SpringerProtocolos y SpringerImages: nuevas herramientas para la investigación y enseñanza

Presentación

Thijs Willems

Springer





Madrid

17 de septiembre de 2009

Comprehensive database of peer reviewed, reproducible procedures for scientific experiments

SPRINGERPROTOCOLS

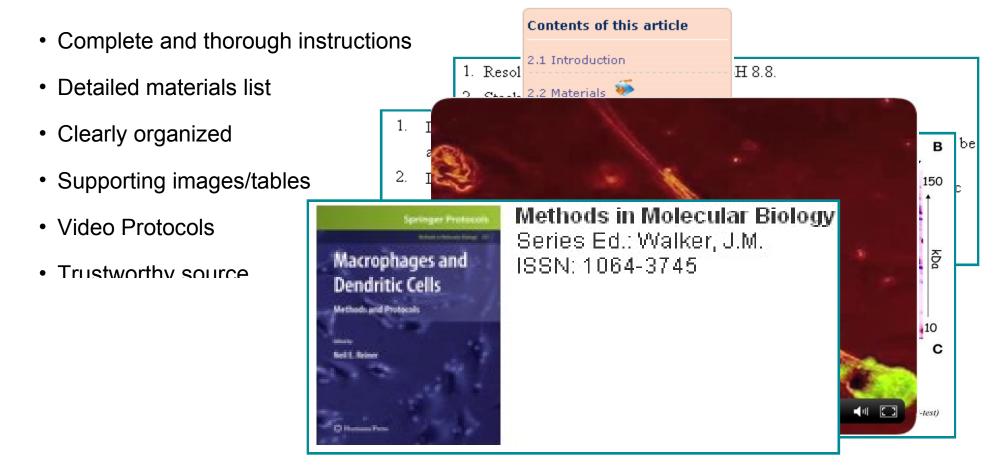
Contents

- What are protocols?
- SpringerProtocols: content
- SpringerProtocols: platforms
- SpringerProtocols: business model

- Step-by-step instructions, in a standardized format, that help researchers conduct experiments
- Predefined written procedural methods in the design and implementation of experiments including:
 - Bias
 - -Safety
 - -Equipment
 - -Statistical methods
 - -Reporting
 - Troubleshooting
- Used primarily in the life sciences



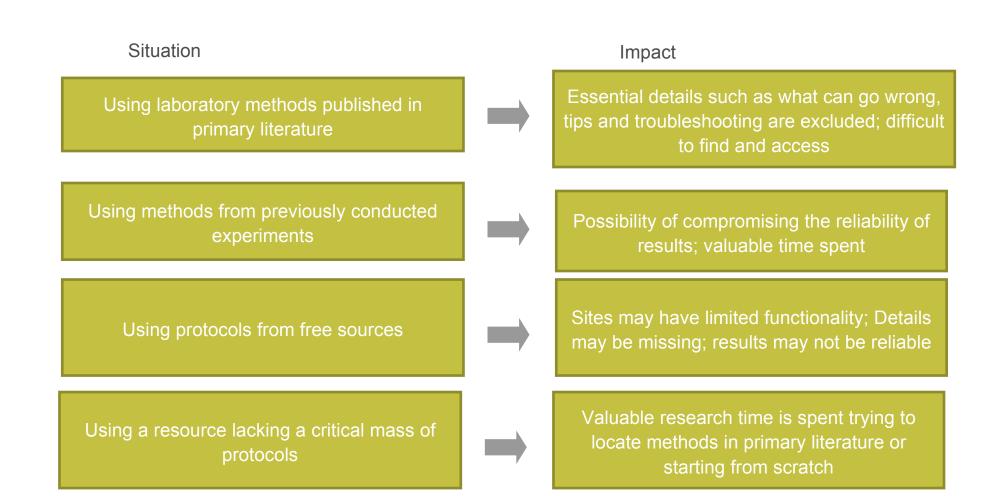
What makes a good protocol?



