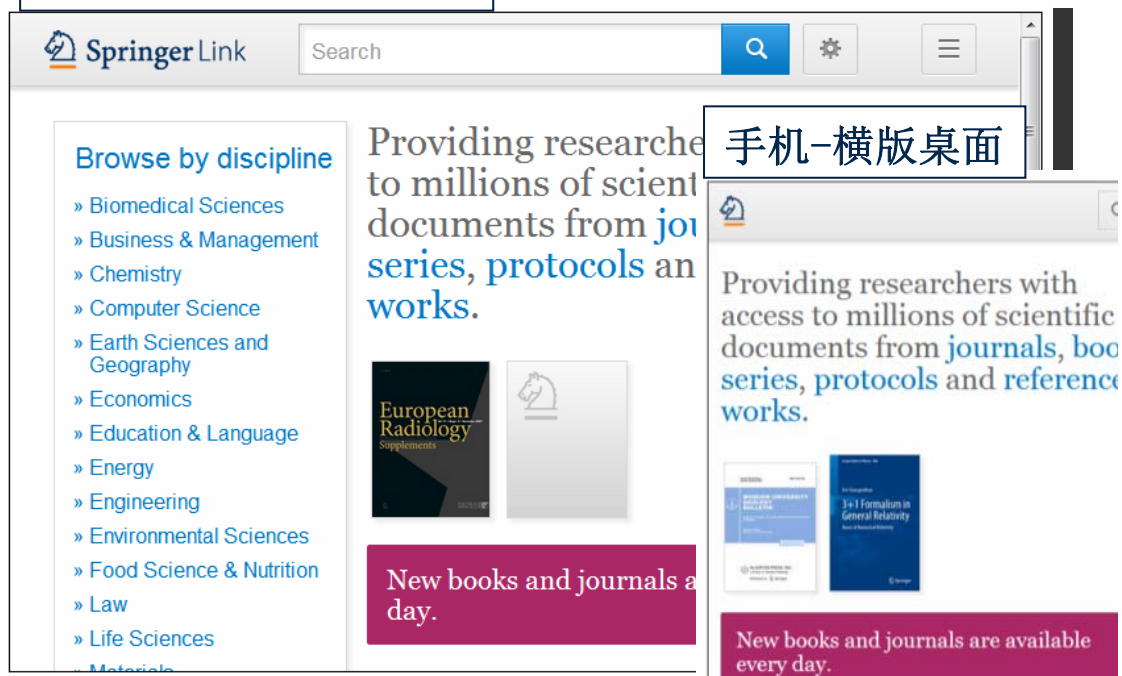
新平台适应各种移动终端、智能手机

- 网络响应设计让所有移动设备具有最佳视觉效果

普通电脑桌面



平板电脑（终端）桌面



手机-横版桌面



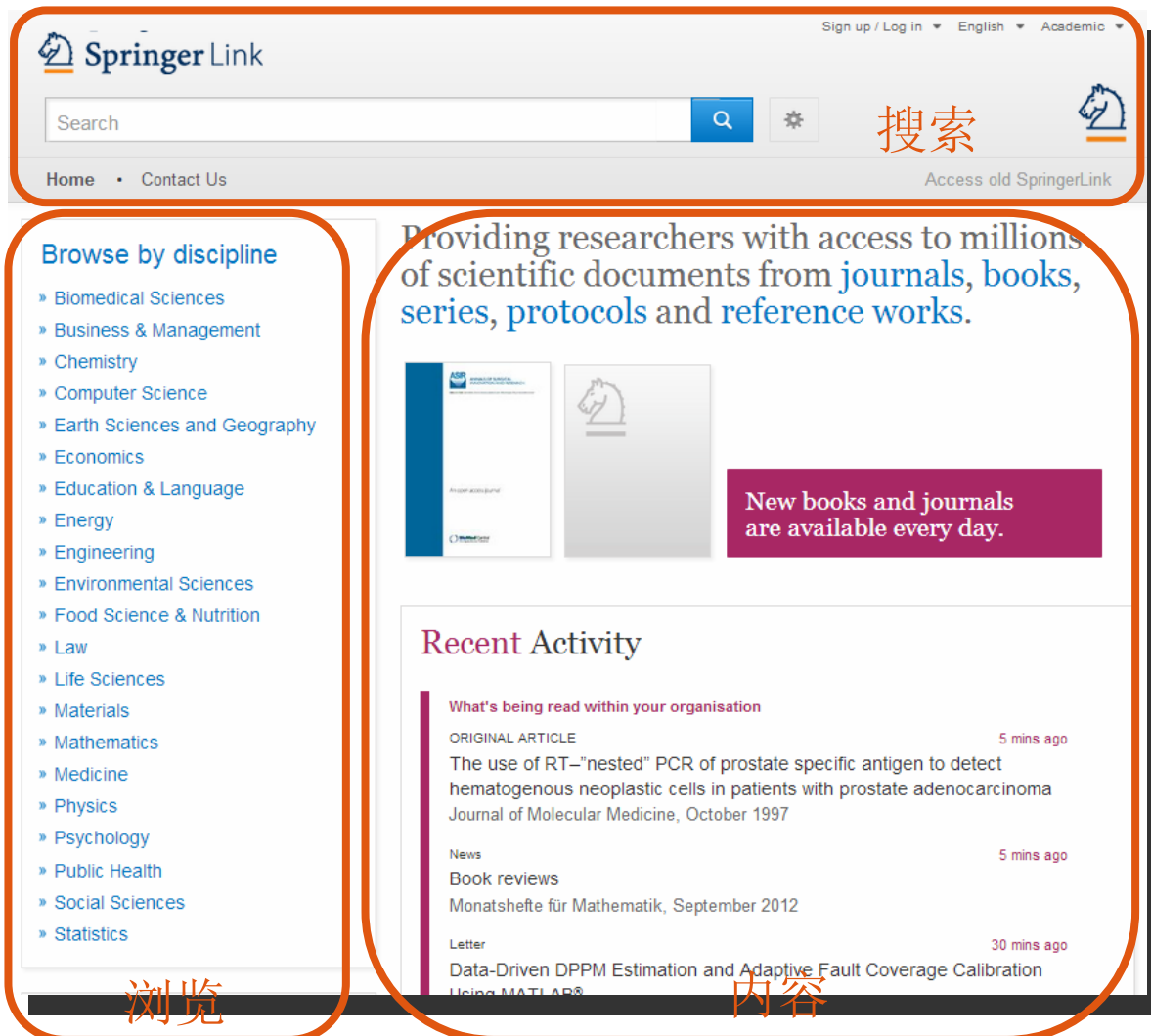
手机-竖版桌面



主页

- 3个部分:搜索 – 浏览 – 内容
- 以不同的颜色来识别用户或匿名用户
- 具有可识别功能
- 匿名用户
- 公司用户
- 公司标识
- 搜索功能
- 按行业浏览
- 按内容浏览

主页



The screenshot shows the SpringerLink homepage. At the top, there is a navigation bar with the SpringerLink logo, a search bar, and links for 'Sign up / Log in', 'English', and 'Academic'. Below the navigation bar, the main content area is divided into three sections. The left section, titled 'Browse by discipline', lists various academic fields such as 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, and Statistics. The middle section, titled 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.', features a banner for 'New books and journals are available every day.' and a 'Recent Activity' section. The 'Recent Activity' section lists recent publications, including 'The use of RT-“nested” PCR of prostate specific antigen to detect hematogenous neoplastic cells in patients with prostate adenocarcinoma' (Journal of Molecular Medicine, October 1997), 'Monatshefte für Mathematik, September 2012', and 'Data-Driven DPPM Estimation and Adaptive Fault Coverage Calibration Using MATLAB®'.

Springer Link

Sign up / Log in English Academic

Search

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

ORIGINAL ARTICLE 5 mins ago

The use of RT-“nested” PCR of prostate specific antigen to detect hematogenous neoplastic cells in patients with prostate adenocarcinoma

Journal of Molecular Medicine, October 1997

News 5 mins ago

Book reviews

Monatshefte für Mathematik, September 2012

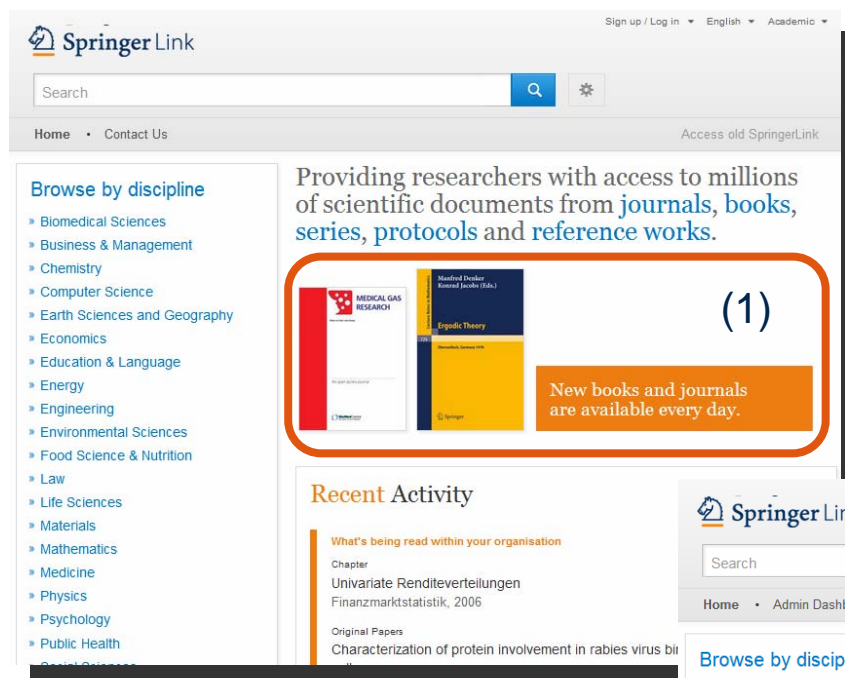
Letter 30 mins ago

Data-Driven DPPM Estimation and Adaptive Fault Coverage Calibration Using MATLAB®

