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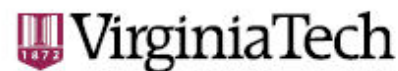
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Lecture Notes in Mathematics, 1979

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The 1-2-3 of Modular Forms
Lectures at a Summer School in Nordfjordeid, Norway
Jan Hendrik Bruinier, Gerard van der Geer, Günter Harder and Don Zagier
Universitext, 2008

- 3. 图书
1-Dimensional Cohen-Macaulay Rings
Eben Matlis
Lecture Notes in Mathematics, 1973

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10 Jahre EU-Mitgliedschaft Österreichs
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Remco Duits, Michael Felsberg, Luc Florack and Bram Platel

Lecture Notes in Computer Science, Scale Space Methods in Computer Vision PDF (304.5 KB)

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 χ^2 Cryptanalysis of the SEAL Encryption Algorithm

Helena Handschuh and Henri Gilbert

Lecture Notes in Computer Science, Fast Software Encryption: 4th International Workshop, FSE'97, Haifa, Israel, January 1997. Proceedings PDF (265.4 KB)

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Greg Reeve and Steve Reeves

Lecture Notes in Computer Science, Integrated Formal Methods: Second International Conference, IFM 2000, Dagstuhl Castle, Germany, November 2000. Proceedings

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10th International Conference on Automated Deduction

Kaiserslautern, FRG, July 24 - 27, 1990 Proceedings

Lecture Notes in Computer Science, 1990

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111 Thesen zur erfolgreichen Softwareentwicklung

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Rainer Gerlich and Ralf Gerlich

Xpert.press, 2005

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Paolo Favaro and Stefano Soatto

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Zhen Wen and Thomas Huang

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3D Imaging for Safety and Security

Computational Imaging and Vision, 2007

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3D Structure from Images — SMILE 2000

Second European Workshop on 3D Structure from Multiple Images of Large-Scale Environments Dublin, Ireland, July 1 - 2, 2000 Revised Papers

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Sandeep Bala

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Precision **physics** at LEP

G. Montagna, O. Nicrosini and F. Piccinini

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Proceedings of the Symposium Held at the University of Bonn, July 1 - 4, 1975

Lecture Notes in Mathematics, 1977

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Stochastic p -adic equations of mathematical **physics**

A. Kh. Bikulov

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Report on the 1st Indian National **Physics** Olympiad and the 29th International **Physics** Olympiad

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Claudine Hermann
2005

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10.1007/978-0-387-73507-8_9
R. Edward Hendrick

Breast MRI protocols can be divided into image acquisition protocols and image post-processing protocols. Image acquisition protocols should be designed to collect all necessary diagnostic data while minimizing patient scan time. This chapter is devoted to a detailed discussion of image acquisition protocols. Image post-processing protocols are described in Chapter 10.

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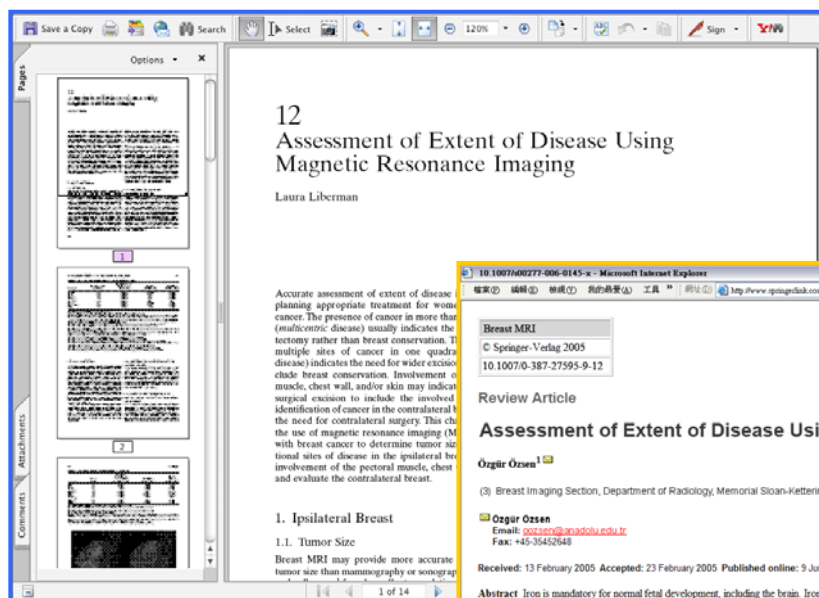
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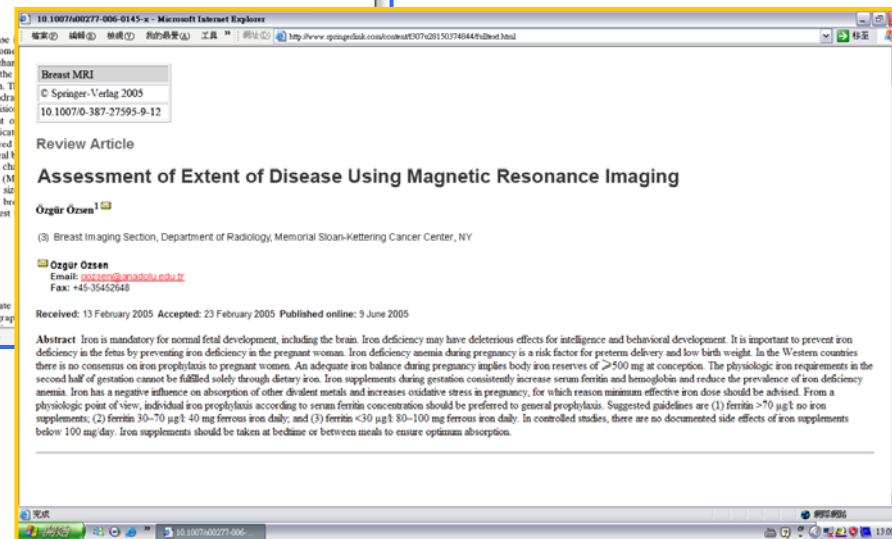
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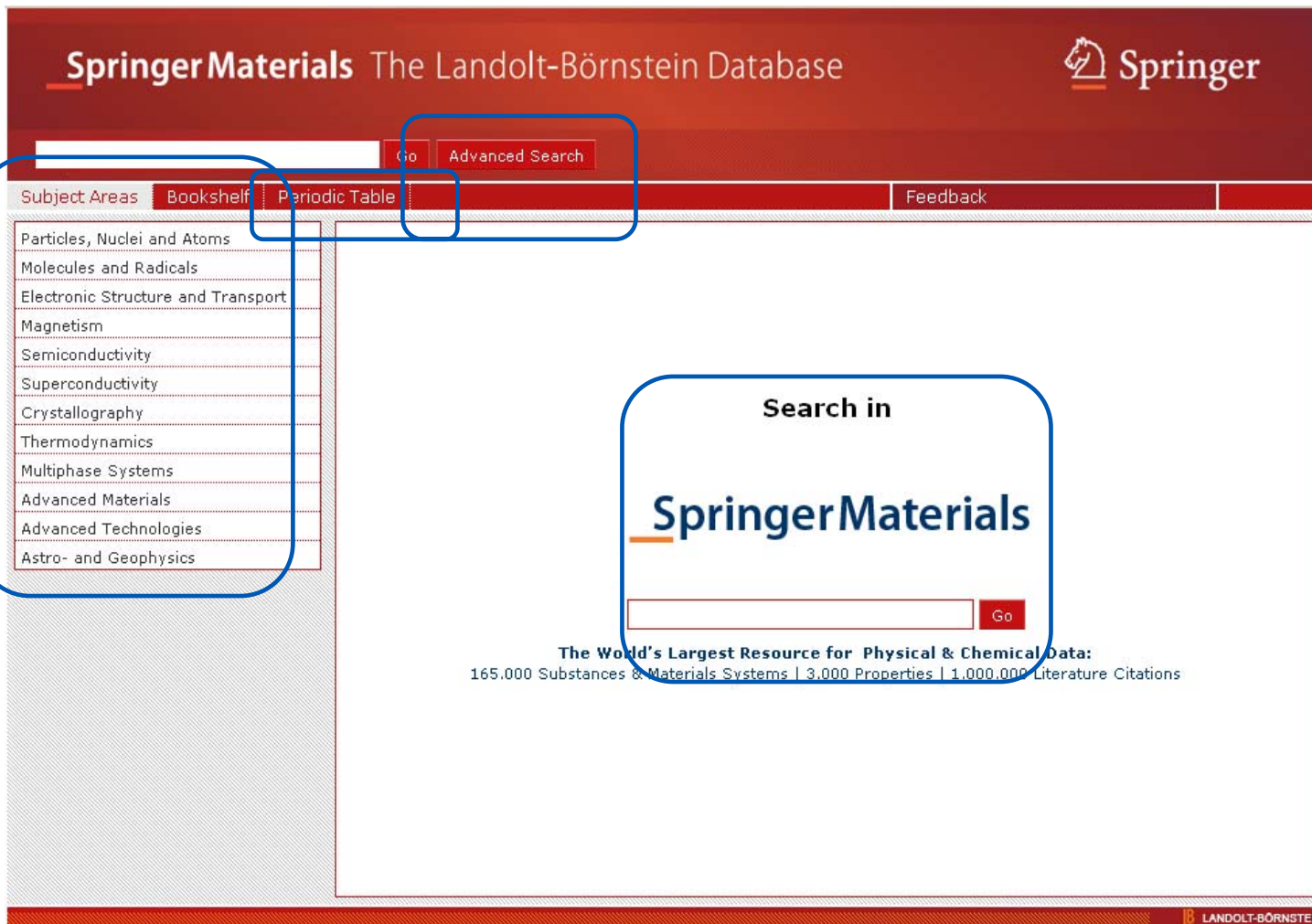