Researchers use protocols to:

- Solve biological problems on a molecular level
- Identify, understand, manipulate, and explain biological processes, functions, structure, and activity of molecular cell components
- Target cellular processes involved in disease (useful in developing early diagnosis and targeted treatments)
- Discover new approaches to treating disease
- Develop new drugs and lower the cost of drug development

What is the impact when protocols are missing?



CONTENT

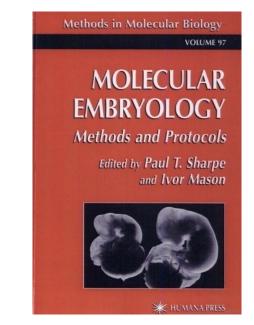
- Book Series (by Humana Press)
 - -Methods in Molecular Biology
 - Editor: Dr. John M. Walker
 - -Methods in Molecular Medicine
 - -Methods in Biotechnology
 - -Methods in Pharmacology and Toxicology
 - -NeuroMethods
- Journals

All protocols are peer-reviewed

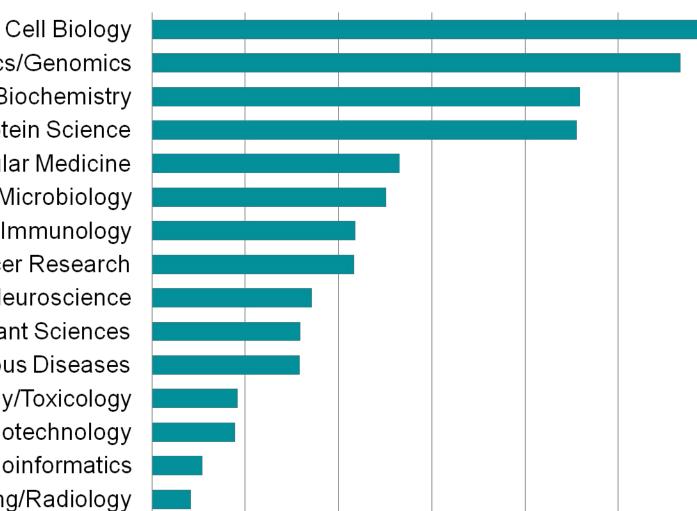
Hand Books

- -The Protein Protocols Handbook
- -Molecular Biomethods Handbook

And many more....



Subject Collections



of Protocols

Genetics/Genomics Biochemistry **Protein Science** Molecular Medicine Microbiology Immunology Cancer Research Neuroscience Plant Sciences Infectious Diseases Pharmacology/Toxicology Biotechnology **Bioinformatics** Imaging/Radiology

Majority of Springer Protocols are available in other indexes:

- MEDLINE
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- Embase.com
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- ISI Web of Science
- Google and Google Scholar

And many more...