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

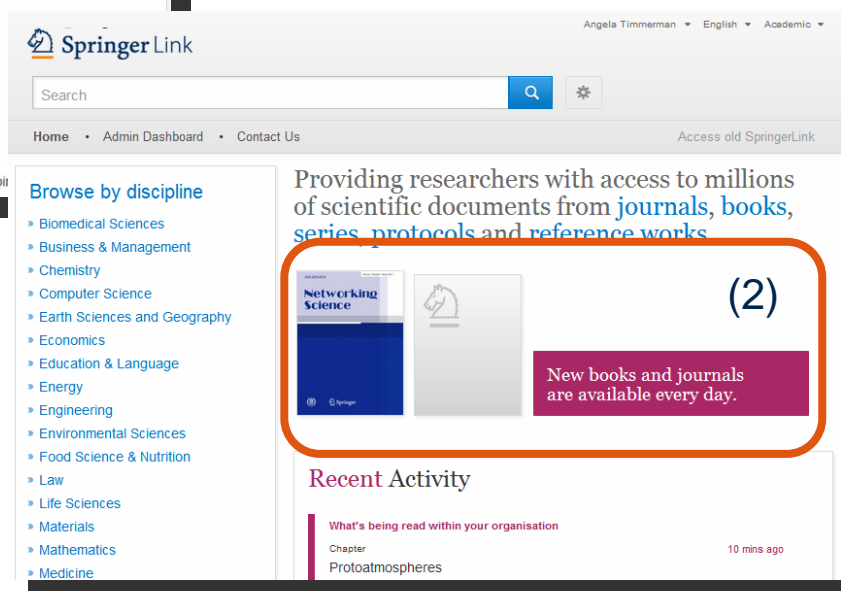
主页



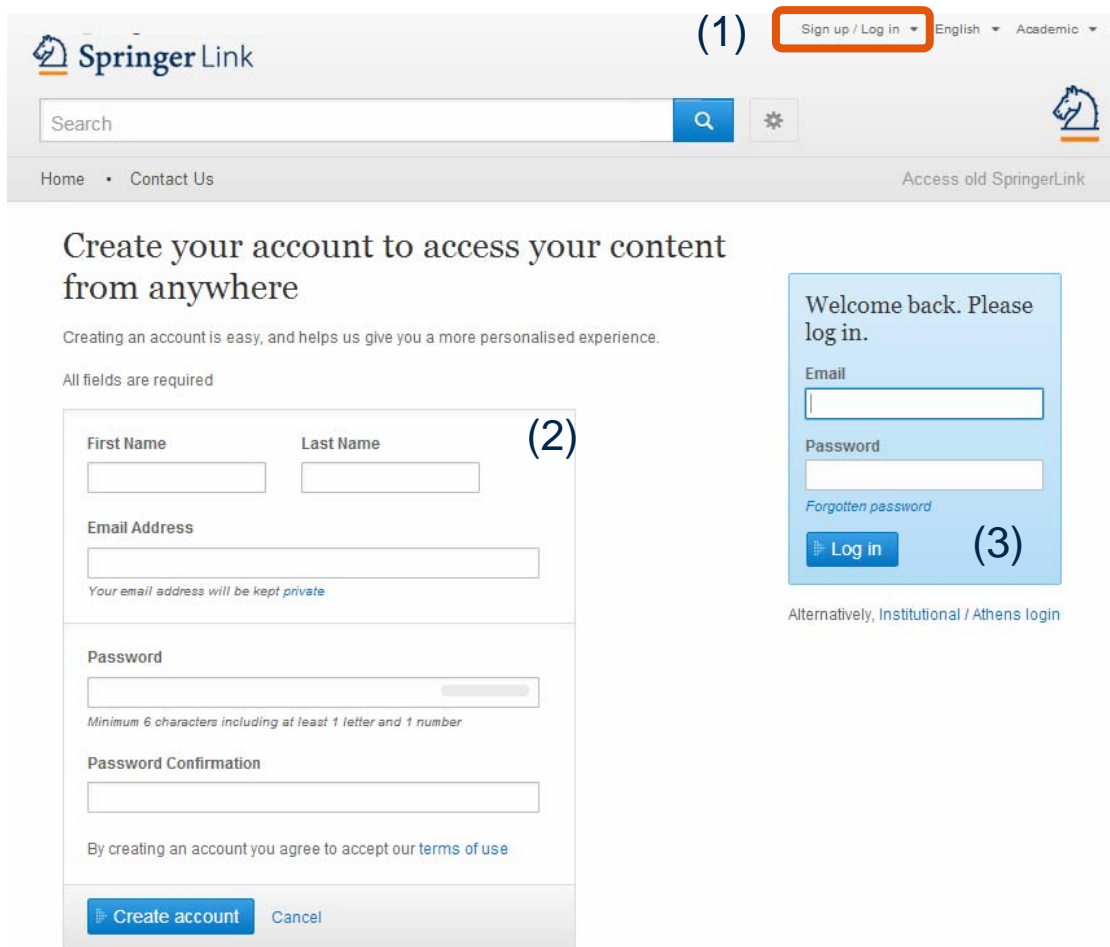
内容区域

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：可识别用户 VS 匿名用户



The image shows the SpringerLink homepage. At the top, there is a navigation bar with the SpringerLink logo, a search bar, and links for 'Sign up / Log in', 'English', and 'Academic'. Below the navigation bar, there is a main content area. On the left, there is a section titled 'Create your account to access your content from anywhere' with a form for creating a new account. The form includes fields for 'First Name', 'Last Name', 'Email Address', 'Password', and 'Password Confirmation'. On the right, there is a section titled 'Welcome back. Please log in.' with a form for logging in. The login form includes fields for 'Email' and 'Password', and a 'Log in' button. There is also a link for 'Forgotten password' and a link for 'Alternatively, Institutional / Athens login'.

(1) Sign up / Log in

Search

Home • Contact Us

Create your account to access your content from anywhere

Creating an account is easy, and helps us give you a more personalised experience.

All fields are required

First Name Last Name

Email Address

Your email address will be kept private

Password

Minimum 6 characters including at least 1 letter and 1 number

Password Confirmation

By creating an account you agree to accept our [terms of use](#)

Create account Cancel

Welcome back. Please log in.

Email

Password

Forgotten password

Log in

Alternatively, Institutional / Athens login

(2)

(3)

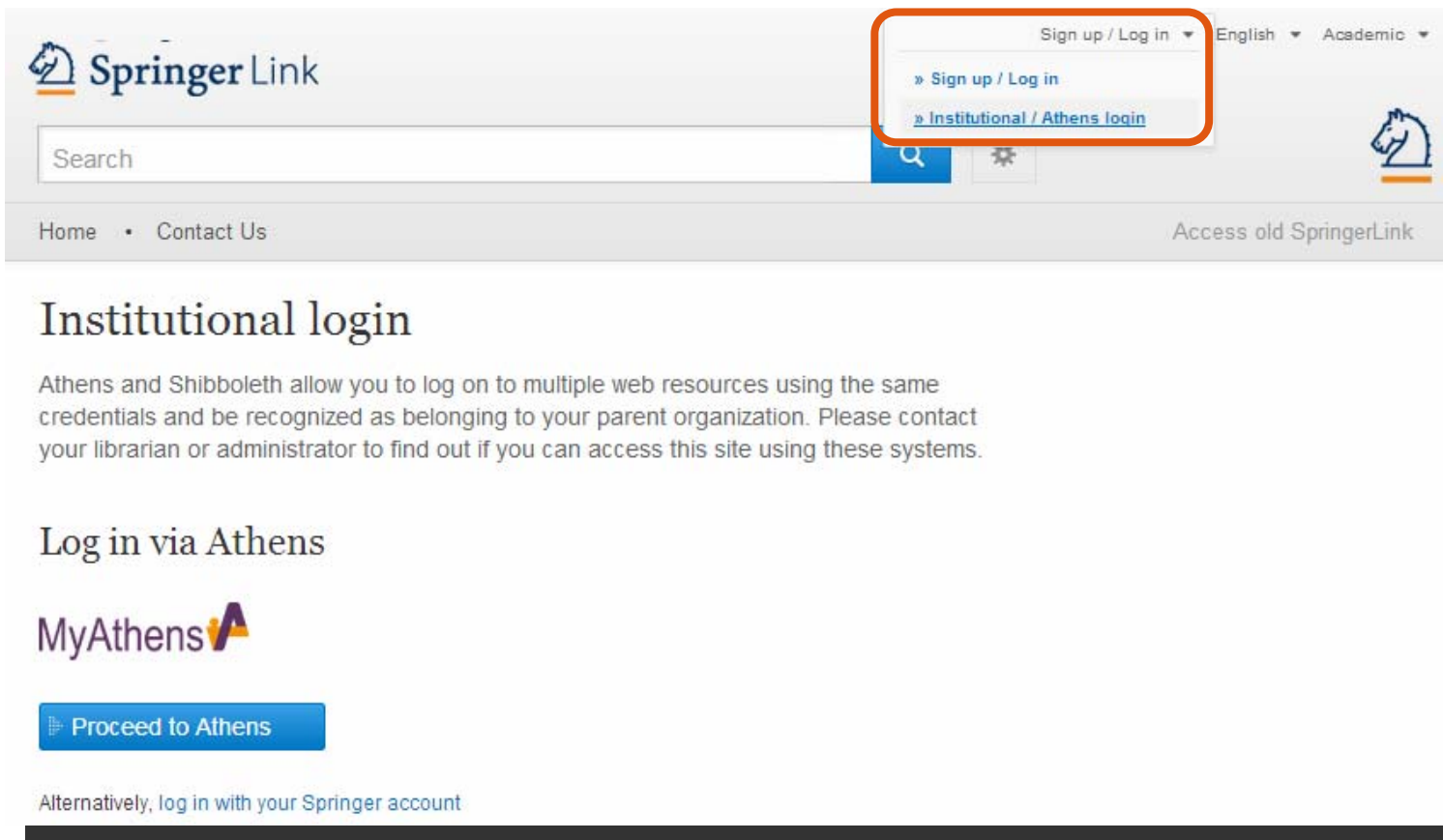
识别功能

当某用户在可识别的IP范围内登入<http://link.springer.com>时，该用户将自动识别为该机构的一部分

同时，用户登入时所用的邮箱和密码也可以进行识别：

1. 点击注册/登录（Sign Up/Login）
2. 注册并建立账户（Sign up to create an account）
3. 或者在任何地点登入到您的收藏页面

机构/ Athens 登录



The screenshot shows the SpringerLink website interface. At the top, there is a navigation bar with the SpringerLink logo, a search bar, and a dropdown menu for "Sign up / Log in". The dropdown menu is highlighted with an orange box and contains two options: "» Sign up / Log in" and "» Institutional / Athens login". Below the navigation bar, there is a section titled "Institutional login" with a paragraph explaining that Athens and Shibboleth allow users to log on to multiple web resources using the same credentials. Below this, there is a section titled "Log in via Athens" with the MyAthens logo and a blue button labeled "Proceed to Athens". At the bottom, there is a link that says "Alternatively, log in with your Springer account".

Springer Link

Search

Sign up / Log in English Academic

» Sign up / Log in

» Institutional / Athens login

Home • Contact Us Access old SpringerLink

Institutional login

Athens and Shibboleth allow you to log on to multiple web resources using the same credentials and be recognized as belonging to your parent organization. Please contact your librarian or administrator to find out if you can access this site using these systems.