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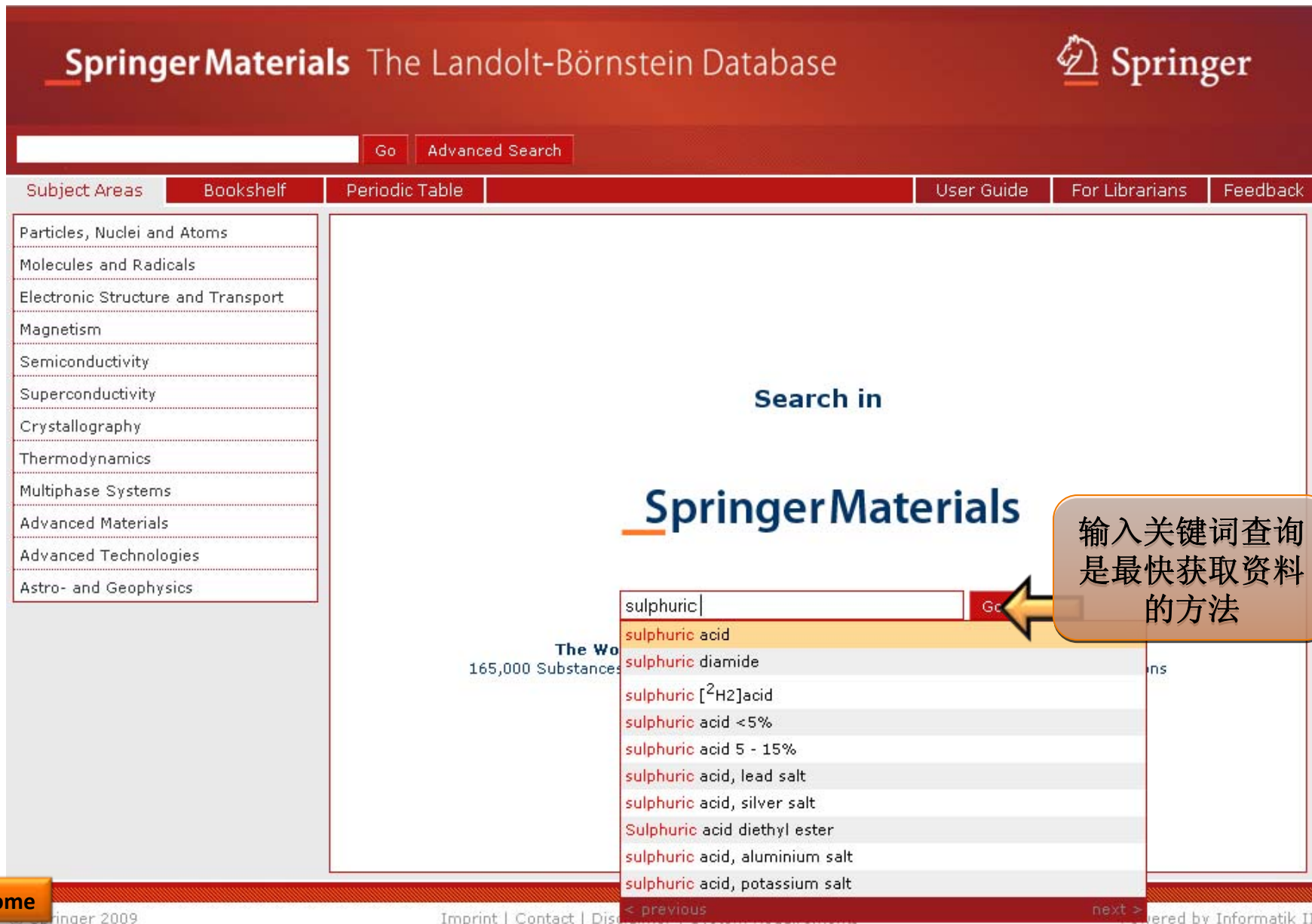
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Metadata - Substance: urea ... butyl urea ... **Metadata - Property:** vapor pressure ... **Metadata - CAS Registry Number:** 57-13-6 ... **Metadata - Molecular Formula:** CH4N2O ... **Fulltext:** Compounds 2 Tabulated Data on **Vapor Pressure** of Oxygen Containing Organic ... 6485-89-8 l-g 122 CH4N2O Urea 57-13-6 cr-g 123 CH4N4O2 ...

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Organic Compounds, C1---C3  

Metadata - Substance: urea ... Urea, thio- ... urea, ethyl- ... **Metadata - CAS Registry Number:** 57-13-6 ... **Metadata - Molecular Formula:** CH4N2O ... **Fulltext:** 49-sta/gup 49-sta/gup Urea [57-13-6] CH4N2O MW = 60.06 cr cr Urea ... ± 0.13 ns ns ns ns ns ns ns ns ns ns ns **vapor pressure** isoperibol isoperibol DSC adiabatic **vapor pressure** DSC DSC adiabatic **vapor pressure** 50-sek/mom 67-tse 67-tse/god ...

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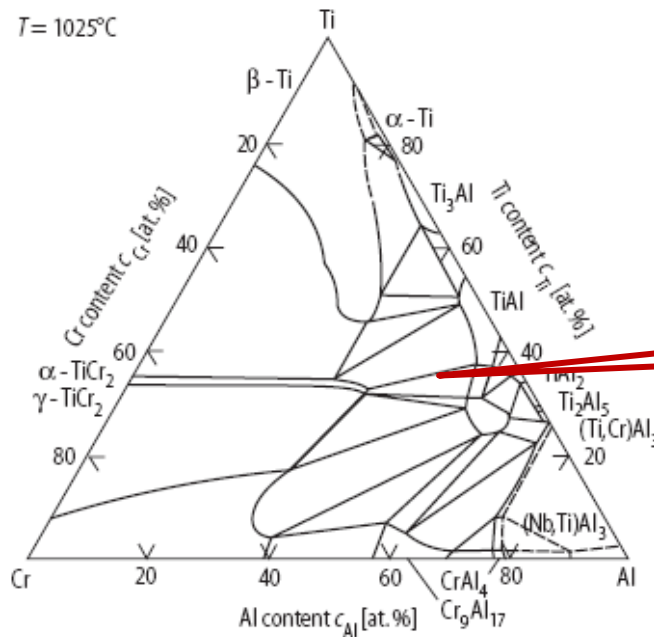
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 - 14.4.2.1 Phase diagrams
 - 14.4.2.2 Ti(3)Al-base alloys
 - 14.4.2.3 TiAl-base alloys
 - 14.4.3 Iron aluminides
 - 14.4.4 Nickel aluminides
 - 14.4.5 Silicides
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T = 1025°C



图像

Fig. 14.4. Isothermal section of the Ti-Al-Cr phase diagram at 1025 °C [97P1] - see also [97X1, 98H3].