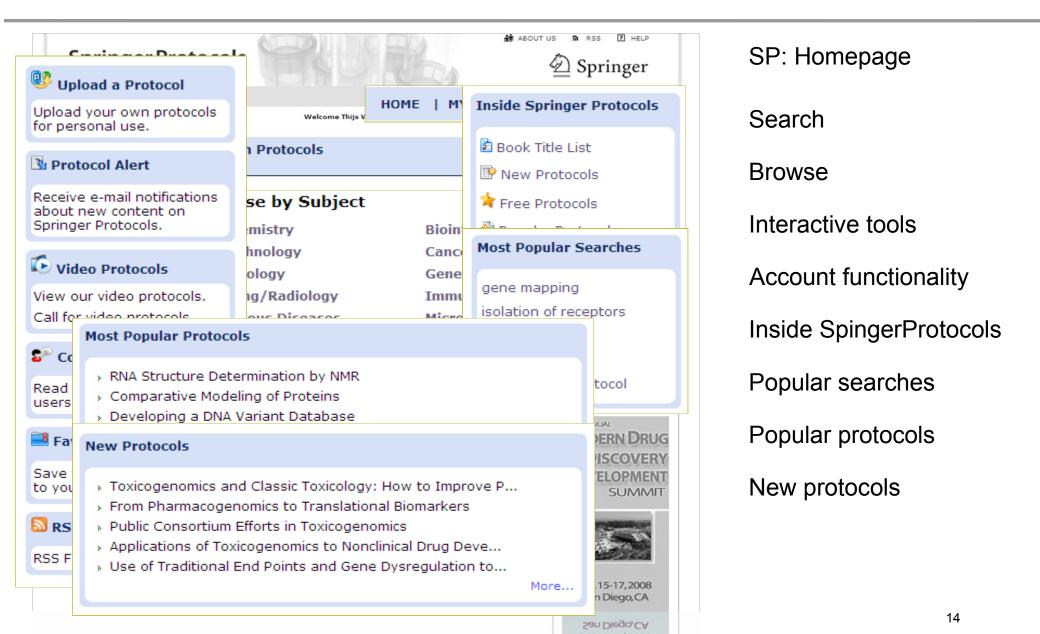


• SpringerProtocols database adds about 2,000 protocols every year

• The SpringerProtocols database keeps the alternative version, when a protocol is being updated. This allow labs without latest equipment to produce the same experiment with older equipment or methods

PLATFORMS

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|---|--|---|---|
| 17.1.2 Tissue s By: Christophe 17.1.3 Tissue s Affiliation(s) 17.1.4 LMD Book Title: A Series: Meth | lissection Sample Preparation for RN | , IL <u> s</u> .4 Pub. Date: | Table of content Bibliographic info Article tools |
| 17.2.2 Tissue S 17.2.3 Tissue S 17.2.4 LMD 17.3 Methods 17.3.1 Suppres Ac 17.3.2 Tissue S 17.3.2 Tissue S 17.3.3 Tissue S 17.3.4 LMD 17.3.4 LMD Key Words: | sion analysis provides an insight into the characteristics of a given cell type. How hinder gene analysis studies from most on (LMD) technique allows for the unan n. However, preserving RNA integrity car ely limited amount of starting material, aboratory procedures for reducing ribo nd in the laboratory environment, are in RNA isolation and quantitation. Quality e from flash-frozen and paraffin-embed tains such as hematoxylin and eosin (H lization of the cells of interest. Followin Id precede downstream analysis. Laser microdissection - laser capture m e preparation - RNase | ve Related Books nb Similar Protocols so Export Citation re Comment R Recommend to your Ibrary administrator View This Article on | Abstract Useful tools |
| 17.4.1 Tissue Time 17.4.2 How Many Cells to Co 17.4.3 How Much RNA will I 17.4.4 Determine the Qualit References | ndently of their surrounding. That is, the unique expression profile will not be obscured by expression levels contributed from neighbor neighboring cells are not without value as they can be captured sep tive studies, for example, expression variations in cancerous tissue a tissue. Ippressing Ribonuclease Activity reparing samples, to protect RNA from degradation, is paramount ID isolation for gene expression analyses. The ribonuclease (RNase yzes the cleavage of nucleotides in RNA leading to degradation. Unit erywhere. The ubiquitous nature of these molecules makes working purpose of isolating RNA, a challenging endeavor. educing the effects of RNases within solutions and upon laboratory | ring cells. arately to versus to the e) family of fortunately, g with | 15 |

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| 310 | Chemical Genomics: Reviews and Protocols | Test Editor | 978-0-89603- 493-4 | 978-0-89603- 493-4 | Biochemistry | 10.1007/978- 1-59259- 948-6 | Aug-01- 2005 | Aug-01-2005 |
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| | Chapter 5. However, the use of poly | on polyacrylamide gels has been desc acrylamide gels that have a gradient (and hence decreasing pore size) can | |

