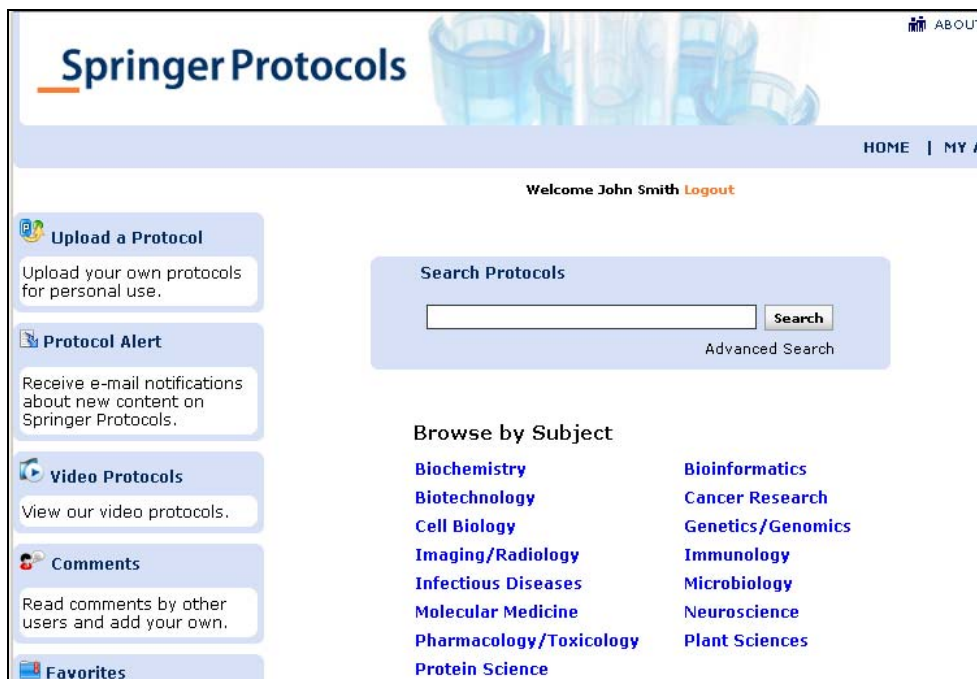


SpringerProtocols User Guide

Browse

Browsing on SpringerProtocols is easy.

- Click on a category either on the homepage or on any other site page.



The screenshot shows the SpringerProtocols homepage. At the top, there is a navigation bar with the SpringerProtocols logo, a search icon, and links for 'HOME' and 'MY ACCOUNT'. Below the navigation bar, a welcome message reads 'Welcome John Smith Logout'. On the left side, there are several menu items: 'Upload a Protocol', 'Protocol Alert', 'Video Protocols', 'Comments', and 'Favorites'. In the center, there is a search box with a 'Search' button and a link to 'Advanced Search'. Below the search box, there is a 'Browse by Subject' section with a grid of subject categories: Biochemistry, Biotechnology, Cell Biology, Imaging/Radiology, Infectious Diseases, Molecular Medicine, Pharmacology/Toxicology, Protein Science, Bioinformatics, Cancer Research, Genetics/Genomics, Immunology, Microbiology, Neuroscience, and Plant Sciences.

- Continue browsing by clicking on subcategory(ies) or years(s) to refine your browse results.



The screenshot shows the search results page for 'Biotechnology'. The page is titled 'Protocols in Biotechnology' and shows 'Results 1 - 10 of 163'. The results are displayed in a list format. The first result is 'Genetic Engineering of Plants for Phytoremediation of Polychlorinated Biphenyls' by Shigenori Sonoki, Satoru Fujihiro, and Shin Hisamatsu, published on Mar-19-2007. The second result is 'Testing the Manipulation of Soil Availability of Metals' by Fernando Madrid Diaz and M. B. Kirkham, also published on Mar-19-2007. The page includes navigation links for 'Home', 'Biotechnology', and 'Protocols in Biotechnology'. There are also filters for 'Standard' and 'Condensed' views, and a 'Sort results by' dropdown menu set to 'Relevance'. The page also shows the number of results per page, currently set to 10.

Search

You can perform a quick search from any page on the site for a set of immediate results that can be sorted by date, author, and title.