正文

14.4.2.2 Ti₃Al-base alloys

14.4.2.2.1 Compositions and applications

Various Ti₃Al-base alloys have been developed which contain niobium as major alloying element and further elements for obtaining an optimised balance of strength, deformability, toughness and oxidation resistance. The alloys are two-phase or three-phase and contain additional phases besides the phase Ti₃Al, which is known as the α_2 phase. The usual additional phases are the β phase, which is Ti-rich and which has the b.c.c. structure or is ordered with B2 structure, the orthorhombic ω phase with B12 structure, and/or the ω -type phase Ti₄Al₃Nb with B8₂ structure [92B1, 95B]. In addition, some alloys have been used as matrices for intermetallic matrix composites, which rely primarily on the SiC fibre SCS-6 [92L]. Current Ti₃Al-base alloys with engineering significance are listed in Table 6.

表格

Table 6. Important Ti₃Al-base alloys [92B1, 95B].

Type	Alloy [at.%]	Designation	Phases
α_2	Ti-24Al-11Nb	24-11	$\alpha_2 + \beta$
α_2	Ti-25Al-11Nb	25-11	$\alpha_2 + \beta$

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European regulations regarding benzene (C₆H₆)




Name benzene **Formula:** C₆H₆
CAS-RN 71-43-2 **Molecular Weight:** 78.112 g/mol
EG-Index: 601-020-00-8 (2004/73/EC)
EINECS: 200-753-7 (EINECS2)

Hazard Information (Dangerous Substances Directive 67/548/EEC)

Hazard symbols	 	2004/73/EC
R-Phrase	T Toxic F Highly flammable 45-46-11-36/38-48/23/24/25-65 R45 May cause cancer. R46 May cause heritable genetic damage. R11 Highly Flammable. R36/38 Irritating to eyes and skin. R48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R65 Harmful: may cause lung damage if swallowed.	2004/73/EC
S-Phrase	S3-45 S53 Avoid exposure - obtain special instructions before use. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).	2004/73/EC

GHS classification (Globally Harmonized System)

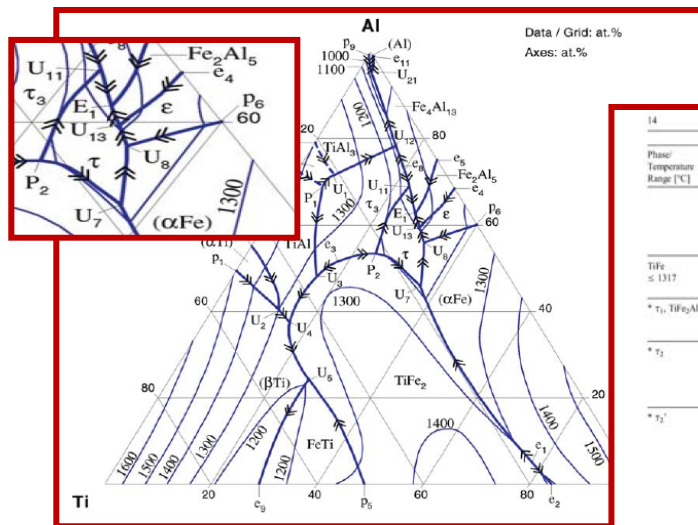
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Phase/ Temperature Range [°C]	Pearson Symbol/ Space Group/ Prototype	Lattice Parameters [pm]	Comments/References
		$a = 496.61$ $c = 806.28$	[2006Yin], $Ti_{13}Fe_{21}Al_{13}$ annealed at 1000°C
		$a = 503.66$ $c = 819.71$	[2000Yin], as-cast $Ti_{13}Fe_{21}Al_{13}$
TiFe ≤ 1317	$cP2$ $Fm\bar{3}m$ GdCl	$a = 297.6$	solid solubility ranges from 49.8 to 51.8 at.% Ti [V-C]
* τ_1 , $TiFe_2Al$	$cF16$ $Fm\bar{3}m$ Cu_2AlMn	$a = 587.9$	[1983Bis], annealed at 900°C for 14 days
* τ_2	cF^* $F43m$	$a = 1211.0$ $a = 1209.59$	[1999Pdl], at $Ti_{13}Fe_{21}Al_{13}$ [2006Gry], $Ti_{13}Fe_{21}Al_{13}$ annealed at 900°C, both X-ray and neutron diffraction data
* τ_2'	$cF16$ $Fm\bar{3}m$ Th_3Mn_{13}	$a = 1199.0$ $a = 1182.0$ $a = 1203.8$ $a = 1207.6$	[1967Mac, 2000Mab] [1981So] [1999Pdl], at $Ti_{13}Fe_{21}Al_{13}$ [1999Gcr], at $Ti_{13}Fe_{21}Al_{13}$ [1999Lev], at $Ti_{13}Fe_{21}Al_{13}$ [2003Gry], at $Ti_{13}Fe_{21}Al_{13}$
	filled Th_3Mn_{13}	$a = 1209.2$	[2003Gry], at $Ti_{13}Fe_{21}Al_{13}$
	filled Th_3Mn_{13}	$a = 1199.44$	[2006Gry], $Ti_{13}Fe_{21}Al_{13}$ annealed at 900°C, neutron diffraction data

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287	C.M.	1894-95	Carbon	214-224 B
14	5.5238	1894-95	-42.89	214-224 B
14	6.0271	1894-95	-48.15	284-63
14	6.0271	1894-95	-48.15	433-568
	(2.364-6)	(48-2)	(-7.5246)	407-568 A-B
288	C.M.	2,2,2,2-Tetrahydrofuran		
09	6.0159	1892-8	-48.89	252-275
14	1.962	1878-1	-28.65	372-608
289	C.M.	2,2,2-Trifluoroethane		
14	1.9623	1899-9	-49.79	374-602
14	1.9623	1899-9	-49.79	408-563
	(2.434-6)	(182-4)	(-10.552)	
290	C.M.	2,2,2-Trifluoroethane		
14	1.9715	1847-8	-48.89	380-272
14	1.9704	1871-8	-48.35	372-316
14	1.9696	1871-8	-48.35	372-316
	(2.132-6)	(2.3902)	388-553	408-563 A-B
291	C.M.	2,2,2-Trifluoroethane		
14	1.9623	1899-9	-49.89	377-602
14	1.9623	1899-9	-49.89	408-573
	(2.379-6)	(2.81)		
292	C.M.	2,2,2-Trifluoroethane		
14	6.0772	1907-8	-48.97	382-288 B
14	1.977	1814-15	-51.86	388-602
14	1.977	1814-15	-51.86	408-568
	(2.397-6)	(88-6)	(-6.4875)	408-568 A-B
293	C.M.	Diene (2E-methyl)		
14	1.9463	1746-22	-22.275	397-617
294	C.M.	Diene		
14	6.11226	1877-21	-28.828	375-465
14	1.9463	1746-22	-22.275	397-618
295	C.M.	2-Methylpropane		
14	6.7702	1824-36	-42.128	393-381
297	C.M.	2-Methylpropane		
14	6.39518	1882-94	-58.938	314-442

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1.3.2 Empirical Vapor Pressure Equations