SL: Full-text protocol

Bibliographic info

Useful tools

PDF & HTML link

Chapter 5. However, the use of polyacrylamide gels that have a gradient of increasing acrylamide concentration (and hence decreasing pore size) can sometimes have advantages over fixed-concentration acrylamide gels. During electrophoresis in gradient gels, proteins migrate until the decreasing pore size impedes further progress. Once the "nore limit" is reached, the protein banding

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- Content:
 - Subject packages only access via SpringerProtocols
 - Full collection access via SpringerProtocols and SpringerLink
- Tiered pricing based on size of institution

- Trial (new customers only)
 - 60 days duration
 - With consent to market directly to end users during trial
 - Usage statistics available after trial

Summary

Largest Database

- -20,000 by end of 2009
- 2,000 added annually
 - 1,000 updated

Quality Content

- Methods in Molecular Biology
 - Editor-in-Chief Dr. John Walker
- Journals
- Peer Reviewed
- Indexed by PubMed

Content Updated Constantly

- User-Centric features
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Your guide to the essence of research

SPRINGERIMAGES

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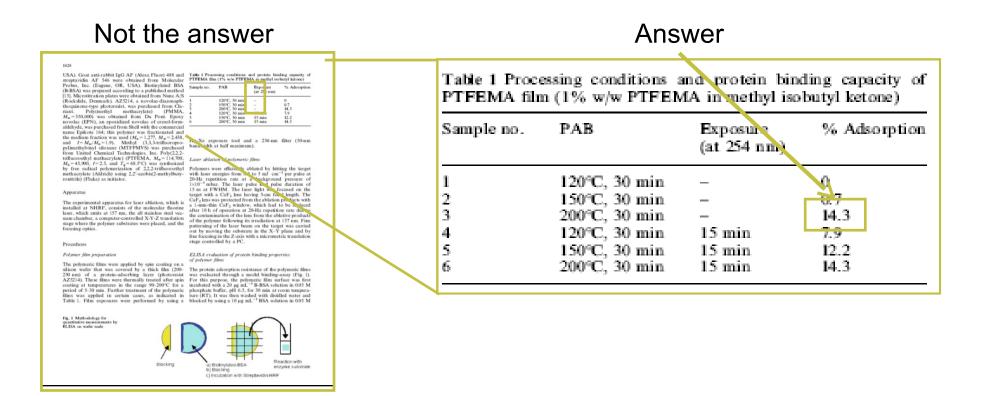
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- Content
- Site guide
- Business model

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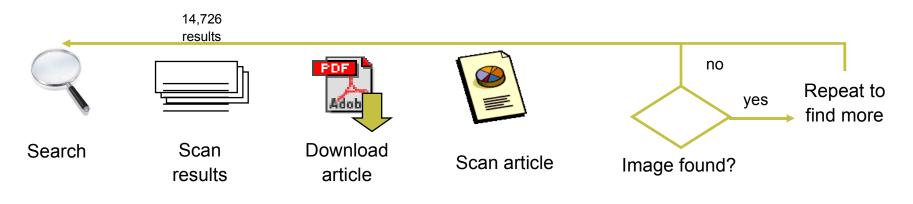
Because often, researchers are looking for answers to specific questions...

...and those answers are in the images

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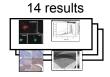
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Finding images via SpringerImages



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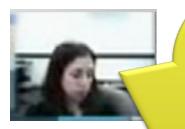




Get answer

Reseachers.... • Find <u>more</u> images • Find them <u>easier</u> • Get answers <u>faster</u>

Feedback from researchers during a usability test



"I wanted to put in a particular biochemical pathway image. I went to Google Images... I tried to do it through PubMed, searching for a few articles...but I wasn't able to find what I was looking for."

"Searching in PubMed, you can't see until you go the article and scroll through and see whether it has the image you're looking for."

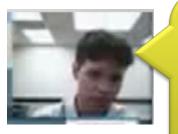
"Google Images, there's all sorts of crap in there..."