Search Protocols

Search

Advanced Search

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

Results 1 - 10 of 382 1 2 3 4 5 6 7 8 9 10 Next >>

Search results for: Text "mutagenesis" - any of the words/ (Protocol search)

Save search results

Sort results by: Relevance 10 per page Collapse View

Relevance

Date - Most Recent

Author Names

Title

S **Random Mutagenesis by Whole-Plasmid PCR Amplification**

Author(s): Donghak Kim, F. Peter Guengerich
Pub. Date: Apr-01-2002; **DOI:** 10.1385/1-59259-177-9:241
Summary: Random **Mutagenesis** by Whole-Plasmid PCR Amplification **Mutagenesis** is a popular tool used in the analysis of protein structure and function. Polymerase chain reaction (PCR)-based **mutagenesis** can be...
[Abstract](#) | [Full Text](#) | [PDF \(154K\)](#)

S **EMS Mutagenesis of Arabidopsis**

Author(s): YongSig Kim, Karen S. Schumaker, Jian-Kang Zhu
Pub. Date: Mar-15-2006; **DOI:** 10.1385/1-59745-003-0:101
Summary: EMS **Mutagenesis** of Arabidopsis A powerful approach for determining the biological functions of genes in an organism is to produce mutants with altered

You can also filter these results through a relevant list of subjects and time periods, enabling you to quickly narrow down long lists of articles to a short list of your desired results. For searches that you may perform often, or for very detailed searches, once you find your desired results, you can save that search to your account for use at a later time.

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Results 1 - 10 of 24 1 2 3 Next >>

Search results for: Text "mutagenesis" - any of the words/ published between 2004 to 2006/ subject "Cell Biology"/ (Protocol search)

Save search results

Sort results by: Relevance 10 per page Collapse View

S **Identification of Apoptosis Regulatory Genes Using Insertional Mutagenesis**

Author(s): Joëlle Thomas, Yann Leverrier, Anne-Laure Mathieu, Jacqueline Marvel
Pub. Date: May-20-2004; **DOI:** 10.1385/1-59259-812-9:275
Summary: Identification of Apoptosis Regulatory Genes Using Insertional **Mutagenesis** This chapter describes a retroviral insertion **mutagenesis** approach using replication-deficient myeloproliferative sarcoma...
[Abstract](#) | [Full Text](#) | [PDF \(219K\)](#)

Should you wish to have further refined results, use the Advanced Search feature, also located on every page. Use the advanced search feature to define your result list by any combination of keyword, abstract, title, author, subject, and date.

SEARCH Go **ADVANCED SEARCH** HOME | M

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Browse by Subject

- Biochemistry (863)
- Bioinformatics (87)
- Biotechnology (163)
- Cancer Research (532)
- Cell Biology (1052)
- Genetics/Genomics (1019)
- Imaging/Radiology (79)
- Immunology (397)
- Infectious Diseases (287)
- Microbiology (623)
- Molecular Medicine (621)
- Neuroscience (414)
- Pharmacology/Toxicology (200)
- Plant Sciences (383)
- Protein Science (800)

Advanced Search

Select Option Protocols Books

Anywhere in Text: any all exact phrase

Keywords: any all exact phrase

Abstract: any all exact phrase

Title: any all exact phrase

Author/Editor: e.g. Smith JS, Jones D

Series:

Volume No:

EISBN:


Subject:

Year: through

DOI:

Sort by:

Results: View per page

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

Personalization

SpringerProtocols allows you to personalize the site environment to suit your own needs. You can save search results for use at a later time, set up your My Protocols page, and manage alerts to be notified when desired content has been posted.

- When browsing the site, should you find articles on the site that you want to single out or visit again later, you can add them to your My Protocols area with the click of a button so you can easily find them without having to search or browse again.

The screenshot shows the article page for "Hydrolysis of Hemicelluloses Using Combinations of Xylanases and Feruloyl Esterases". The page includes a search bar at the top, a navigation menu with "HOME" and "MY A...", and a welcome message for "John Smyth". The article title is prominently displayed, followed by the authors: "By: Craig B. Faulds, Paul A. Kroon, Begofia Bartolomé², Gary Williamson³". Below the title is an "Abstract" section with a "Full Text" link and a "Download PDF (122K)" button. The abstract text describes hemicelluloses as heteropolysaccharides found in plant cell walls, composed of a xylan backbone with various side chains. It also mentions their role in preventing infection and their degradation by fungi and microbes. The "Affiliation(s)" section lists the authors' affiliations at the Institute of Food Research, Norwich, UK. At the bottom, the "Book Title" is "Carbohydrate Biotechnology Protocols", and the "Series" information includes "Methods in Biotechnology", "Volume: 10", "Pub. Date: Jul-23-1999", and "Page Range: 183-195". A "DOI" link is also provided.

- To add your own content, use the Upload a Protocol feature to add your own protocols to your My Protocols area, where they can be saved alongside your favorites.