During the past century many empirical mathematical functions have been used to relate vapor pressure to temperature; many are modifications of Eq. (1.7). These functions have several parameters that are characteristics of the compound. Careful self-experiments done usually by measuring the ratio of the squares of the deviations between the calculated and observed pressures or temperatures (least squares method), provide these parameters. The first and most widely used of these equations is the Antoine equation [1881-94; 48-64]. The original form is,

$$\log P = A - \frac{B}{C + T} \quad (1.9)$$

where $P = A - B(C + T)^{-1}$ is used instead of the base-10 logarithm or Celsius temperature is used instead of Fahrenheit. When $C = 0$ (the T is kelvins) Eq. (1.9) is identical to Eq. (1.7). The Thermodynamic Properties of Matter: Thermophysical Tables - Hydrocarbons [24-63] and Hydrocarbons [1881-94] contain an extended version of the Antoine equation:

$$\log P = A - \frac{B}{C + T} - \frac{D}{(C + T)^2} - \frac{E}{(C + T)^3} \quad (1.10)$$

where A, B, C and T are additional adjustable parameters. T_c is the critical temperature, T_b the lower boundary temperature and $T_m = T_c - T_b/T_c$. Examples of functions obtained by adding terms to Eq. (1.7) are the polynomial in temperature used in the International Critical Tables [24-63]:

$$\ln P = a_0 + a_1 T + a_2 T^2 + a_3 T^3 \quad (1.11)$$

the Chabrier polynomial [70-molten]:

$$\ln P = a_0 + \sum_{i=1}^n \frac{a_i}{T^i} + \frac{a_{n+1}}{T^{n+1}} \quad (1.12)$$

in which $E_i(T)$ is a Chabrier polynomial in T of degree i ; (the advantage of this is that the E_i functions are orthogonal), the Karickhoff-Rindler equation [48-64],

$$\ln P = A + B T^C + C \ln T \quad (1.13)$$

(same form as Eq. (1.6)); the Pitzer-Edwards equation [48-64]:

$$\ln P = A - B T^C - C \ln T - D T^E \quad (1.14)$$

and the Pitzer-Salem equation [31-64]:

$$\ln P = A + B T^C + C \ln T + D T^E \quad (1.15)$$

Another popular type of function is the Cox equation [16-64]:

$$\ln (P/P^*) = A + B/T \quad (1.16)$$

where A is a function of temperature often taken to be

$$\ln A = a_0 + a_1 T + a_2 T^2$$

Wagner and colleagues [73-mol, 77-mol, and 86-mol-1] have proposed a series of related equations. The simplest is

$$\ln (P/P^*) = (A + B T^2 + C T^3 + D T^4) / T \quad (1.17)$$

where $A = 1 - P^*/T_c$, T_c is the critical pressure and T_c is the critical temperature. One of the variations [76-mol-1] is