Log in via Athens

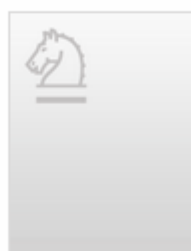
MyAthens

Proceed to Athens

Alternatively, log in with your Springer account

主页- 匿名用户

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

OriginalPaper

1 min ago

Development of a Mesoamerican intra-genepool genetic map for quantitative trait loci detection in a drought tolerant × susceptible common bean (*Phaseolus vulgaris* L.) cross
Molecular Breeding, January 2012

BookMatter

1 min ago

Developing International Strategies, 2012

OriginalPaper

1 min ago

The Relation of Story Structure Properties to Recall of Television Stories in Young Children with Attention-Deficit Hyperactivity Disorder and Nonreferred Peers
Journal of Abnormal Child Psychology, August 1999

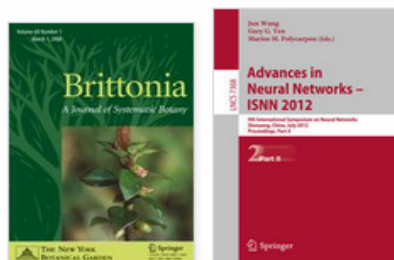
匿名用户:

如果您匿名登录，“活动”（Activity）将显示为橙色

在该区域中，您将获得所有最近期的下载列表

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

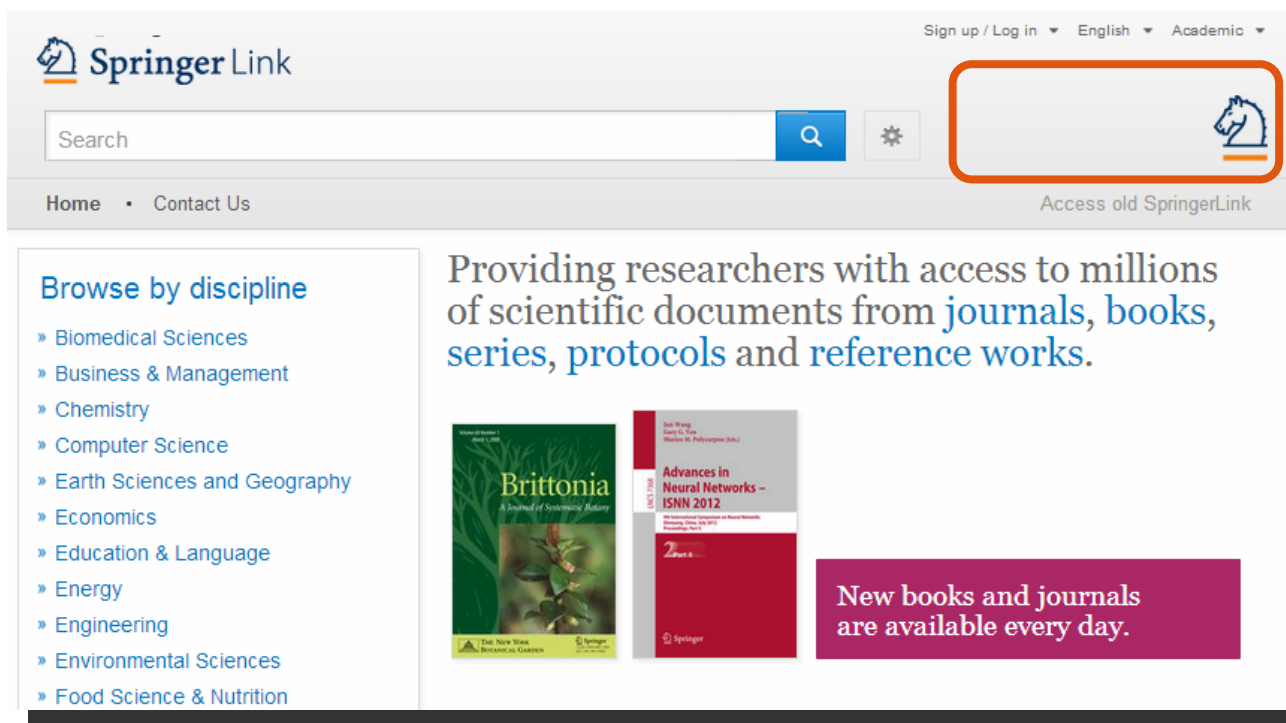
Amelioration of 2,4,6-trinitrobenzene sulfonic acid-induced colitis in mice by immunoregulatory dendritic cells
Journal of Gastroenterology, December 2011

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

机构标识




机构标识

对于公司用户，您可以将该公司的标识加入到Springer网站页眉

SpringerLink数据库管理员可以进行此操作

搜索



The screenshot shows the SpringerLink homepage. At the top, there is a navigation bar with the SpringerLink logo, a search bar, and links for 'Sign up / Log in', 'English', and 'Academic'. The search bar is highlighted with an orange box and labeled (1). To the right of the search bar is a settings icon (gear) and a user icon, both highlighted with orange boxes and labeled (2). Below the navigation bar, there is a 'Browse by discipline' section on the left with a list of subjects. In the center, there is a large text block stating 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.' Below this text are two book covers: 'Brittonia' and 'Advances in Neural Networks - ISSN 2012'. To the right of the book covers is a purple box with the text 'New books and journals are available every day.' The bottom of the page has a dark grey bar with 'Home' and 'Contact Us' links on the left, and 'Access old SpringerLink' on the right.

Sign up / Log in English Academic

Springer Link

Search (1)

(2)

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

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

Brittonia
A Journal of Systematic Botany
The New York Botanical Garden

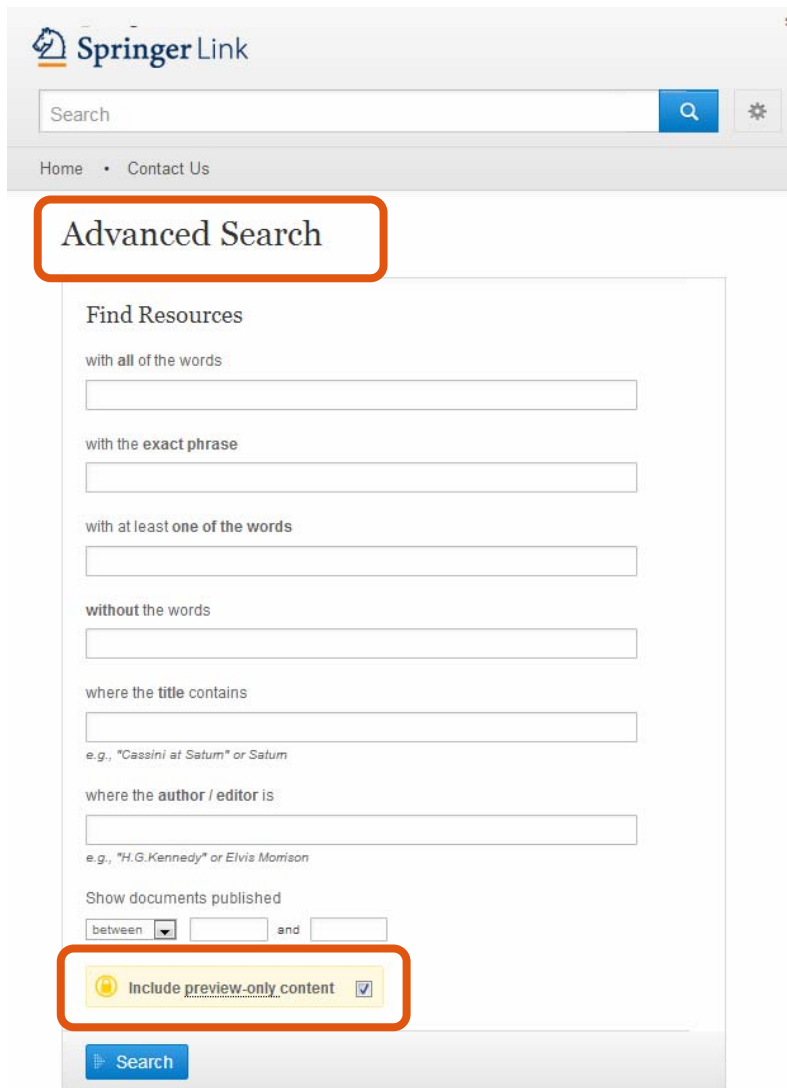
Advances in Neural Networks - ISSN 2012
The International Conference on Neural Networks
Honolulu, Hawaii, USA 2012
November 2-7, 2012
Springer

New books and journals are available every day.

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



The screenshot shows the SpringerLink Advanced Search page. At the top, there is a search bar with the text "Search" and a magnifying glass icon. Below the search bar, there are links for "Home" and "Contact Us". The main section is titled "Advanced Search" and contains several search criteria:

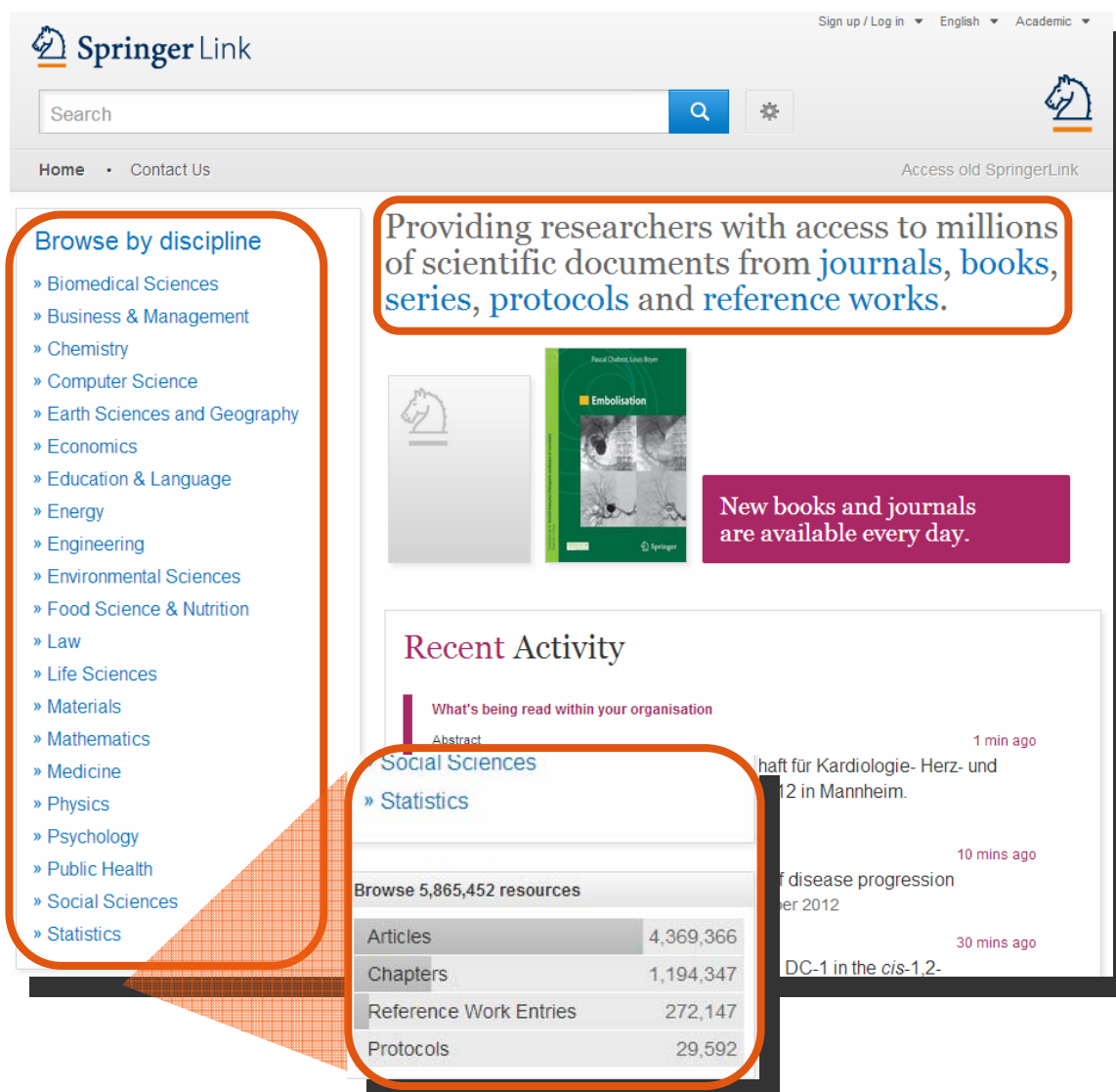
- Find Resources**
- with all of the words**: A text input field.
- with the exact phrase**: A text input field.
- with at least one of the words**: A text input field.
- without the words**: A text input field.
- where the title contains**: A text input field with an example: "e.g., 'Cassini at Saturn' or Saturn".
- where the author / editor is**: A text input field with an example: "e.g., 'H.G. Kennedy' or Elvis Morrison".
- Show documents published**: A section with "between" and "and" dropdowns and input fields.
- Include preview-only content**: A checkbox that is checked, highlighted with a red box.