"I had to look through all these articles by hand to find a nice picture of the pathway."

More feedback



"You can in fact skip reading the whole paper and honestly that is a huge improvement... it's one of the most time consuming things in academia."



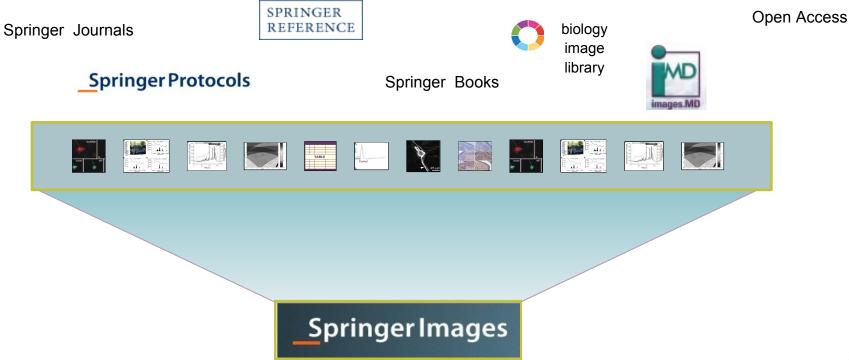
"I liked the details of a given image... being able to drill down and get specific information related to the data itself...

...that is really important for people who are interested in sharing information which isn't their own. That is a really useful detail that I can't say that I've seen in any other database."

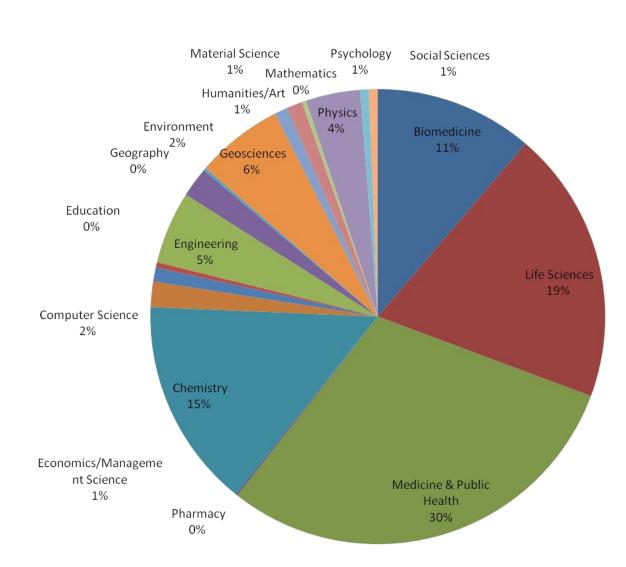
Users appreciate the time savings, the supporting data, and the quality.

SPRINGERIMAGES

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 - Images include: drawings, photos, tables, charts, etc.



SpringerImages: an all science image database

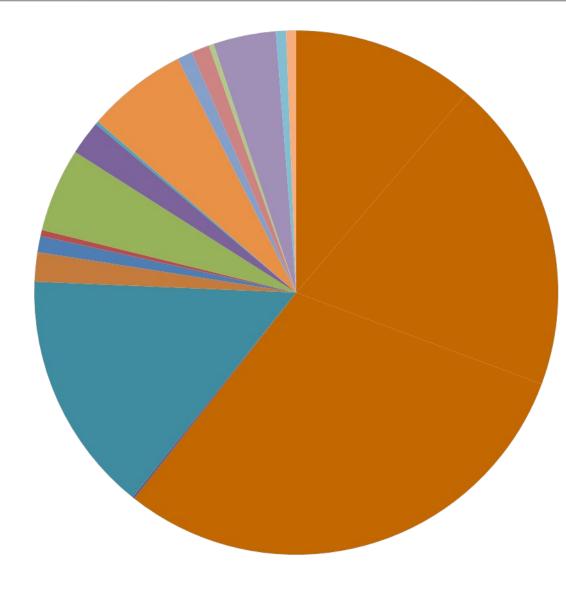


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| 29,000 | Computer Science |
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| 6,000 | Education |
| 83,000 | Engineering |
| 34,000 | Environment |
| 3,000 | Geography |
| 100,000 | Geosciences |
| 15,000 | Humanities/Art |
| 18,000 | Material Science |
| | 35 |