$$\ln (P/P^*) = (A + B T^2 + C T^3 + D T^4 + E T^5) / T \quad (1.18)$$

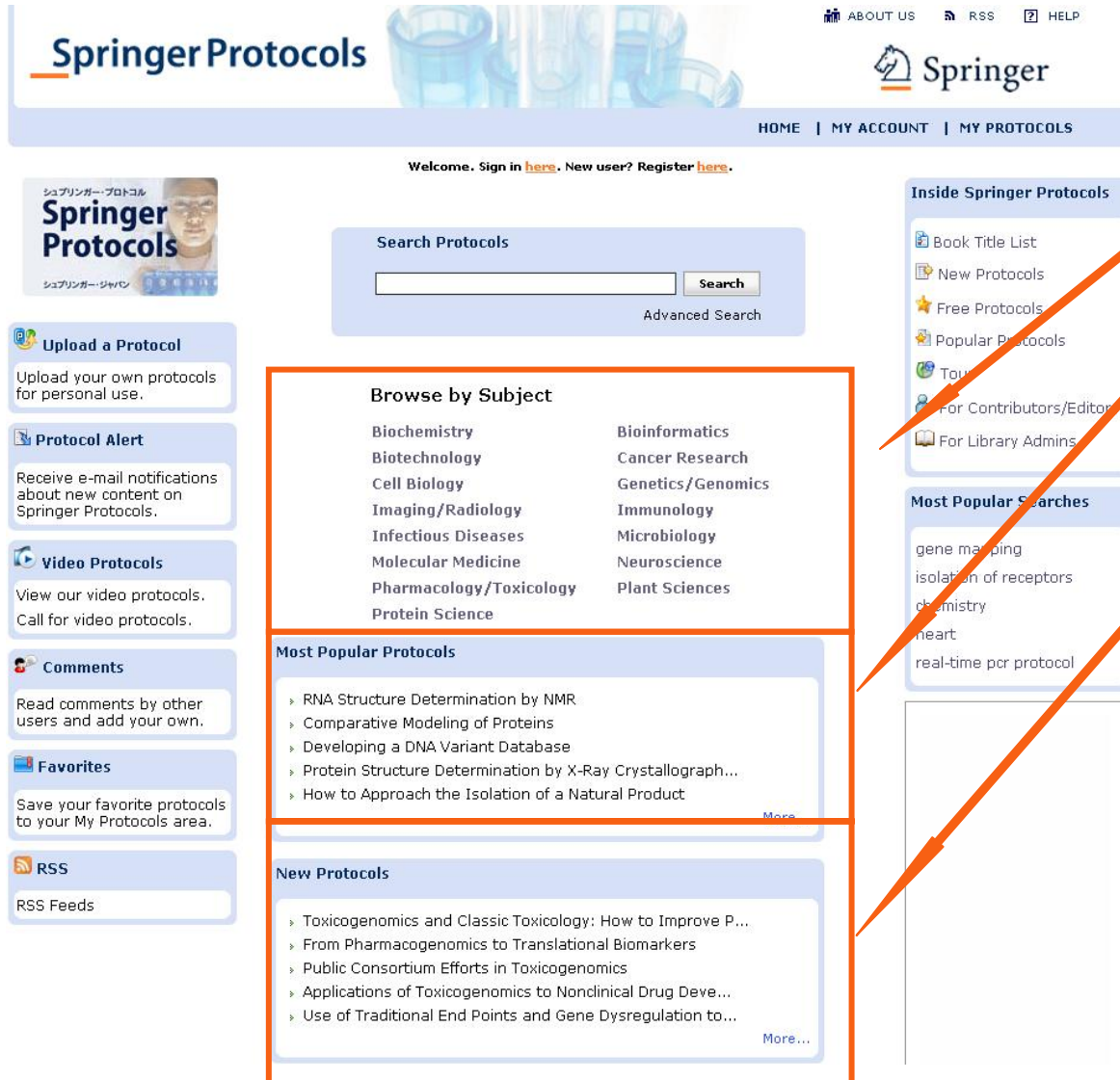
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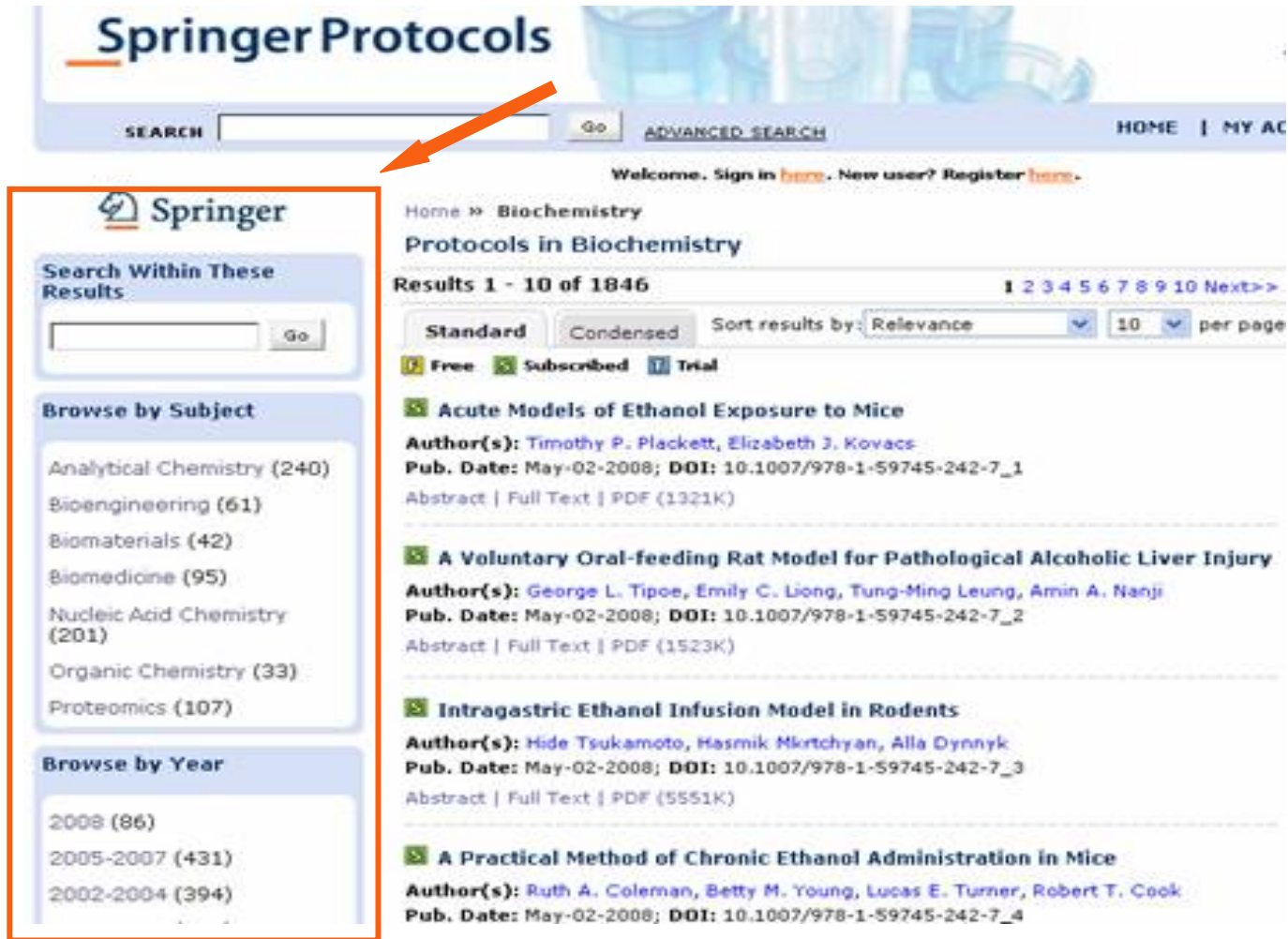
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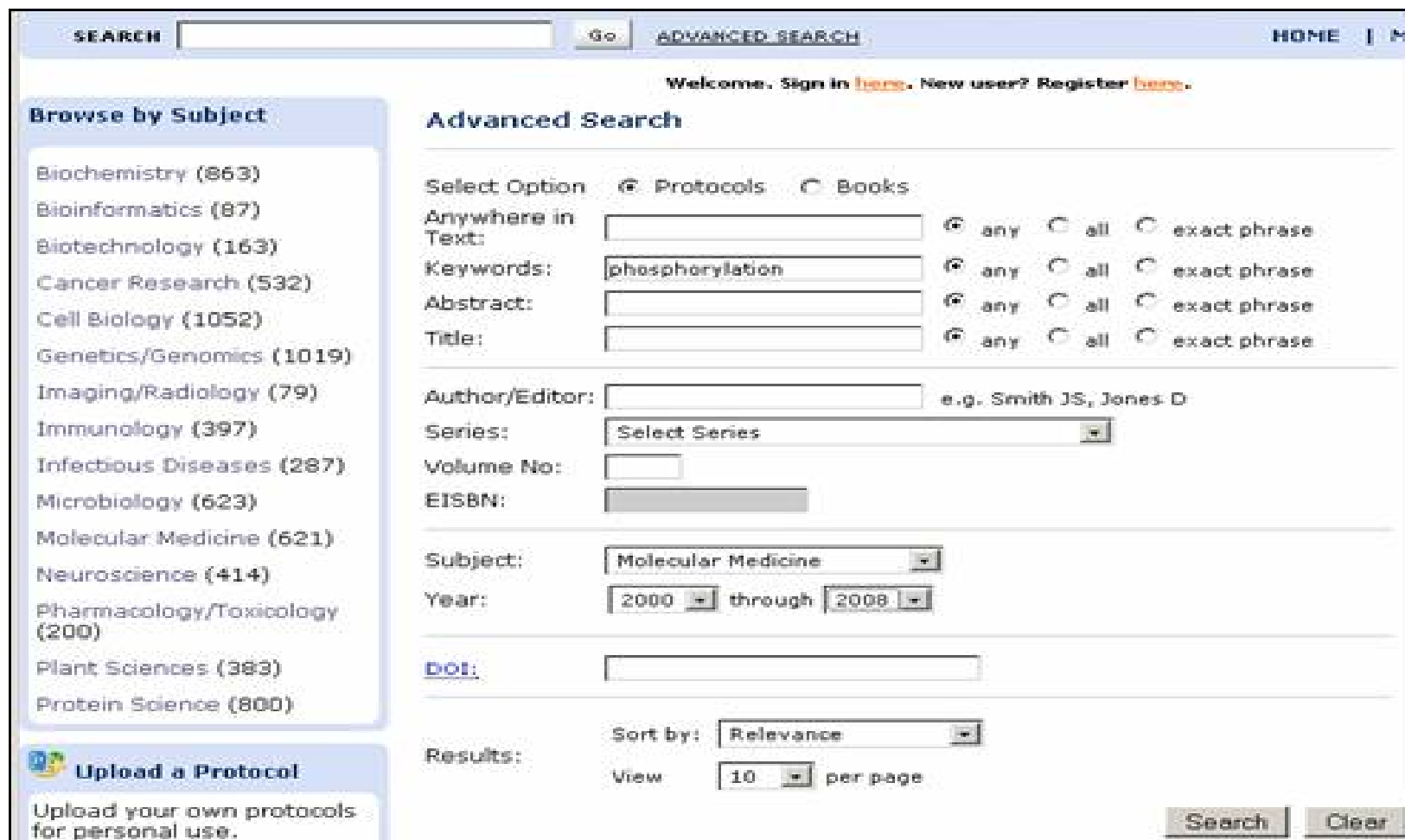
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The screenshot displays the 'Advanced Search' page on the SpringerProtocols website. At the top, there is a search bar with a 'Go' button and a link to 'ADVANCED SEARCH'. The page includes a navigation menu with 'HOME' and 'M'. A welcome message is present: 'Welcome. Sign in [here](#). New user? Register [here](#).' The main search area is titled 'Advanced Search' and features a 'Select Option' section with radio buttons for 'Protocols' (selected) and 'Books'. Below this are four search criteria: 'Anywhere in Text:', 'Keywords:', 'Abstract:', and 'Title:'. Each criterion has a text input field and three radio button options: 'any' (selected), 'all', and 'exact phrase'. The 'Keywords' field contains the text 'phosphorylation'. Other search fields include 'Author/Editor:' (with an example 'e.g. Smith JS, Jones D'), 'Series:' (a dropdown menu set to 'Select Series'), 'Volume No:', 'EISBN:', 'Subject:' (a dropdown menu set to 'Molecular Medicine'), and 'Year:' (two dropdown menus set to '2000' and '2008'). There is also a 'DOI:' field. At the bottom, there are 'Results:' options for 'Sort by:' (a dropdown menu set to 'Relevance') and 'View' (a dropdown menu set to '10' per page). The page concludes with 'Search' and 'Clear' buttons. On the left side, there is a 'Browse by Subject' sidebar listing various scientific fields with their respective document counts, such as 'Biochemistry (863)', 'Cell Biology (1052)', and 'Genetics/Genomics (1019)'. At the bottom left, there is an 'Upload a Protocol' section with a brief instruction: 'Upload your own protocols for personal use.'

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Laser Microdissection Sample Preparation for RNA Analyses

By: Christopher J. Vega² 

Affiliation(s): (2) Leica Microsystems, Bannockburn, IL







Book Title: [Apoptosis and Cancer: Methods and Protocols](#)

Series: Methods in Molecular Biology | **Volume:** 414 | **Pub. Date:** Oct-11-2007 | **Page Range:** 241-252 | **DOI:** 10.1007/978-1-60327-321-1_17

Gene expression analysis provides an insight into the biomolecular characteristics of a given cell type. However, compositions hinder gene analysis studies from most microdissection (LMD) technique allows for the unambiguous cell population. However, preserving RNA integrity can be the deliberately limited amount of starting material, so cell. General laboratory procedures for reducing ribonucleases in reagents and in the laboratory environment, are required downstream RNA isolation and quantitation. Quality RNA sections made from flash-frozen and paraffin-embedded histological stains such as hematoxylin and eosin (H&E) provide visualization of the cells of interest. Following integrity should precede downstream analysis.

Key Words: [Laser microdissection](#) - [laser capture microdissection](#) - [RNA](#) - [sample preparation](#) - [RNase](#)

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摘要

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independently of their surrounding. That is, the unique expression profile of a cell will not be obscured by expression levels contributed from neighboring cells. Neighboring cells are not without value as they can be captured separately to perform sensitive studies, for example, expression variations in cancerous tissue versus normal tissue.