At the bottom, there is a blue "Search" button.

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. A search bar is at the top. On the left, a 'Browse by discipline' sidebar lists various fields. A central banner promotes access to millions of documents. Below this, a 'Recent Activity' section shows what's being read within an organization. A table at the bottom lists resource types and their counts. Annotations (orange boxes) highlight the 'Browse by discipline' sidebar, the central banner, and the 'Recent Activity' section.

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

Abstract

Social Sciences

» Statistics

Browse 5,865,452 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

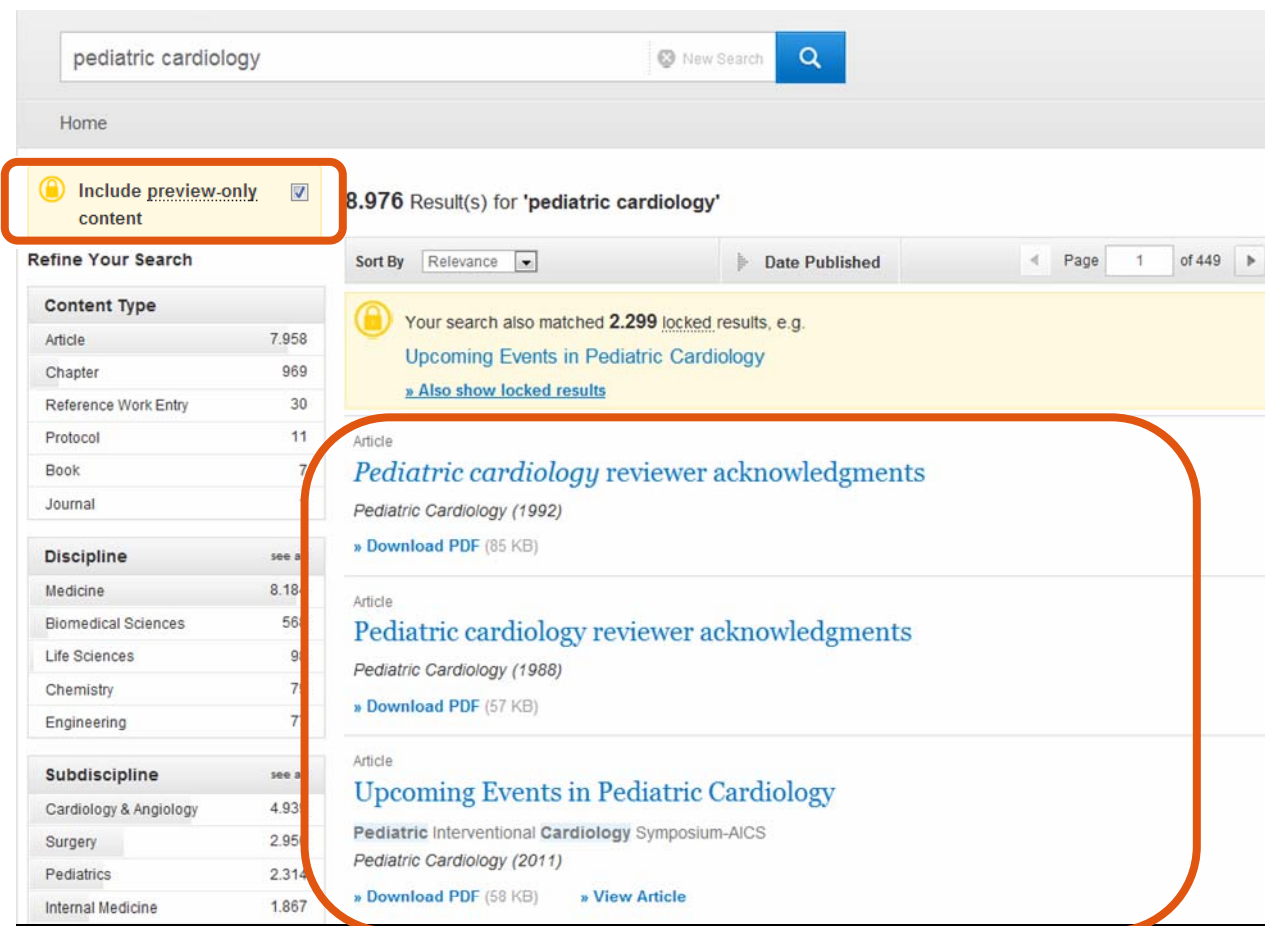
如果您点击某个学科，您将会进入到该学科的新页面

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 Springer search results page for the query "pediatric cardiology". The search bar at the top contains the query and a "New Search" button. Below the search bar, the results are displayed in a list format. On the left side, there is a "Refine Your Search" section with filters for "Content Type", "Discipline", and "Subdiscipline". A yellow box highlights the "Include preview-only content" checkbox, which is checked. The search results list shows three items, each with a title, a subtitle, and a "Download PDF" link. The first item is "Pediatric cardiology reviewer acknowledgments" from "Pediatric Cardiology (1992)". The second item is "Pediatric cardiology reviewer acknowledgments" from "Pediatric Cardiology (1988)". The third item is "Upcoming Events in Pediatric Cardiology" from "Pediatric Interventional Cardiology Symposium-AICS Pediatric Cardiology (2011)". A large orange box highlights the first three search results.

pediatric cardiology

Home

Include preview-only content

8,976 Result(s) for 'pediatric cardiology'

Sort By Relevance Date Published

Page 1 of 449

Your search also matched 2,299 locked results, e.g. Upcoming Events in Pediatric Cardiology

» Also show locked results

Article

Pediatric cardiology reviewer acknowledgments

Pediatric Cardiology (1992)

» Download PDF (85 KB)

Article

Pediatric cardiology reviewer acknowledgments

Pediatric Cardiology (1988)

» Download PDF (57 KB)

Article

Upcoming Events in Pediatric Cardiology

Pediatric Interventional Cardiology Symposium-AICS Pediatric Cardiology (2011)

» Download PDF (58 KB) » View Article

Content Type	
Article	7,958
Chapter	969
Reference Work Entry	30
Protocol	11
Book	7
Journal	

Discipline	
Medicine	8,18
Biomedical Sciences	56
Life Sciences	9
Chemistry	7
Engineering	7

Subdiscipline	
Cardiology & Angiology	4,93
Surgery	2,95
Pediatrics	2,314
Internal Medicine	1,867

搜索结果:


您可以在页面右下角找到搜索结果列表

在预设情况下, 将只显示权限范围内的搜索结果

如果您想看权限以外的搜索结果, 您可以勾选黄色区域内的过滤选项, 被锁住的内容也会被列出来

搜索结果页面

(2)

 Include preview-only content ☒

Refine Your Search

Content Type

Article	9,880
Chapter	1,338
Reference Work Entry	32
Protocol	16
Book	8
Journal	1

Discipline [see all](#)


Medicine	8,301
Biomedical Sciences	581
Life Sciences	101
Chemistry	79
Engineering	77

Subdiscipline [see all](#)

Cardiology & Angiology	4,939
Surgery	2,991
Pediatrics	2,329
Internal Medicine	1,905


11,275 Result(s) for 'pediatric cardiology'

Sort By Relevance Date Published Page 1 of 564

 Article No Access

[Upcoming Events in Pediatric Cardiology](#) (1)
Pediatric Cardiology (2002)
[» Free Preview](#) [» Get Access](#)

Article
[Pediatric cardiology reviewer acknowledgments](#)
Pediatric Cardiology (1992)
[» Download PDF](#) (85 KB)

 Article No Access

[Upcoming Events in Pediatric Cardiology](#)
Pediatric Cardiology (2003)
[» Free Preview](#) [» Get Access](#)

Article
[Pediatric cardiology reviewer acknowledgments](#)
Pediatric Cardiology (1988)
[» Download PDF](#) (57 KB)

