

Springer Protocols User Guide

Browse

Browsing on Springer Protocols is easy.

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

The screenshot shows the Springer Protocols homepage. At the top left is the Springer Protocols logo. To the right of the logo is a navigation bar with 'HOME' and 'MY ACCOUNT'. Below the logo is a search bar with a 'Search' button and a link to 'Advanced Search'. 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 'Browse by Subject' section with a grid of subject categories including 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 Springer Protocols search results page for 'Biochemistry'. The search bar at the top contains 'Biochemistry' and the 'Go' button is highlighted. The search results are displayed in a grid format. The first result is 'Conventional Specimen Preparation Techniques for Transmission Electron Microscopy of Cultured Cells' by John J. Bozzola, published in February 2007. The second result is 'Cell-Free Extract Systems and the Cytoskeleton: Preparation of Biochemical Experiments for Transmission Electron Microscopy' by Margaret Coughlin, William M. Brieher, and Ryoma Ohi, also published in February 2007. The page includes a 'Browse by Subject' sidebar on the left and a 'Browse by Year' sidebar on the right. The search results are sorted by 'Relevance' and displayed in 'Standard' view.

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

Advanced Search

SEARCH [ADVANCED SEARCH](#) [HOME](#) | [MY](#)

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: per page

Free Subscr

Random Muta smid 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 \(154K\)](#)

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.

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

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: per page

Free Subscribed Trial

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

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

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

Springer Protocols 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 a web page with a search bar at the top left and navigation links for 'HOME' and 'MY'. The user is logged in as 'John Smyth'. The article title is 'Hydrolysis of Hemicelluloses Using Combinations of Xylanases and Feruloyl Esterases' by Craig B. Faulds, Paul A. Kroon, Begofa Bartolomé, and Gary Williamson. The abstract describes hemicelluloses as heteropolysaccharides in plant cell walls, often substituted with sugar side chains like acetyl, feruloyl, and coumaroyl. It notes their role in cell wall strength and protection against pathogens. The article is from the 'Carbohydrate Biotechnology Protocols' series, volume 10, pages 183-195, published in July 1999. A table of contents on the left lists sections like Introduction, Materials, and Methods.

- 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. It includes a 'Browse by Subject' sidebar with categories like Biochemistry (863), Bioinformatics (87), and Biotechnology (163). The main form area has a welcome message and upload guidelines. It contains input fields for 'Protocol Title' (DNA Sequencing Issues), 'First Author' (John Smyth), and 'Affiliation(s)' (Grant University). Below this is a 'Co-authors' table with columns for 'Author Name' and 'Affiliation', with one entry for Carrie Sanchez at Carlisle University. At the bottom, there is a 'Protocol Information' field with the text 'This article covers dna sequencing as related to ...'.

My Protocols

 [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.

My Account

	Edit Account		My Protocols
	Manage Alerts		Saved Search Results
	Logout		

To manage your alerts, click Manage Alerts and choose the subject collections that you wish to receive e-mail notification for.

Alerts

Keep yourself on the cutting-edge! Receive email notifications about new content on Springer Protocols. Email updates include a hyperlinked table of contents, allowing you to browse and access new content right from your inbox. * required

E-Mail

First Name

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	

I do not wish to receive alerts.

E-mail Format*

HTML Text-Only


We prefer to send our customers HTML formatted emails whenever possible. HTML formatted emails provide you with improved design and readability. For the purposes of data protection legislation, submitting this page will indicate you have opted-in, and provided direct consent to receive the e-alerts you have selected. To find out more about our commitment to confidentiality and data protection, please see our [privacy policy](#).

RSS








Use RSS feeds to keep up to date with the latest Springer Protocols content! By choosing an RSS feed for one or more of our subject collections, you can be notified when new content is posted to the site for that particular collection. You will find the title and abstract in your news aggregator or reader. To use RSS, you must choose a news aggregator or a reader. These are software applications that can collect RSS feeds from many Web sites. You can choose a reader from the list on our RSS page, or use your own.

RSS Feeds

Use RSS (really simple syndication) feeds to keep up to date with the latest Springer Protocols content! By choosing an RSS feed for one or more of our subject collections, you can be notified when new content is posted to the site for that particular collection. You will find the title and abstract in your news aggregator or reader. To use RSS, you must choose a news aggregator or a reader, a software application that can collect information from many Web sites. If you do not have one, you can choose from one listed on our RSS page or you may choose one of your own. We do not recommend any specific reader/aggregator, but provide a short list for convenience. RSS feeds are convenient because, since you can have feeds from multiple Web sites going into one reader/aggregator on your computer, you can view samples of this content without having to visit so many Web sites. Springer Protocols RSS feeds are part of the Springer Protocols Web site. By using any or all of these feeds, you consent to be bound by our [terms of use](#).