5 000 Mathematics

35

All science image database – strong in medicine and life sciences



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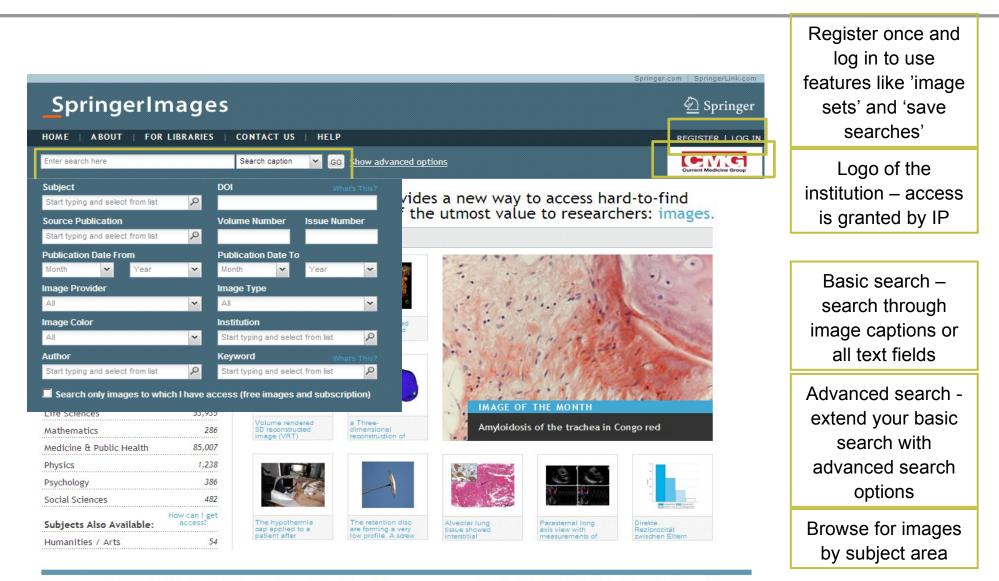
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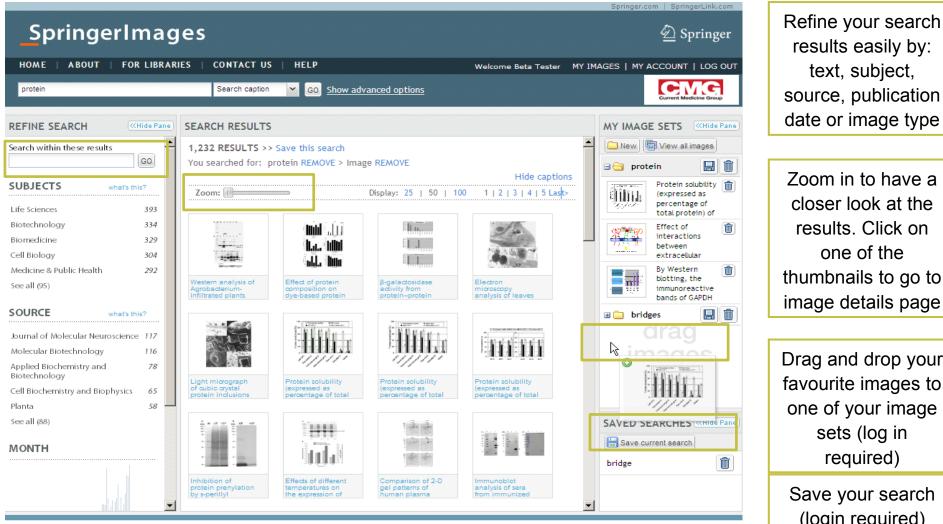
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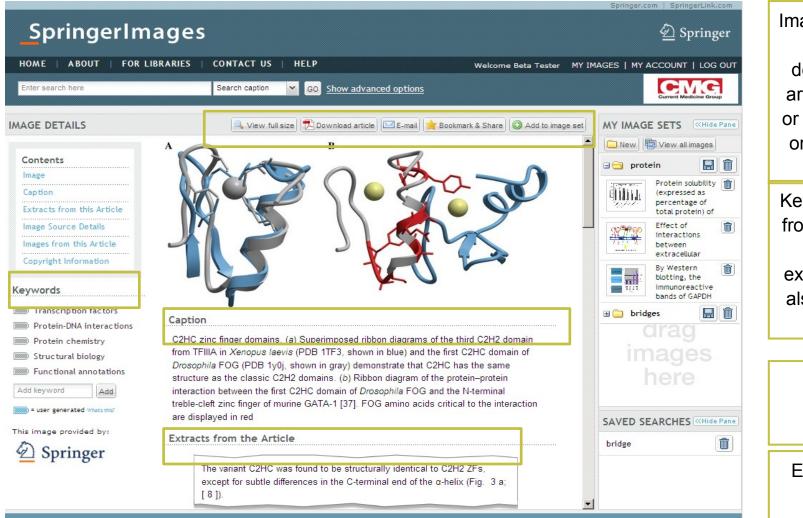
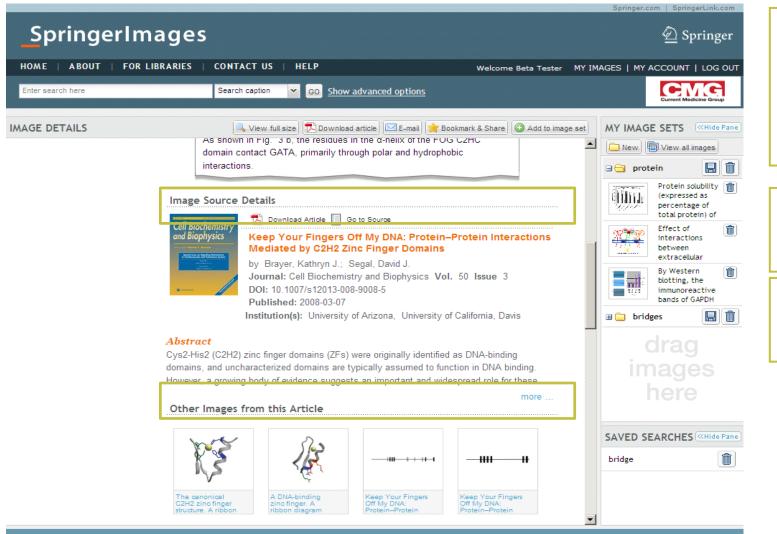