搜索结果（仅限预览）：

1. 预览结果将以黄色背景显示
2. 如果您只想看到权限范围内的搜索结果，取消黄色框上的勾选

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
(4) Michael D. Casler in *BioEnergy Research* (2010) (5)
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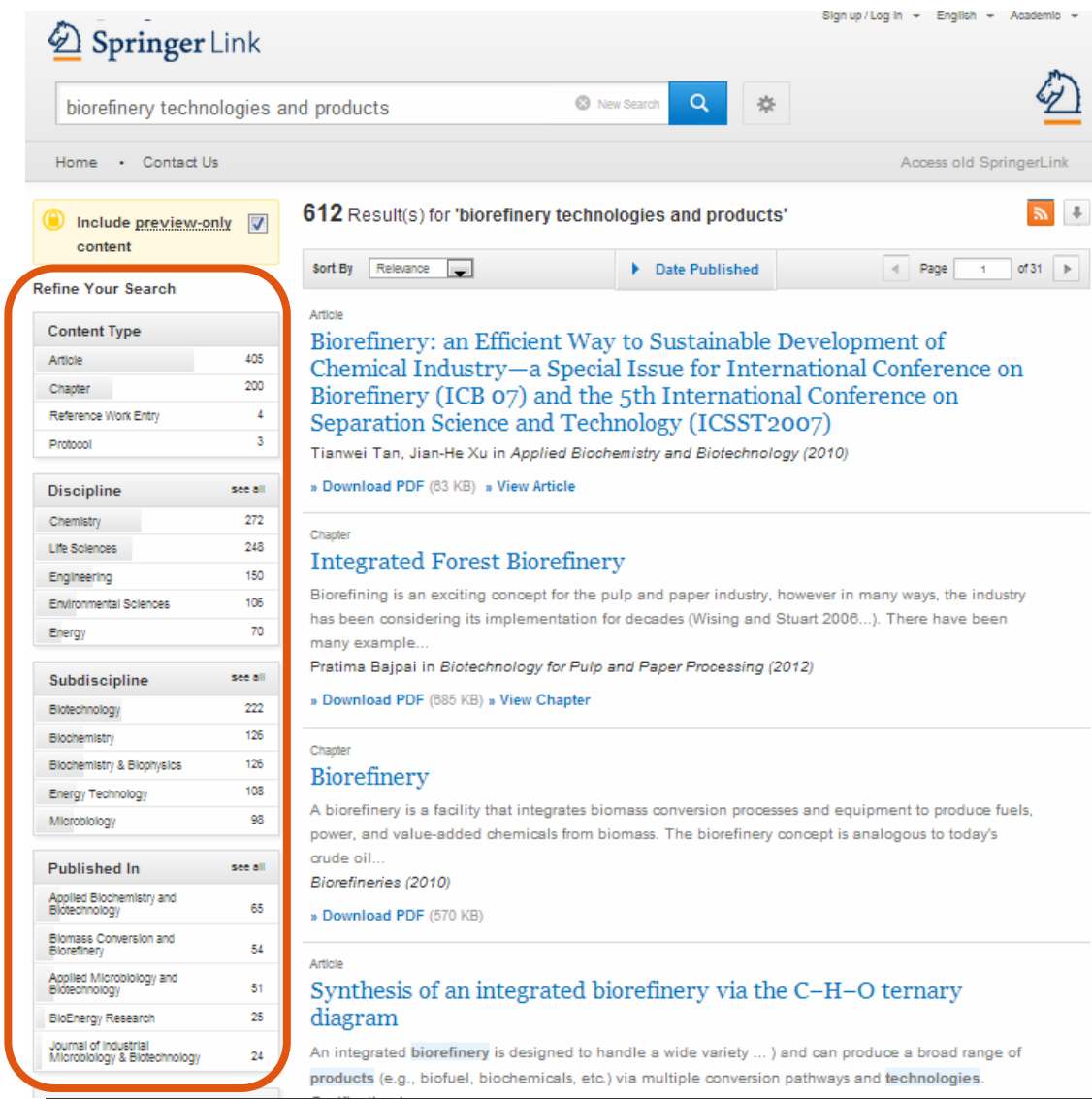
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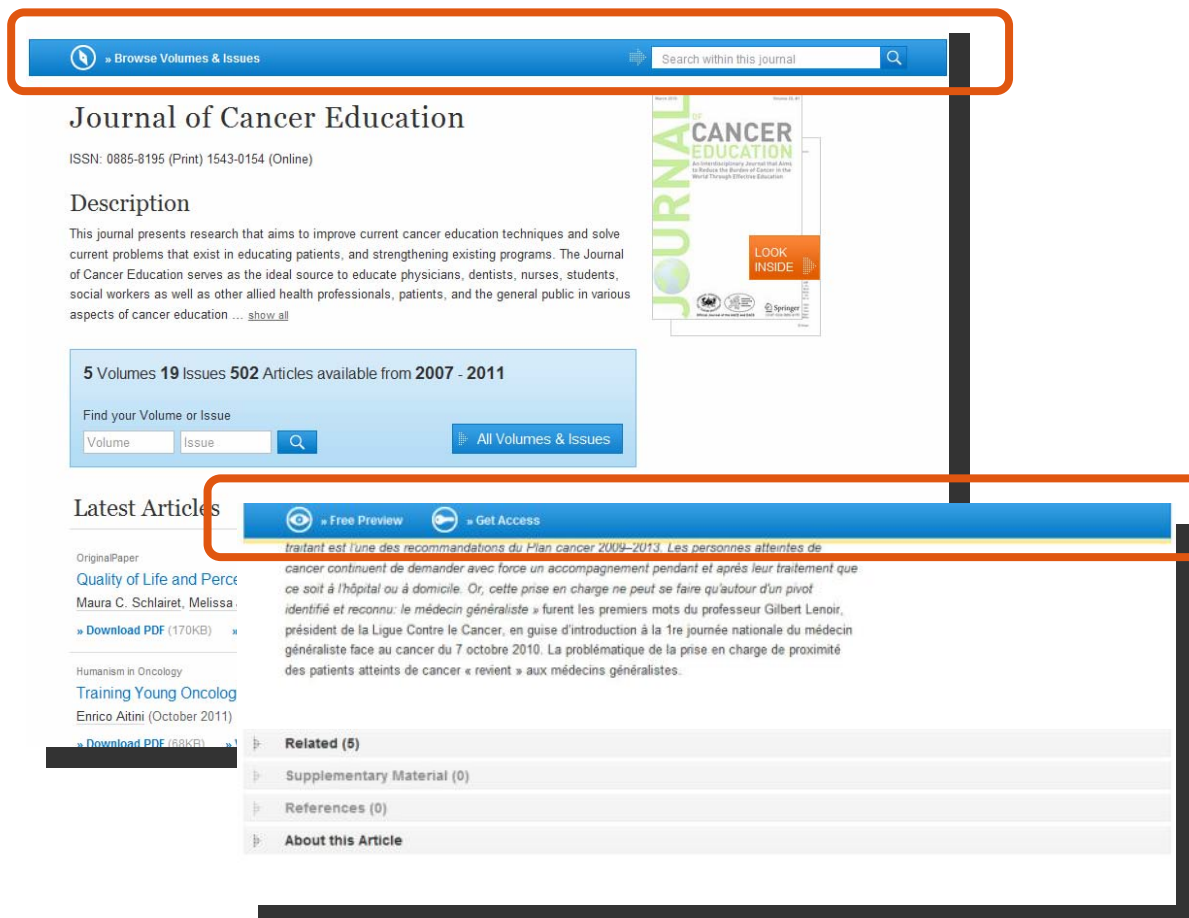
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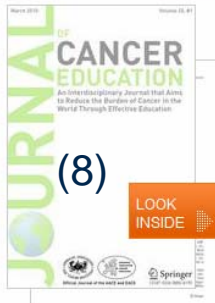
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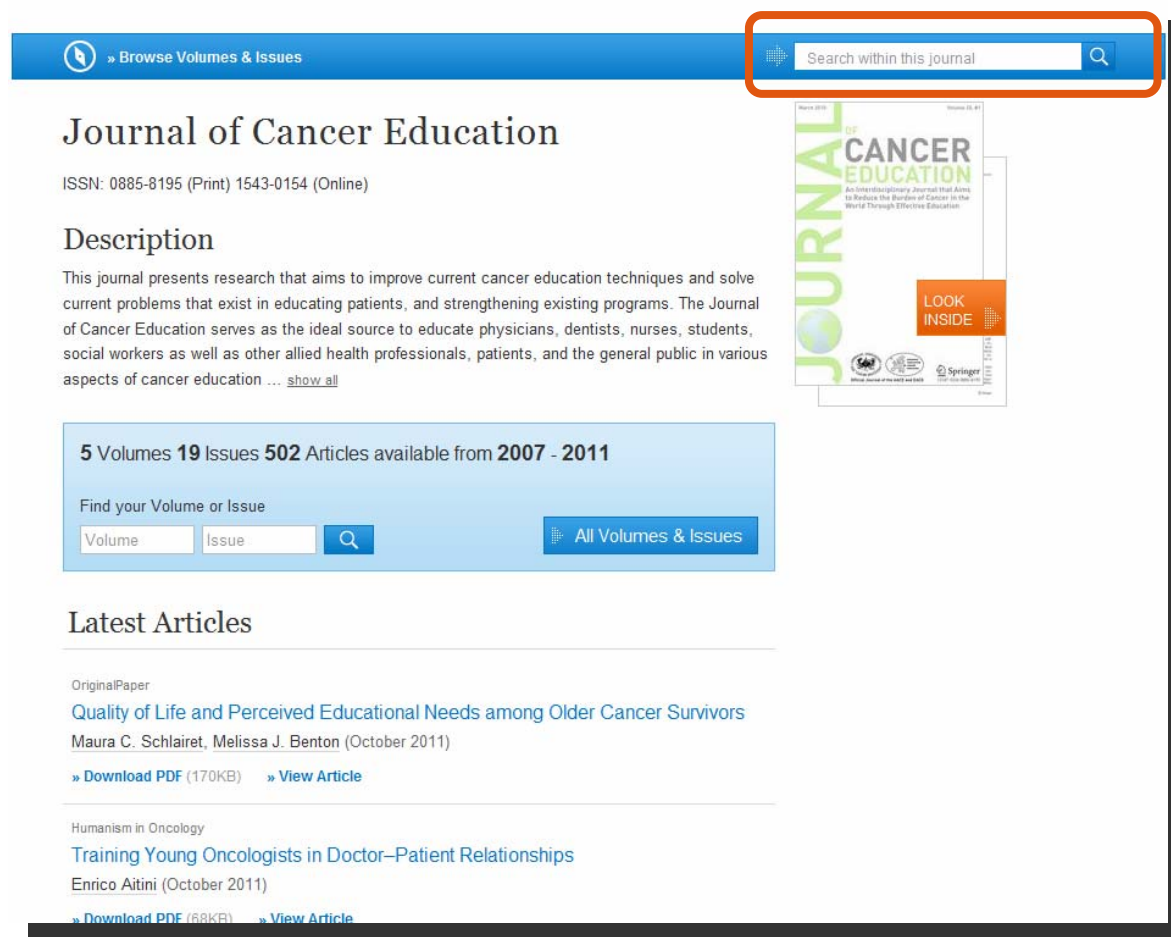
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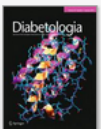

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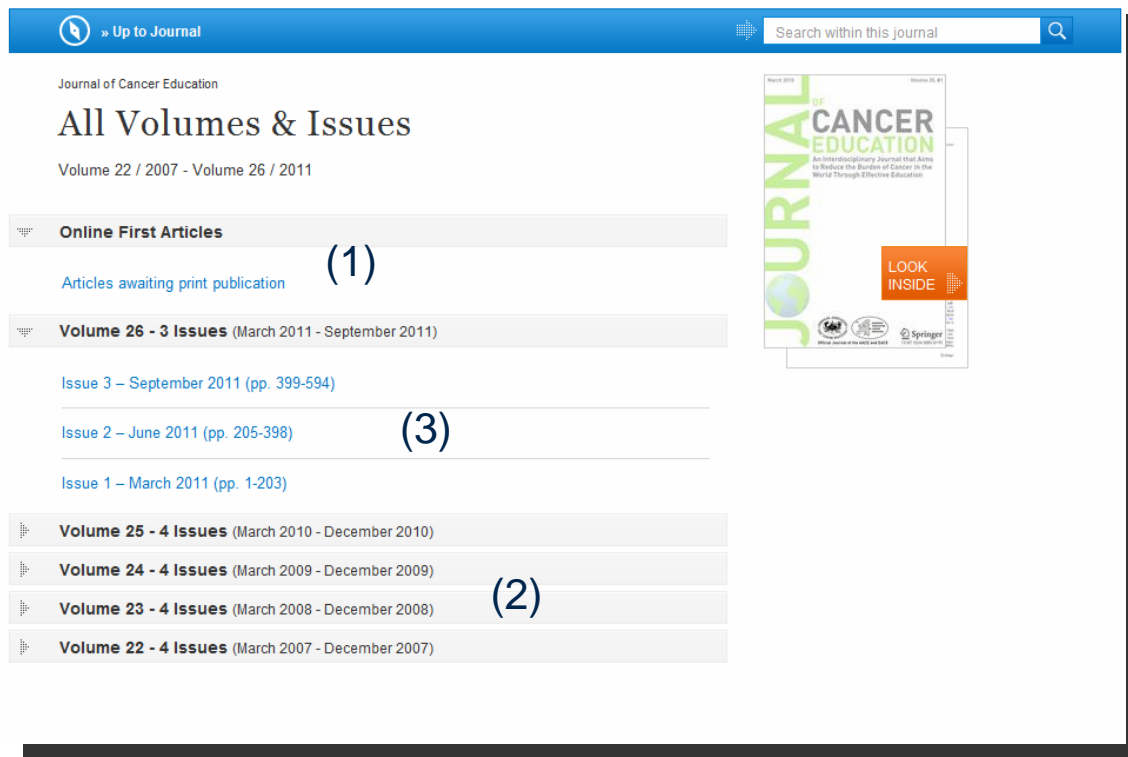
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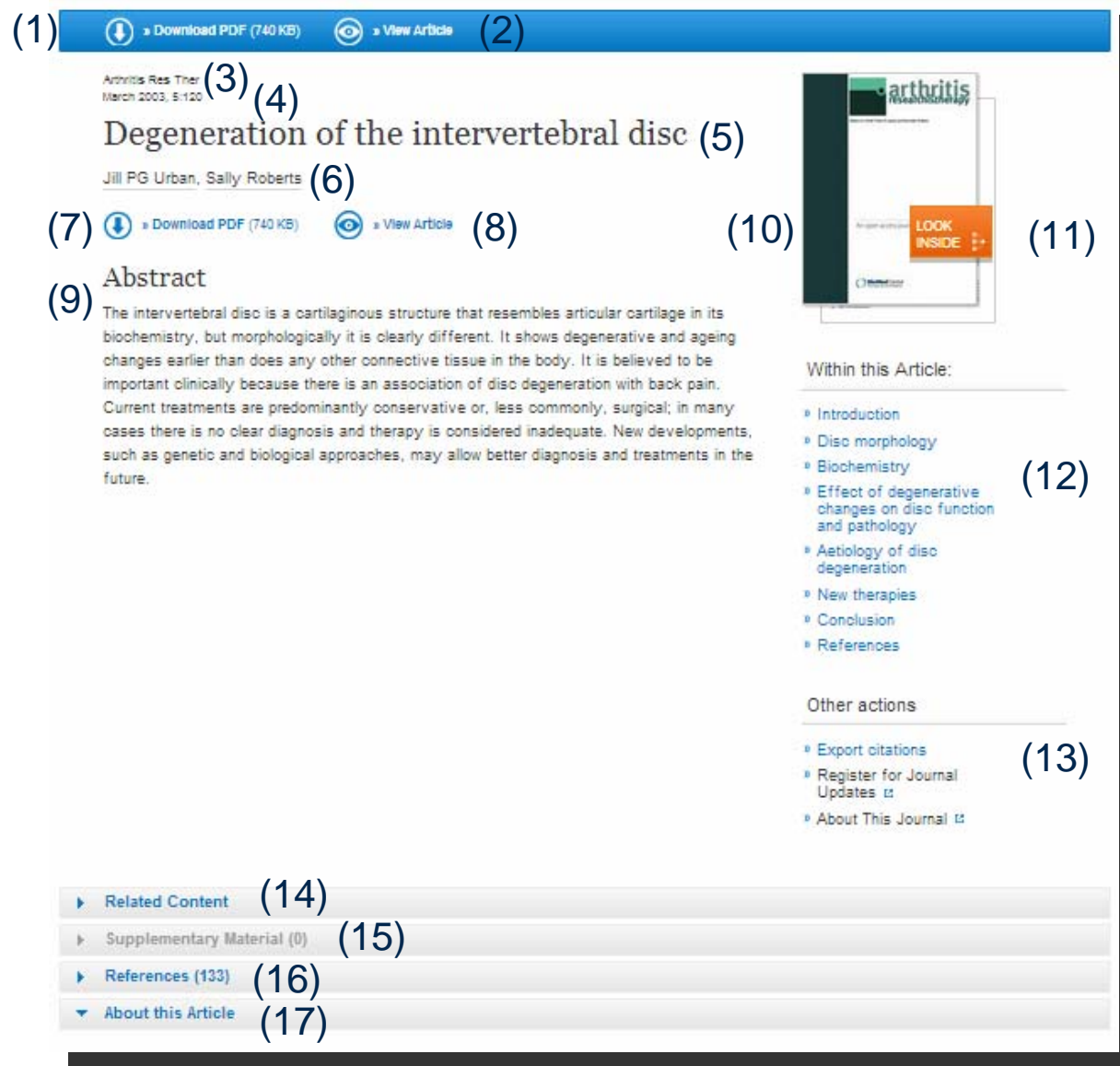
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Nephropathy, a major complication of diabetes, is the leading cause of end-stage renal disease. Recent studies have demonstrated that podocyte injury is involved in the onset of and progression to renal insufficiency. Here, we describe a novel, highly 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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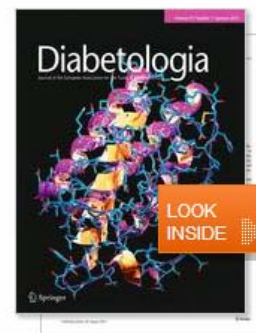
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Methods