 [New Protocols](#)







Web feed by Subject Collection

-  [Biochemistry](#)
-  [Bioinformatics](#)
-  [Biotechnology](#)
-  [Cancer Research](#)
-  [Cell Biology](#)
-  [Genetics/Genomics](#)
-  [Imaging/Radiology](#)

Inside Springer Protocols

- [New Protocols](#)
- [Free Protocols](#)
- [Popular Protocols](#)
- [Tour](#)
- [For Contributors/Editors](#)
- [For Library Administrators](#)

RSS Aggregators

-  [Sharp Reader](#)
-  [Google Reader](#)
-  [Omea Reader](#)
-  [NewzCrawler](#)
-  [Safari \(Mac OS\)](#)
-  [RSSOwl](#)

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		

Springer Protocols

SEARCH [ADVANCED SEARCH](#) [HOME](#) | [MY ACCOUNT](#) | [MY PROTOCOLS](#)

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

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)

Analysis of Focal Adhesions and Cytoskeleton by Custom Microarray

By: [Matthew J. Dalby](#)², [Stephen J. Yarwood](#)³

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 changes to both direct and indirect mechanotransduction through the actin cytoskeleton.

Inside Springer Protocols

- [New Protocols](#)
- [Free Protocols](#)
- [Popular Protocols](#)
- [Tour](#)
- [For Contributors/Editors](#)
- [For Library Administrators](#)

Useful Tools

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 Springer Protocols or on PubMed.
- Trigger an immediate keyword search on Springer Protocols by clicking any one of the key words listed beneath the abstract.
- Use the contents of this article box to jump directly to any of the main areas of the protocol.
- 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 the Springer Protocols interface. At the top, there is a search bar and navigation links for HOME, MY ACCOUNT, and MY PROTOCOLS. The user is logged in as John Smyth. The article title is "Manipulation of Cell-Cell Adhesion Using Bowtie-Shaped Microwells" by Celeste M. Nelson, Wendy F. Liu, and Christopher S. Chen. The article is part of the "Adhesion Protein Protocols" book. The abstract describes a novel method for culturing cells on microwells. The page includes a table of contents, a subject browse list, and various utility tools like "Download PDF" and "Export Citation".

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

The form is titled "E-mail a friend" and contains the following fields and content:

- *Your Name: John Smyth
- *Your e-mail: test1@test1.com
- *Your Friend's name: Sally Hernandez
- *Your Friend's e-mail: s.hernandez@test.com
- Subject: Murine Model Protocol
- Message: Thought you might like to read this.
John

Buttons for "Send" and "Cancel" are located at the bottom right of the form.

A Murine Model for Studying Hematopoiesis and Immunity in Heart Failure

By: Per Ole Iversen², Dag R. Sørensen³

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

Inside Springer Pro

New Protocols

Free Protocols

Bookmarks

Digg

citeulike

connotea.org

del.icio.us

Share your ideas and thoughts with the online community by commenting on a protocol or by responding to comments already made by other users.

Useful Tools

 Related Books

 Similar Protocols

 Export Citation

 [Comment](#)

 Recommend to your library administrator

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

Submit

Cancel




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.

If your institution does not have a subscription to Springer Protocols, or does not have a subscription to the content you are interested in, you can make a recommendation to your institutional administrator.

Useful Tools

-  Related Books
-  Similar Protocols
-  Export Citation
-  Comment
-  [Recommend to your library administrator](#)

Recommend to your Library Administrator

If you would like your institution to have a subscription to Springer Protocols, please complete the form below to recommend a subscription to your librarian.

First Name:*

Last Name:*

Position:*

Department:

Institution:

Phone:

E-mail Address:*

Library Administrator Name:*

Library Administrator E-mail:*

I would like to recommend an institutional subscription to the following areas of interests: *

<input type="checkbox"/> Biochemistry	<input type="checkbox"/> Bioinformatics
<input type="checkbox"/> Biotechnology	<input type="checkbox"/> Cancer Research
<input type="checkbox"/> Cell Biology	<input 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	

I am making this recommendation for the following reason(s):

We hope you enjoy your visit to Springer Protocols. Thank you.