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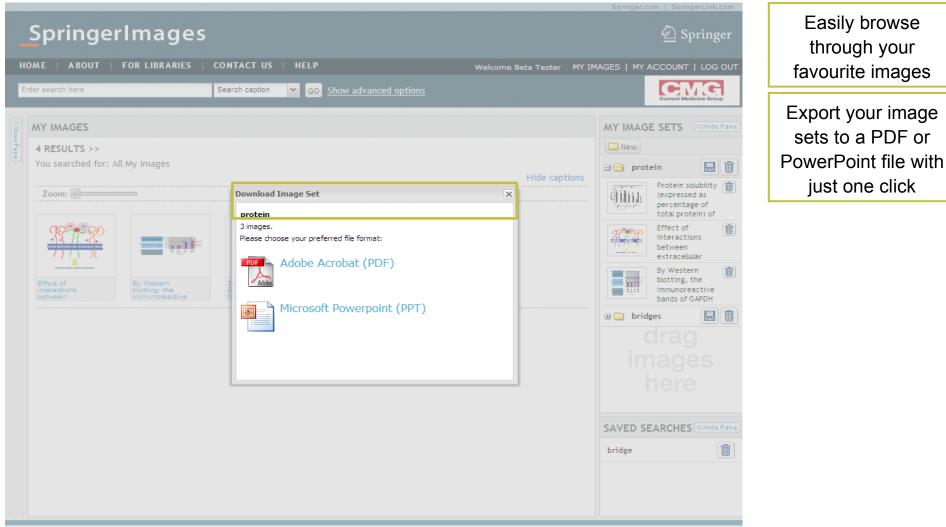
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- Administrator tool to easily manage access and to provide usage statistics