The screenshot shows the "Upload a Protocol" form. On the left, there is a "Browse by Subject" menu with various categories and their respective article counts, such as "Biochemistry (863)", "Biotechnology (163)", and "Plant Sciences (383)". The main area is titled "Upload a Protocol" and contains a "Welcome to Upload a Protocol!" message. Below the message are "Upload Guidelines" and a list of required sections: "Introduction, Materials, Methods, Notes, References". The form includes input fields for "Protocol Title:", "First Author:", and "Affiliation(s):", with the following values entered: "DNA Sequencing Issues", "John Smyth", and "Grant University". There is also a "Co-authors" section with a table for "Author Name" and "Affiliation", where "Carrie Sanchez" and "Carlisle University" are listed. At the bottom, there is a "Protocol Information:" field with the text "This article covers dna sequencing as related to ...".

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[My Favorite Protocols](#)

[My Uploaded Protocols](#)

My Favorite Protocols

Hydrolysis of Hemicelluloses Using Combinations of Xylanases Feruloyl Esterases
 DOI: 10.1007/978-1-59259-261-6_15
 Pub. Date: Jul-23-1999
[Abstract](#) | [Full Text](#) | [PDF \(122K\)](#)

Electron Crystallography of Membrane Proteins
 DOI: 10.1007/978-1-59745-294-6_16
 Pub. Date: Feb-27-2007
[Abstract](#) | [Full Text](#) | [PDF \(543K\)](#)

My Uploaded Protocols

Protein Determination
 Author(s): John Smyth¹, Stanley Frank²
 Date Submitted: Dec-18-2007
[Abstract](#) | [Protocol](#)

DNA Sequencing Issues
 Author(s): John Smyth¹, Carrie Sanchez²
 Date Submitted: Dec-18-2007
[Abstract](#) | [Protocol](#)

- All your favorite protocols and saved searches can also be viewed from your My Account page.

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- The aforementioned Saved Searches can be viewed and managed through your account.

Saved Searches

Results 1 - 4 of 4

Search	Name	Date	Edit Search	Delete
	apoptosis	31-Dec-2007		
	ts	18-Dec-2007		
	genes	18-Dec-2007		
	immunoassay	10-Dec-2007		

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Last Name

Subjects*

<input checked="" type="checkbox"/> Biochemistry	<input type="checkbox"/> Bioinformatics
<input type="checkbox"/> Biotechnology	<input type="checkbox"/> Cancer Research
<input checked="" type="checkbox"/> Cell Biology	<input checked="" type="checkbox"/> Genetics/Genomics
<input type="checkbox"/> Imaging/Radiology	<input type="checkbox"/> Immunology
<input type="checkbox"/> Infectious Diseases	<input type="checkbox"/> Microbiology
<input type="checkbox"/> Molecular Medicine	<input type="checkbox"/> Neuroscience
<input type="checkbox"/> Pharmacology/Toxicology	<input type="checkbox"/> Plant Sciences
<input type="checkbox"/> Protein Science	

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-  [Omea Reader](#)
-  [NewzCrawler](#)
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-  [RSSDwl](#)

Sub	Title	Date	Author	Subject
	<input checked="" type="checkbox"/> Manipulation of Cell-Cell Adhesion Using Bowtie-Shaped Microwells	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Analysis of Focal Adhesions and Cytoskeleton by Custom Microarray	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Proteomic Analysis of Cell Surface Membrane Proteins in Leukemic Cells	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Bioinformatic Analysis of Adhesion Proteins	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Analysis of Integrin Dynamics by Fluorescence Recovery After Photobleaching	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Double-Hydrogel Substrate as a Model System for Three-Dimensional Cell Culture	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> In Vitro Actin Assembly Assays and Purification From Acanthamoeba	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Separation of Cell-Cell Adhesion Complexes by Differential Centrifugation	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Analysis of Neutrophil Chemotaxis	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Analysis of Leukocyte Migration Through Monolayers of Cultured Endothelial Cells	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Biochemical Purification of Pseudopodia from Migratory Cells	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Dynamic Assessment of Cell-Matrix Mechanical Interactions in Three-Dimensional Culture	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Quantitative Analyses of Cell Adhesion Strength	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Using RNA Interference to Knock Down the Adhesion Protein TES	2/25/2007 1:30 PM		
	<input checked="" type="checkbox"/> Analysis of Cell-Cell Adhesion	2/25/2007 1:30 PM		

Springer Protocols

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Analysis of Focal Adhesions and Cytoskeleton by Custom Microarray

By: [Matthew J. Dalby²](#), [Stephen J. Yarwood³](#)

Abstract

[Full Text](#) | [Download PDF \(238K\)](#)    

Focal adhesions and the cell cytoskeleton (intermediate filaments, microfilaments, microtubules) are involved in mechanotransduction—both direct (transduction of mechanical forces to the nucleus) and indirect (transduction of chemical signaling cascades to the nucleus). Thus, observation of changes in focal adhesion and cytoskeletal organization can be invaluable in research such as drug treatments and medical material testing in vitro.