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10.1007/s00125-012-2661-7

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M. Hara¹✉, K. Yamagata², Y. Tomino³, A. Saito⁴, Y. Hirayama⁵, S. Ogasawara⁵, H. Kurosawa⁵, S. Sekine⁵ and K. Yan⁶

- (1) Department of Pediatrics, Yoshida Hospital, Yoshida 32-14, Tsubame City 959-0242, Niigata, Japan
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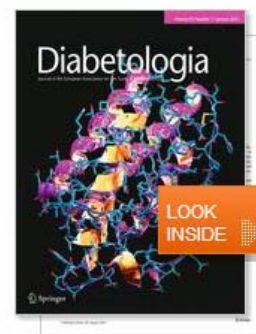
Abstract

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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Molecular and Cellular Biochemistry
December 2011, Volume 358, Issue 1-2, pp 153-160

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 β -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 $\mu\text{mol/g}$ 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.



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Jill PG Urban, Sally Roberts

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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,

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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.

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
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
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
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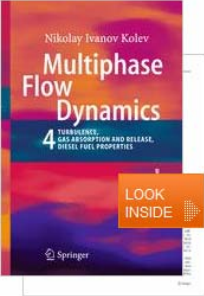
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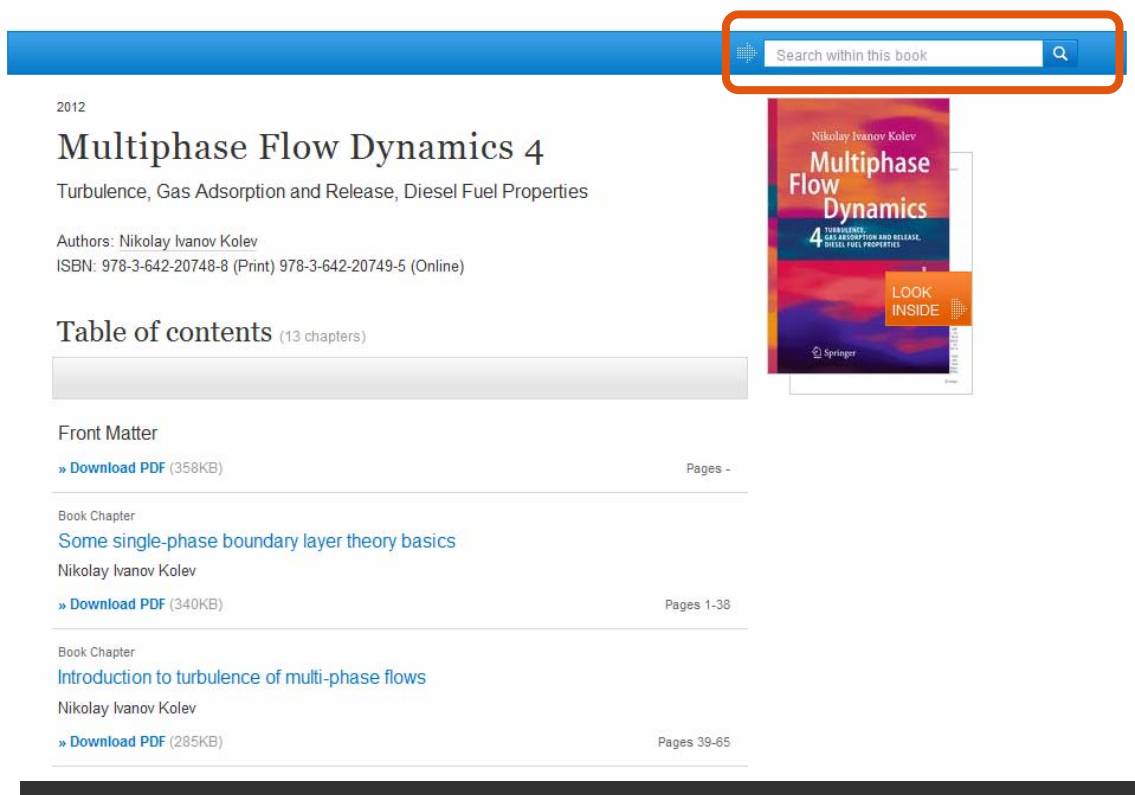
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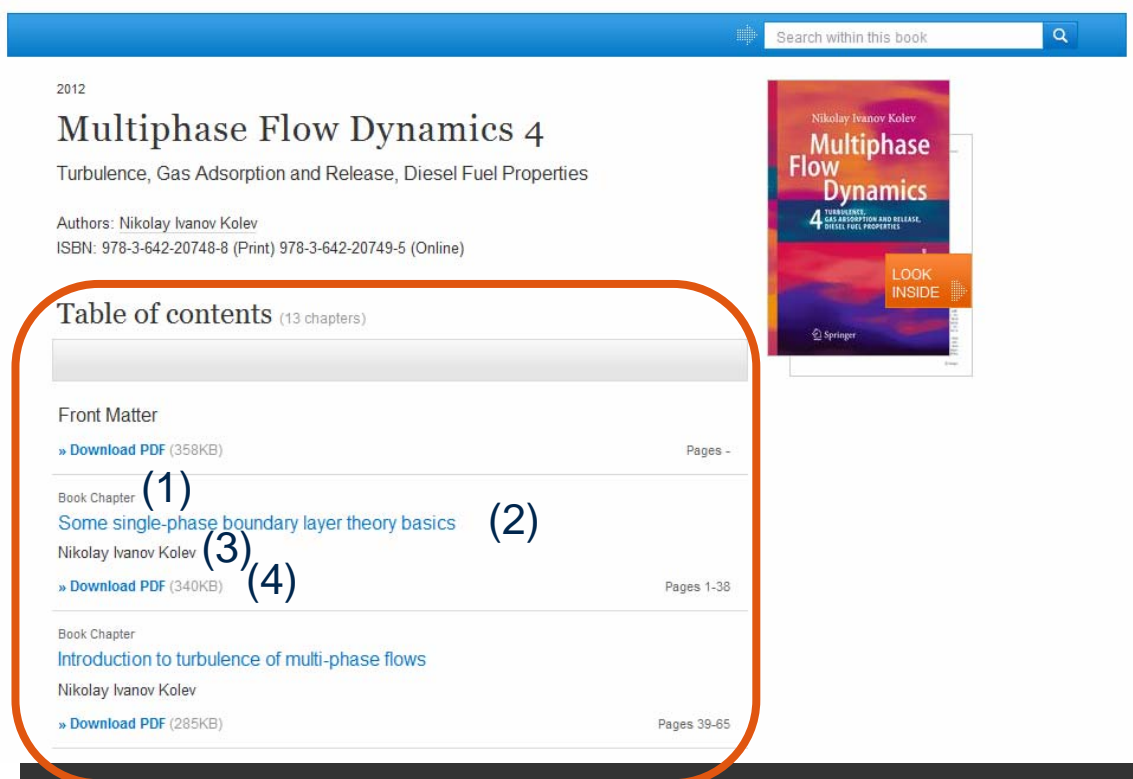
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Vector Optimization Volume 1, 2012, pp 1-27

Vector Optimization Problems and Their Solution Concepts

Gabriele Eichfelder, Johannes Jahn

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Abstract

In vector optimization one investigates optimal elements of a set in a pre-ordered space. The problem of determining these optimal elements, if they exist at all, is called a vector optimization problem. Problems of this type can be found not only in mathematics but also in engineering and economics. There, these problems are also called multiobjective (or multi criteria or Pareto) optimization problems or one speaks of multi criteria decision making. Vector optimization problems arise, for example, in functional analysis (the Hahn–Banach theorem, the lemma of Bishop–Phelps, Ekeland’s variational principle), multiobjective programming, multi-criteria decision making, statistics (Bayes solutions, theory of tests, minimal covariance matrices), approximation theory (location theory, simultaneous approximation, solution of boundary value problems) and cooperative game theory (cooperative n player differential games and, as a special case, optimal control problems). In the last decades vector optimization has been extended to problems with set-valued maps. This field, called set optimization, has important applications to variational inequalities and optimization problems with multivalued data.