Key Facts About SpringerImages - search (I)

• Search

- Captions
- Sentences in the text that

include references to the images

- Content of tables

– Keywords

Extracts from the Article

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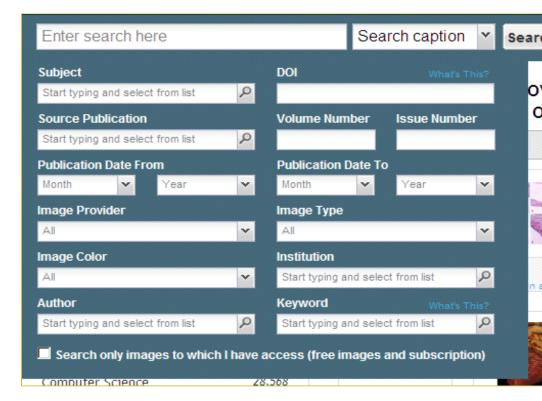
In the posterior atrio-ventricular groove the fistula showed a tortuous meandering course and terminated in the superior vena cava just above the right atrial appendage (Figs. 2 and 5).

While the diagnosis of this anomaly is usually made on the thin-slice original axial images, an overview of the whole curse of the anomaly can be obtained using MPR, thin-slice MIP (Fig. 2), and 3D-VRT (Figs. 3-5) of MDCT.

| Compound | B. rufocinctus | B. morrisoni | B. griseocollis a | B. confusus b | B. vorticosus ^c | M+. |
|--|-------------------|-----------------|-------------------------|---------------------|-------------------------------|-----|
| Tetradecyd acetate | - | _ | 82% | - | _ | 256 |
| 9-Octadecenol | 5% | - | _ | - | - | 268 |
| 3,7,11,15- Tetramethyl- 6,10,14- hexadecatrien-1-ol | - | _ | _ | 30% | _ | 292 |
| 3,7,11,15- Tetramethyl- 2,6,10,14- hexadecatetraen- 1-ol | - | 2% | - | _ | 13% | 290 |
| | | | | | | 1 |

Key Facts About SpringerImages – search (II)

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- Source publication
- _ Image type
- _ Journal
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- Access availability, and more.
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- Trial (new customers only)
 - 60 days duration
 - With consent to market directly to end users during trial
 - Usage statistics available after trial

TIME FOR QUESTIONS!

ADDITIONAL SLIDES

Competitor Overview

| Publisher | Product | Protocols | Annual Content Increase | Update Frequency | First Year |
|--------------------------|--|-----------|----------------------------|---------------------|------------|
| Wiley | Current Protocols | 10,566 | 500-700 | Quarterly | 1987 |
| Nature | Nature Protocols nature protocols Recipes for Researchers | 1050 | 225 | Monthly | 2006 |
| Cold Spring Harbor | CSH Protocols | 1400 | 250 | Monthly | 2006 |
| Springer | Springer Protocols Springer Protocols | 18,740 | 2,000 | Continuously | 1980 |

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Elsevierimages.com

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•Significant software products especially in the fields of Biomedicine and Medicine are rarely at the market, too, e.g. 3D anatomy software of Primal Pictures

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