Here we describe how to stain human fibroblasts for vinculin (located to focal adhesions), actin (microfilaments), tubulin (microtubules), and vimentin (intermediate filaments) and how to perform custom microarray experiments. Comparative analysis of the immunofluorescence and array data should allow the researcher to build up a global picture of the mechanical and chemical signaling pathways through the cell cytoskeleton.

Contents of this article

- [1 Introduction](#)
- [2 Materials](#)
 - [2.1 Cell Culture](#)
 - [2.2 Immunohistochemistry](#)
 - [2.3 Microarray](#)
- [3 Methods](#)
 - [3.1 Cell Culture](#)
 - [3.2 Immunohistochemistry \(Fig. 1 \)](#)

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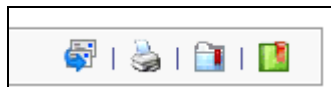
Protocols

For your convenience, there are two ways to view each protocol. Click on the Download PDF link to view the protocol exactly as it appears in the published print work. To view the protocol with special personalization and community features, click the Full Text link to view the HTML version of the article. Using the full-text HTML, you can:

- Search for the authors on SpringerProtocols or on PubMed.
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- Use our hypertext links to jump to other sections of the protocol, or to specific notes, references, figures, and tables.
- Download the Materials and Reference sections right to your desktop.

The screenshot shows a web interface for a protocol article. At the top, there is a search bar and navigation links for HOME, MY ACCOUNT, and MY PROTOCOLS. A welcome message for John Smyth is displayed. The main content area includes the article title, author information (Celeste M. Nelson, Wendy F. Liu, Christopher S. Chen), affiliation (Lawrence Berkeley National Laboratory and University of Pennsylvania), book title (Adhesion Protein Protocols), series information (Methods in Molecular Biology, Volume 370, Feb-26-2007), page range (1-9), DOI (10.1007/978-1-59745-353-0_1), and subject (Protein Science). An abstract section follows, describing traditional methods and a novel approach using microfabricated stamps. A 'Download PDF (170K)' link is provided. On the left, a 'Contents of this article' sidebar lists sections like Introduction, Materials, Methods, Notes, and References. Below that is a 'Browse by Subject' section with categories like Biochemistry (863), Bioinformatics (87), and Biotechnology (163). On the right, there are sections for 'Inside Springer Protocols' (New, Free, Popular Protocols, Tour, etc.) and 'Useful Tools' (Related Books, Similar Protocols, Export Citation, Comment, etc.).

- You can share with others by e-mailing the protocol to a colleague or tagging it to one of your favorite bookmarking sites.



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A Murine Model for Studying Hematopoiesis and Immunity in Heart Failure

By: Per Ole Iversen², Dag R. Sørensen³

Inside Springer Pro

New Protocols

Free Protocols

Abstract

Full Text | Download PDF (463K)

Recent epidemiological research indicates that a coexistent anemia among patients with heart failure might worsen their prognosis. However, whether the reduced synthesis of red blood cells is a contributing factor to the development and progression to overt heart failure, or whether it simply is a mere consequence of a dysfunctional heart, remains to be elucidated. Studies in mice with experimentally induced acute myocardial infarction leading to subsequent development of a postinfarction congestive heart failure have shed some light on this problem. Careful analyses of the number and of the functions of various hematopoietic cells residing in either blood or bone marrow point to a possible inhibitory role of cytokines, such as tumor necrosis factor α , on hematopoiesis. The present protocol

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Useful Tools

- Related Books
- Similar Protocols
- Export Citation
- Comment
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- Export the citation of the protocol in ris format. Other formats will be added later.