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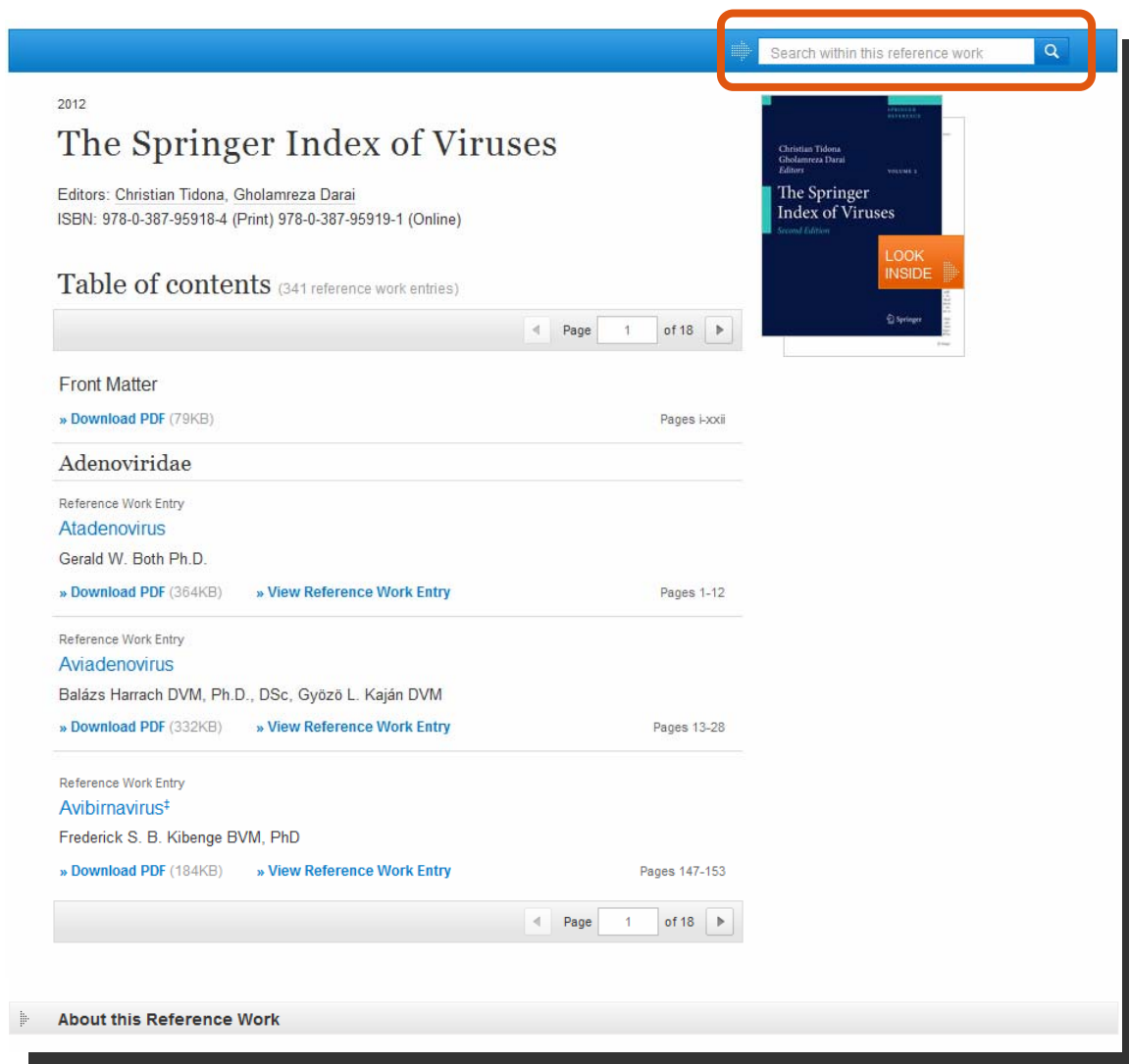
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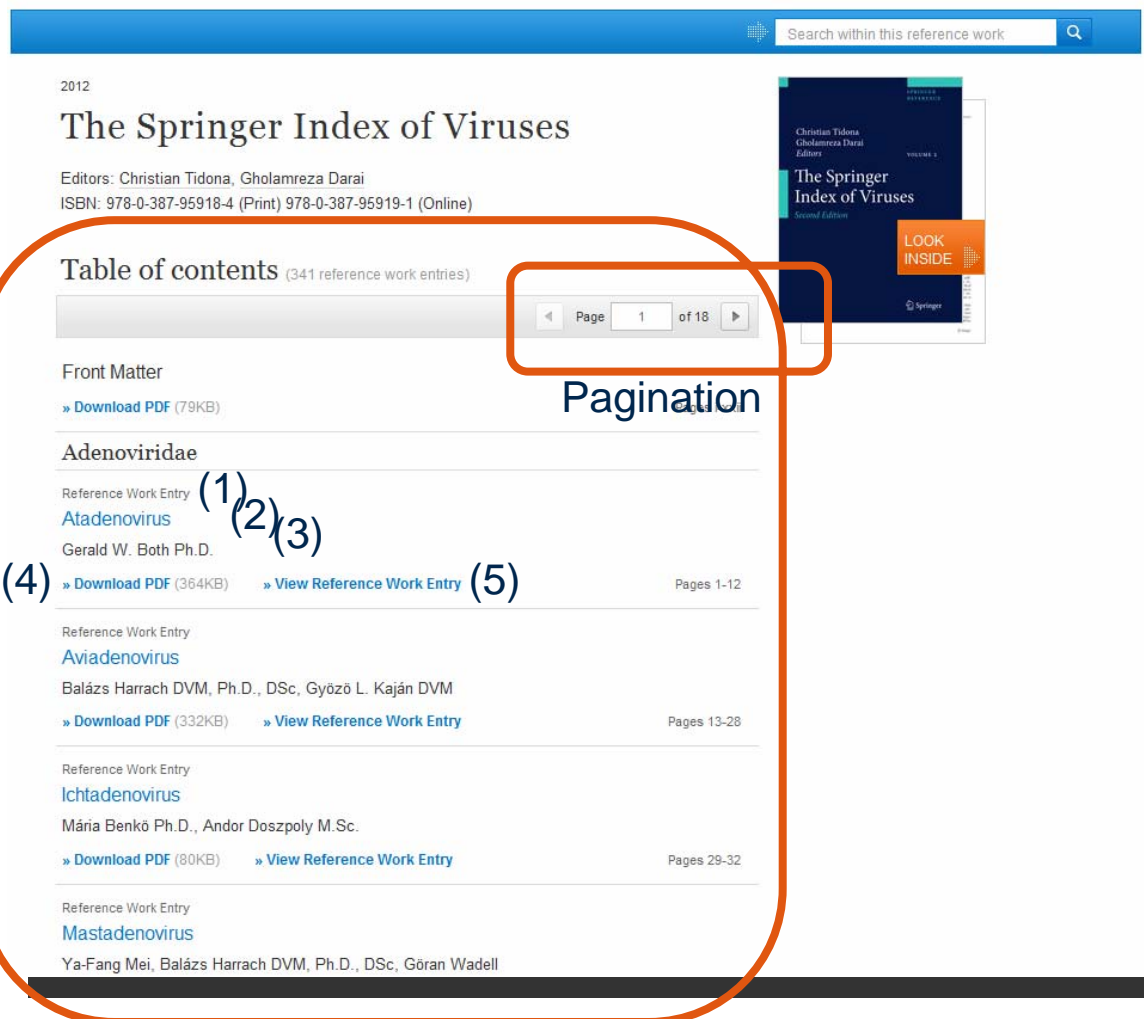
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2012

The Springer Index of Viruses

Editors: Christian Tidona, Gholamreza Darai
ISBN: 978-0-387-95918-4 (Print) 978-0-387-95919-1 (Online)

Table of contents (341 reference work entries)

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Front Matter

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Adenoviridae

Reference Work Entry (1)

Atadenovirus (2)

Gerald W. Both Ph.D. (3)

(4) » Download PDF (364KB) » View Reference Work Entry (5) Pages 1-12

Reference Work Entry

Aviadenovirus

Balázs Harrach DVM, Ph.D., DSc, Győző L. Kaján DVM

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Reference Work Entry

Ichtadenovirus

Mária Benkő Ph.D., Andor Doszpoly M.Sc.

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Reference Work Entry

Mastadenovirus

Ya-Fang Mei, Balázs Harrach DVM, Ph.D., DSc, Göran Wadell

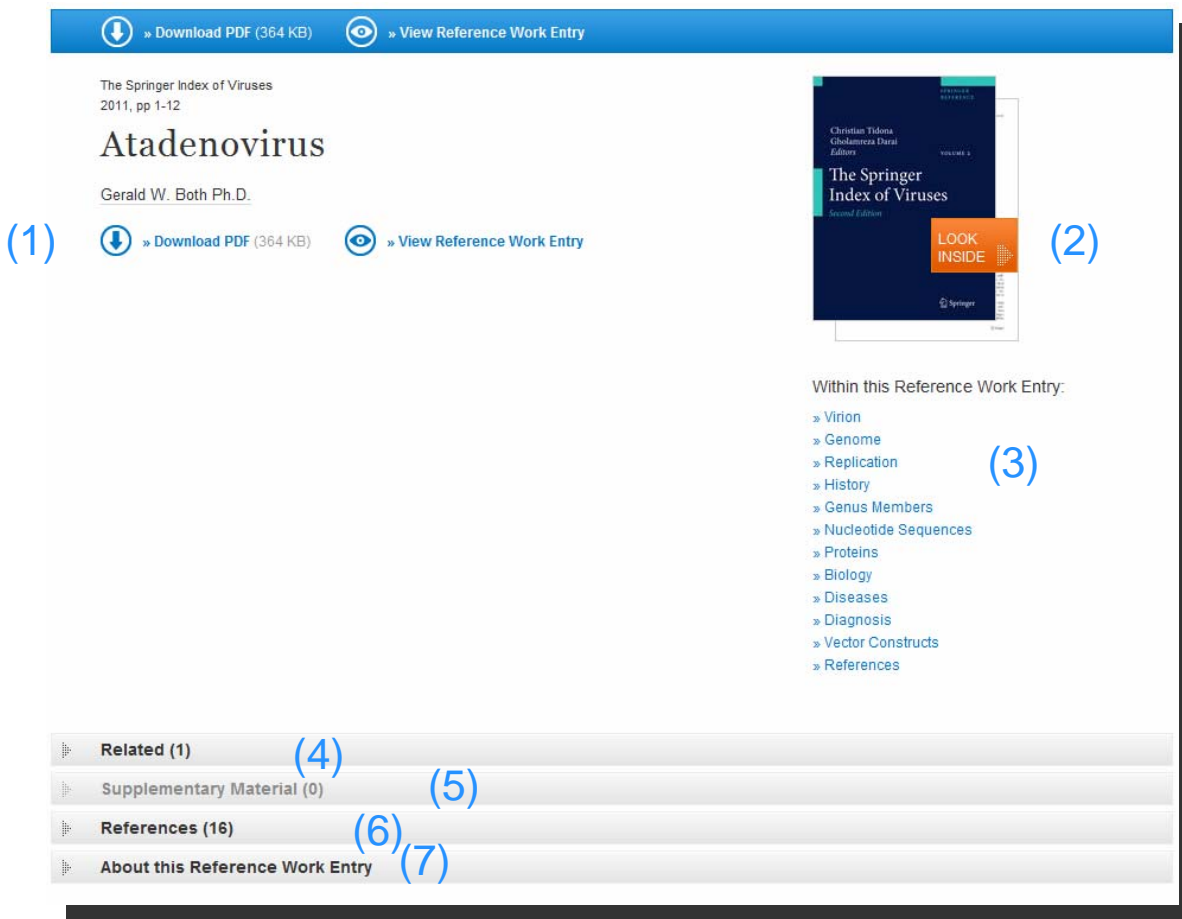
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The Springer Index of Viruses
2011, pp 1-12

Atadenovirus

Gerald W. Both Ph.D.