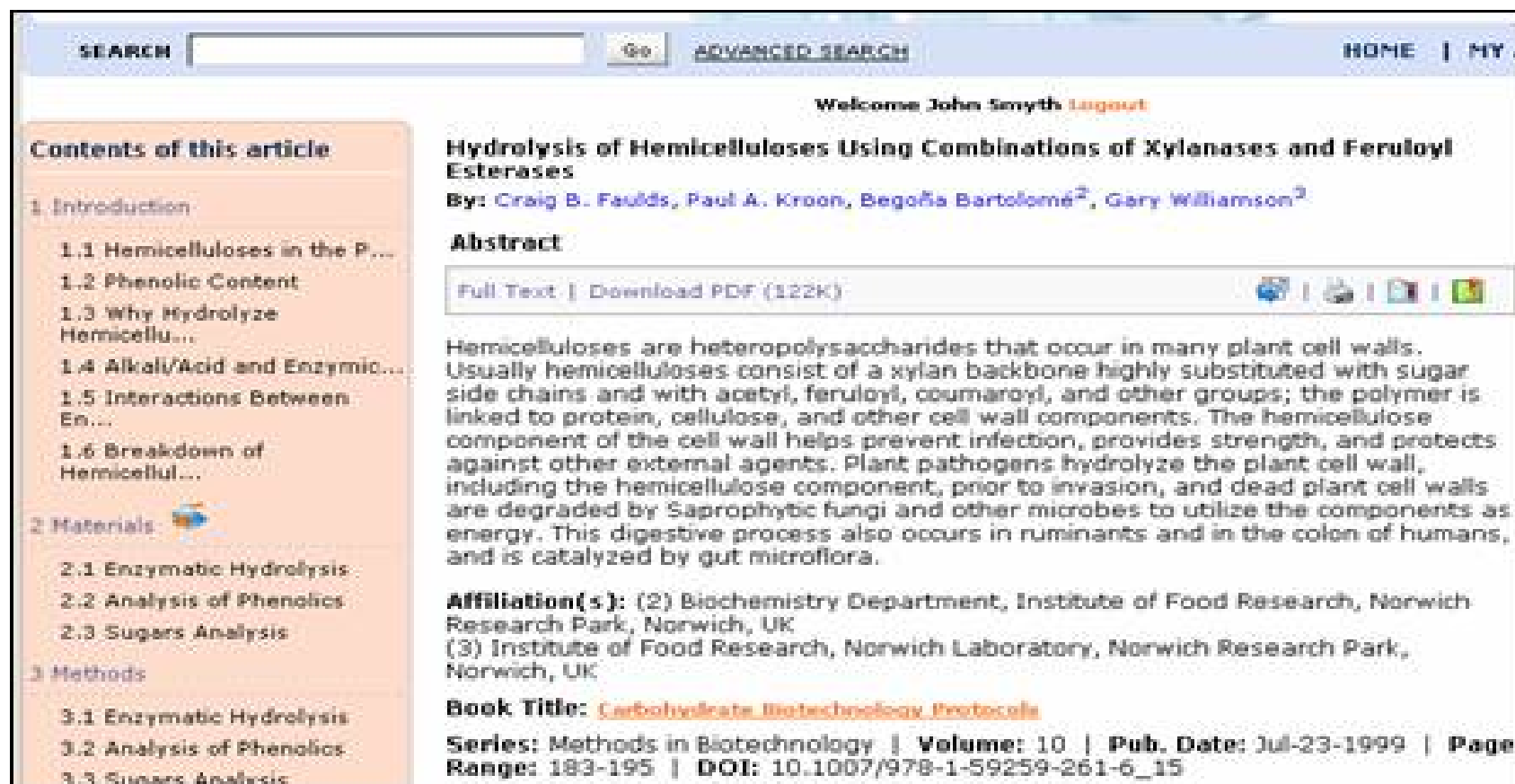
Suppressing Ribonuclease Activity

When preparing samples, to protect RNA from degradation, is paramount to the success of RNA isolation for gene expression analyses. The ribonuclease (RNase) family of enzymes catalyzes the cleavage of nucleotides in RNA leading to degradation. Unfortunately, RNases are ubiquitous. The ubiquitous nature of these molecules makes working with RNA for the purpose of isolating RNA, a challenging endeavor.

Reducing the effects of RNases within solutions and upon laboratory equipment are essential. Bearing this in mind, RNases will not be eliminated:

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The screenshot shows a Springer article page with a search bar at the top. The article title is "Hydrolysis of Hemicelluloses Using Combinations of Xylanases and Feruloyl Esterases". The authors are Craig B. Faulds, Paul A. Kroon, Begoña Bartolomé², and Gary Williamson². The abstract describes hemicelluloses as heteropolysaccharides in plant cell walls. The page includes a table of contents on the left, a full text link, and a download PDF button (122K). The affiliation is the Biochemistry Department at the Institute of Food Research, Norwich, UK. The book title is "Carbohydrate Biotechnology Protocols", series "Methods in Biotechnology", volume 10, published July 23, 1999, pages 183-195. The DOI is 10.1007/978-1-59259-261-6_15.

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Hydrolysis of Hemicelluloses Using Combinations of Xylanases and Feruloyl Esterases

By: Craig B. Faulds, Paul A. Kroon, Begoña Bartolomé², Gary Williamson²

Abstract

Full Text | Download PDF (122K) 

Hemicelluloses are heteropolysaccharides that occur in many plant cell walls. Usually hemicelluloses consist of a xylan backbone highly substituted with sugar side chains and with acetyl, feruloyl, coumaroyl, and other groups; the polymer is linked to protein, cellulose, and other cell wall components. The hemicellulose component of the cell wall helps prevent infection, provides strength, and protects against other external agents. Plant pathogens hydrolyze the plant cell wall, including the hemicellulose component, prior to invasion, and dead plant cell walls are degraded by Saprophytic fungi and other microbes to utilize the components as energy. This digestive process also occurs in ruminants and in the colon of humans, and is catalyzed by gut microflora.

Affiliation(s): (2) Biochemistry Department, Institute of Food Research, Norwich Research Park, Norwich, UK
(3) Institute of Food Research, Norwich Laboratory, Norwich Research Park, Norwich, UK

Book Title: [Carbohydrate Biotechnology Protocols](#)