Useful Tools

- Related Books
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Content: application/x-research-info-systems
TY - CHAP
ID - 10.1385/1-59259-746-7:451
TI - Inhibition of Gene Expression by Nucleic Acid Enzymes in Rodent Models
T2 - Ribozymes and siRNA Protocols
T3 - Methods in Molecular Biology
AU - Iversen, Per Ole
AU - Sioud, Mouldy
PY - 2004/03/05
SP - 451
EP - 456
VL - 252
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Title: A Murine Model for Studying Hematopoiesis and Immunity in Heart Failure
Author(s): Per Ole Iversen, Dag R. Sørensen
Book Title: Target Discovery and Validation Reviews and Protocols: Volume 1, Emerging Strategies for Targets and Biomarker Discovery
Series: Methods in Molecular Biology
DOI: 10.1385/1-59745-165-7:269

Comments

Results 1 - 2 of 2






Comments

By **John Smyth** Dec-13-2007 06:35 AM

This study should encourage further studies of hematopoiesis and immunity in heart failure by using a combination of animal models with state-of-the-art techniques in molecular biology to define and validate possible targets for therapy.

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<input type="checkbox"/> Protein Science	

Site information

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(Please allow ample time for the Springer Protocols team to authenticate IP ranges.)

IP Range

Examples of valid IP Range:
2.3.4.5
2.3.4.*
2.3.4.5-10
2.3.4.5:2.3.4.8
2.3.4.5:2.3.4.8/2.7.8.5:2.7.8.9

Comments/Special Instructions

Tools

Listed here is a brief description of the Tools features.





Tools

- Account Administration
(manage IPs, view usage statistics, manage branding, etc.)
- Download list of Contents
- User Guides
- Springer Protocols Logos
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Institution Address:	
Company/Institution:*	<input type="text" value="Acme University"/>
Address 1:*	<input type="text" value="210 Grand Plaza"/>
Address 2:*	<input type="text" value="Building 4"/>
City:*	<input type="text" value="Totowa"/>
State/Provision:*	<input type="text" value="NJ"/>
Zip/Postal Code:*	<input type="text" value="07512"/>
Country:*	<input type="text" value="United States"/>
Primary Contact:	
First Name: *	<input type="text" value="John"/>
Last Name: *	<input type="text" value="Smith"/>
Position:	<input type="text"/>
Phone:	<input type="text"/>
Fax:	<input type="text"/>
E-mail Address:*	<input type="text" value="test@test.com"/>
Confirm E-mail Address:*	<input type="text" value="test@test.com"/>

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Subscribed Subject Collection		
Subject Collection Name	Start Date	End Date
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Bioinformatics	Jul-20-2007	Jul-20-2010
Neuroscience	Jul-20-2007	Jul-20-2011
Molecular Medicine	Jul-20-2007	Jul-20-2011
Protein Science	Jul-20-2007	Jul-20-2010
Infectious Diseases	Jul-20-2007	Jul-20-2011
Pharmacology/Toxicology	Jul-20-2007	Jul-20-2011
Imaging/Radiology	Jul-20-2007	Jul-20-2010
Biotechnology	Jul-20-2007	Jul-20-2011
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Genetics/Genomics	Jul-20-2007	Jul-20-2010
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Cell Biology	Jul-20-2007	Jul-20-2011

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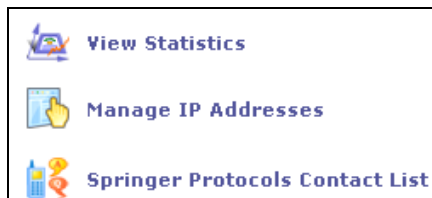
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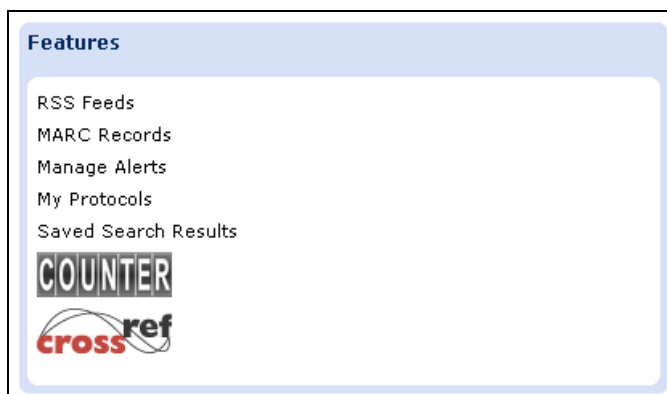
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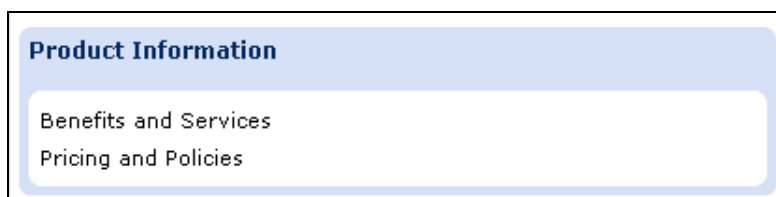
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