(2) Look Inside

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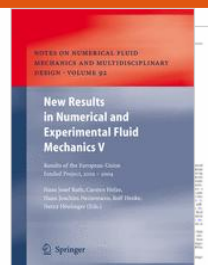
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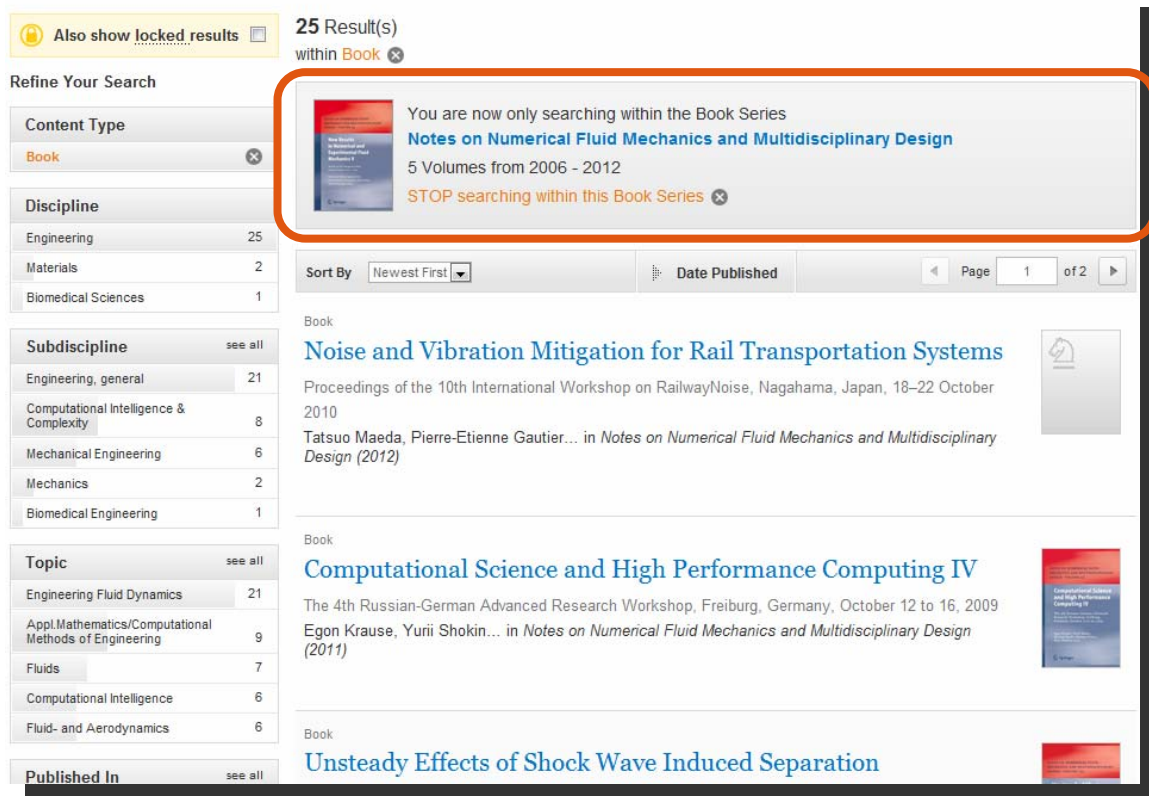


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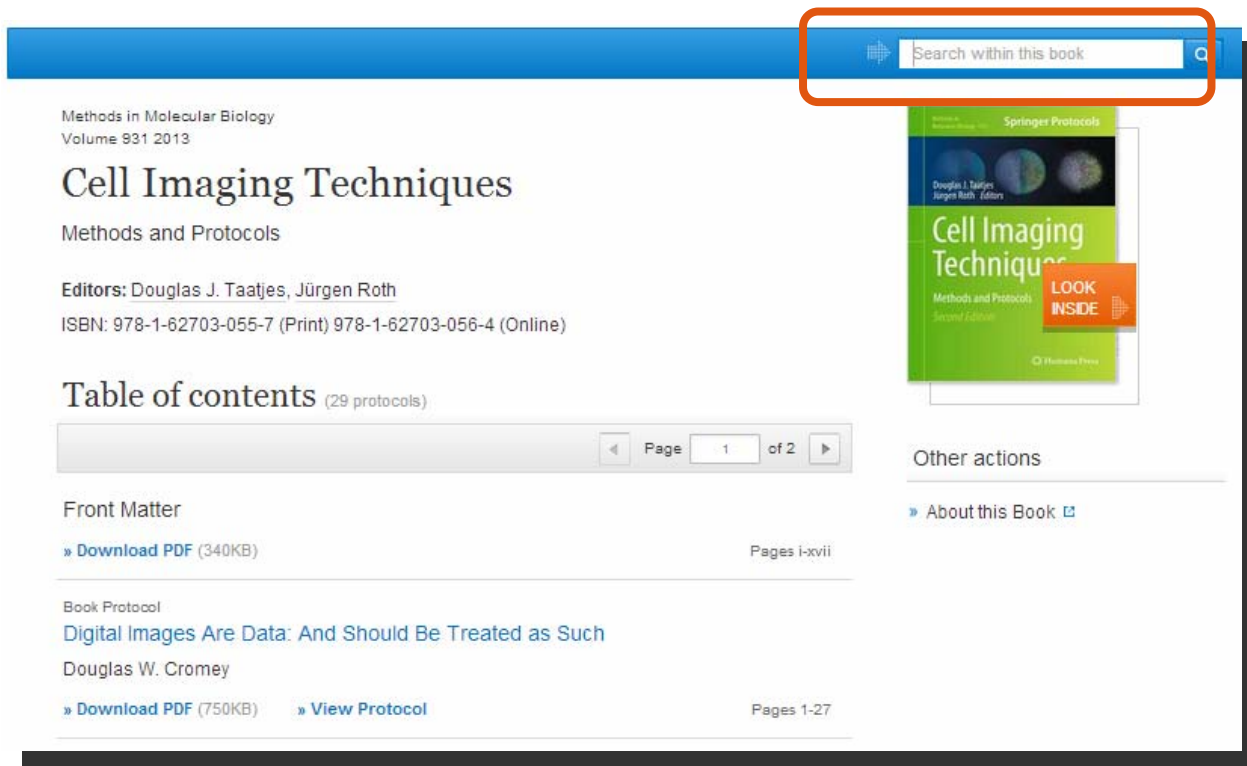
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Methods in Molecular Biology
Volume 931 2013

Cell Imaging Techniques

Methods and Protocols

Editors: Douglas J. Taatjes, Jürgen Roth
ISBN: 978-1-62703-055-7 (Print) 978-1-62703-056-4 (Online)

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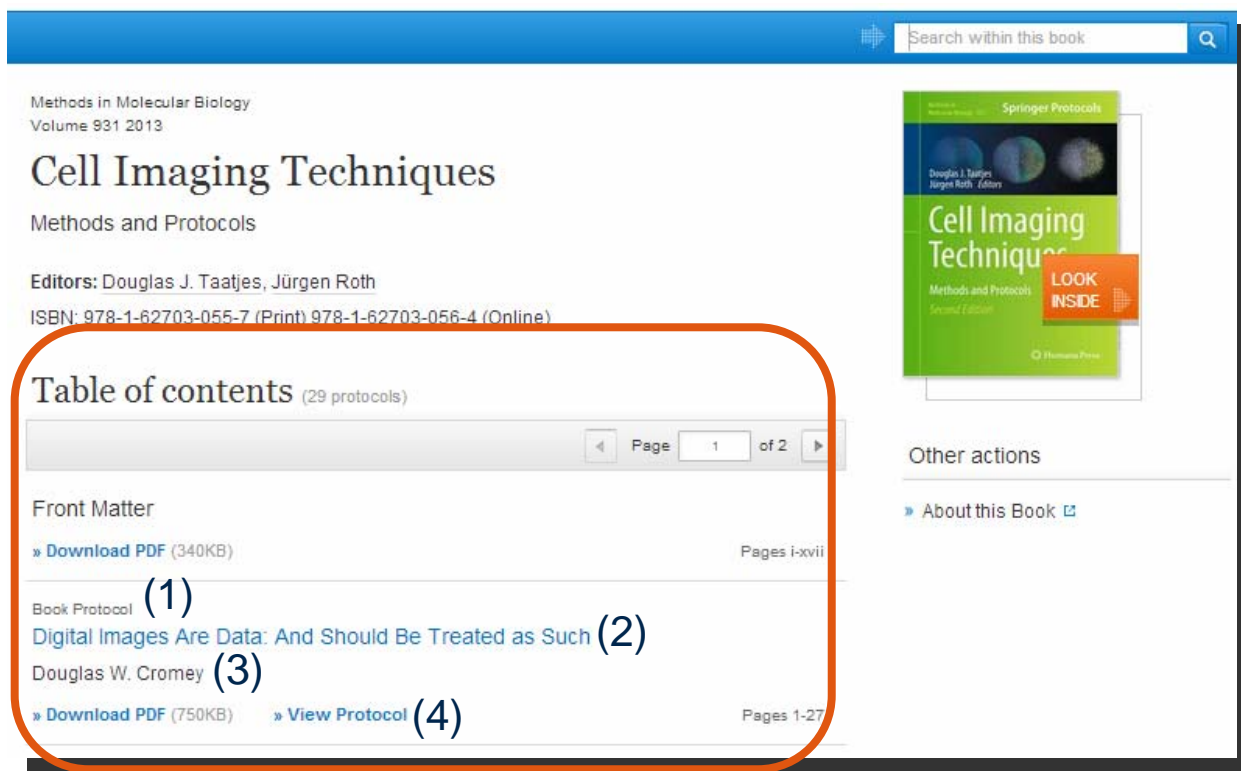
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Cell Imaging Techniques
Methods in Molecular Biology Volume 931, 2013, pp 61-84

Live-Cell Migration and Adhesion Turnover Assays

J. Lacoste, K. Young, Claire M. Brown

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Abstract

Fluorescence microscopy has revolutionized the way live-cell imaging is achieved. At the same time, it is also potentially harmful to a living specimen. Therefore, the specimen must be monitored for viability and health before, during, and after imaging sessions. Methods for monitoring cell viability and health will be discussed in this chapter. Another key to successful live-cell imaging is to minimize light exposure as much as possible. A summary of strategies for minimizing light exposure including maximizing the light throughput of the microscope and the sensitivity of light detection is presented. Various fluorescence microscopy techniques are presented with a focus on how the light is delivered to the sample (i.e., light density) and pros and cons for use with living specimens. The reader is also directed to other publications that go into these topics in more detail. Methods are described on how to prepare samples for single cell migration assays, how to measure cell migration rates (e.g., bright-field, semi-automated, and automated), and how to measure focal adhesion turnover rates. Details of how to correct images for background intensity and field-illumination uniformity artifacts for quantitative imaging are also described. Overall, this chapter will be helpful to scientists who are interested in imaging live specimens using fluorescence microscopy techniques. It will be of particular interest to anyone wanting to perform quantitative fluorescence imaging, and wanting to measure cell migration rates, and focal adhesion dynamics.

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