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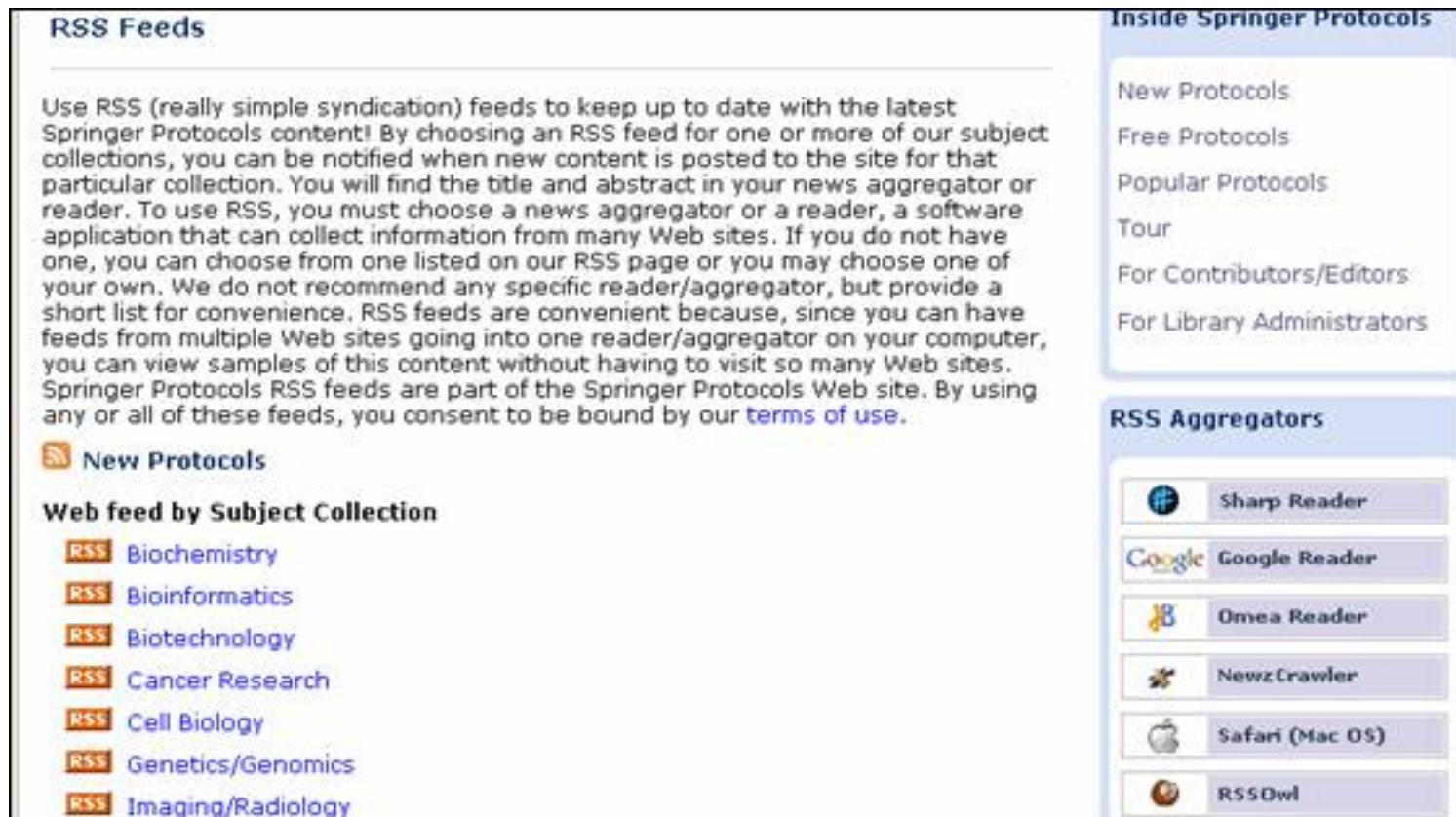
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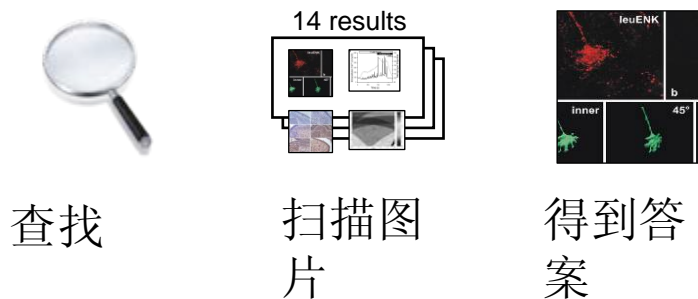
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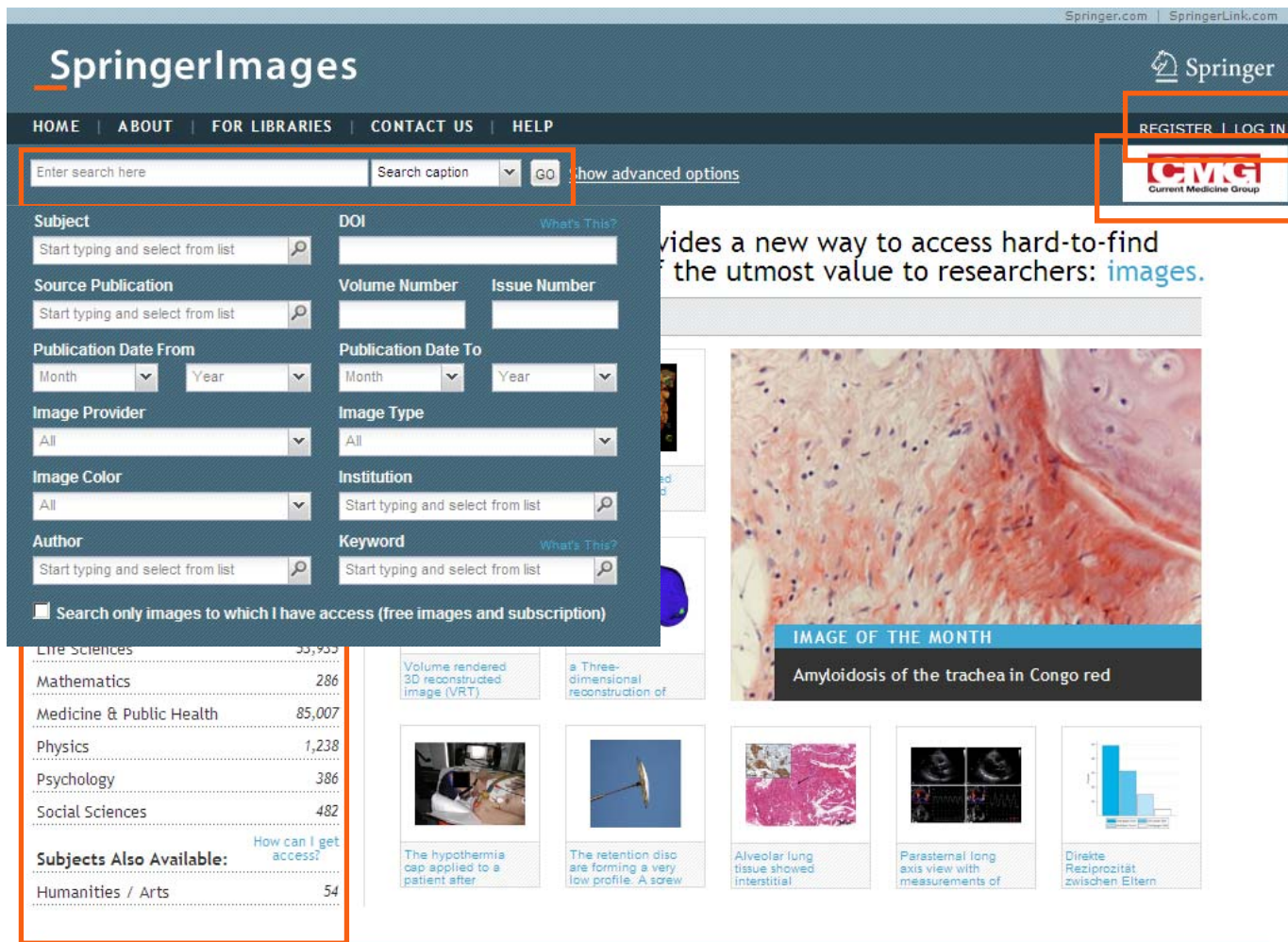


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Medicine & Public Health	85,007
Physics	1,238
Psychology	386
Social Sciences	482
Humanities / Arts	54

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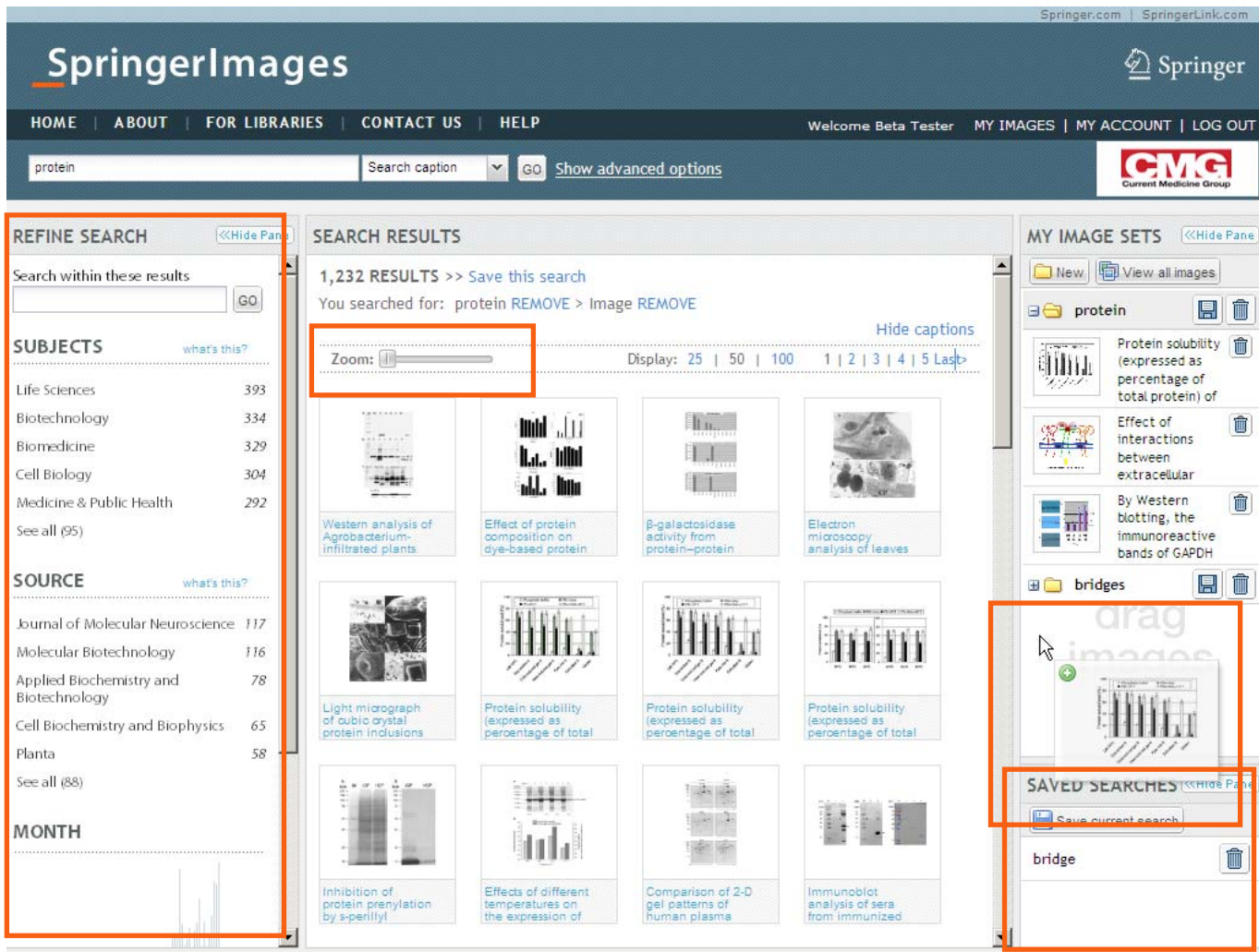
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The screenshot shows the SpringerImages search results page for the keyword "protein". The page is divided into several sections:

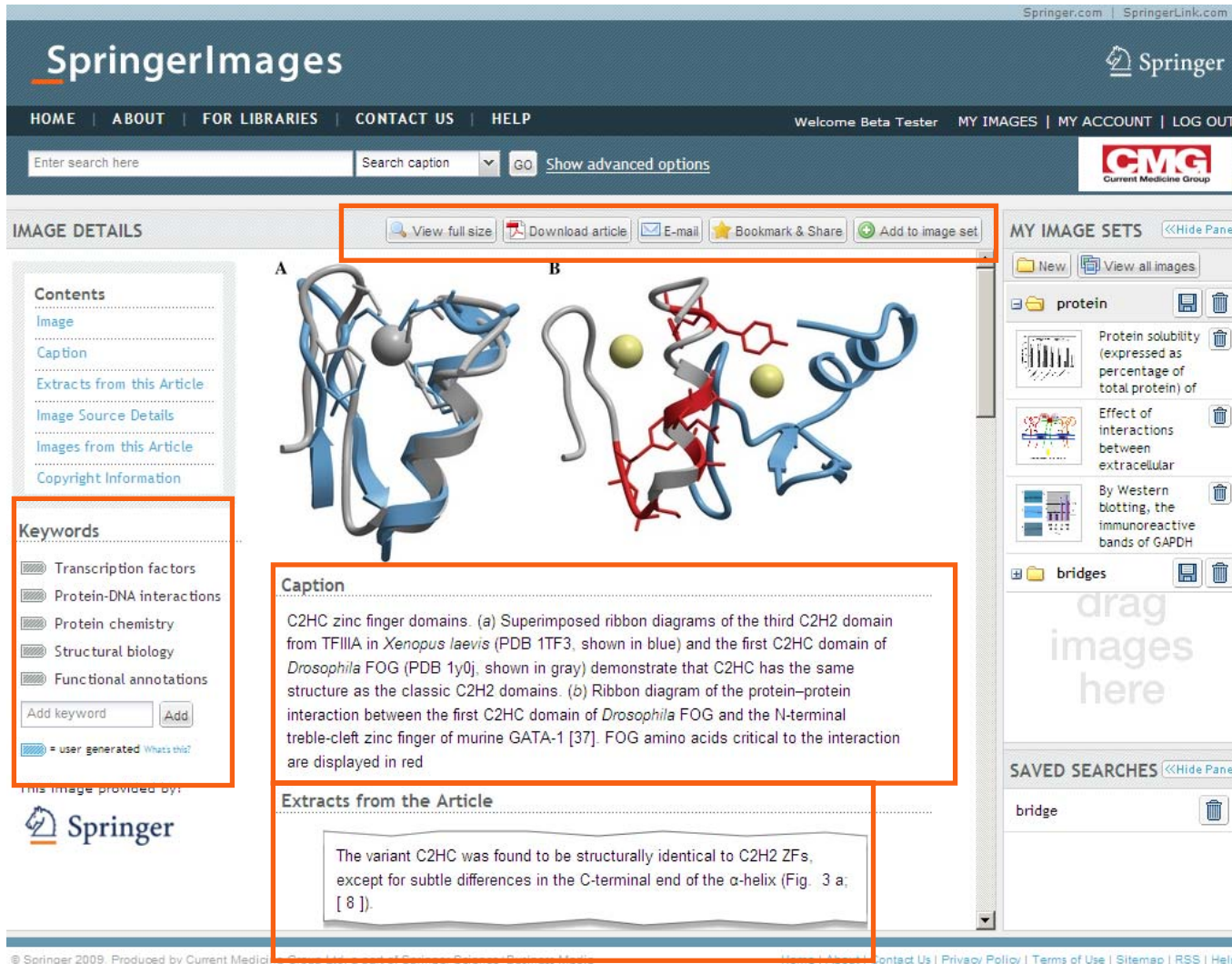
- REFINE SEARCH:** A sidebar on the left with a search box and a "GO" button. Below it are sections for "SUBJECTS" (Life Sciences: 393, Biotechnology: 334, Biomedicine: 329, Cell Biology: 304, Medicine & Public Health: 292) and "SOURCE" (Journal of Molecular Neuroscience: 117, Molecular Biotechnology: 116, Applied Biochemistry and Biotechnology: 78, Cell Biochemistry and Biophysics: 65, Planta: 58).
- SEARCH RESULTS:** The main area showing "1,232 RESULTS". It includes a "Zoom" slider (highlighted with a red box), a "Display" menu (25, 50, 100), and a grid of 16 image thumbnails. Each thumbnail has a caption, such as "Western analysis of Agrobacterium-infiltrated plants" and "Effect of protein composition on dye-based protein".
- MY IMAGE SETS:** A sidebar on the right showing "protein" and "bridges" as image sets. It includes a "drag images" button (highlighted with a red box) and a "SAVED SEARCHES" section with a "Save current search" button (highlighted with a red box).

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Image A and B: Superimposed ribbon diagrams of protein domains. (a) shows the third C2H2 domain of TFIIIA in *Xenopus laevis* (blue) and the first C2HC domain of *Drosophila* FOG (gray). (b) shows the ribbon diagram of the protein-protein interaction between the first C2HC domain of *Drosophila* FOG and the N-terminal treble-cleft zinc finger of murine GATA-1. FOG amino acids critical to the interaction are displayed in red.

Caption

C2HC zinc finger domains. (a) Superimposed ribbon diagrams of the third C2H2 domain from TFIIIA in *Xenopus laevis* (PDB 1TF3, shown in blue) and the first C2HC domain of *Drosophila* FOG (PDB 1y0j, shown in gray) demonstrate that C2HC has the same structure as the classic C2H2 domains. (b) Ribbon diagram of the protein-protein interaction between the first C2HC domain of *Drosophila* FOG and the N-terminal treble-cleft zinc finger of murine GATA-1 [37]. FOG amino acids critical to the interaction are displayed in red

Extracts from the Article

The variant C2HC was found to be structurally identical to C2H2 ZFs, except for subtle differences in the C-terminal end of the α -helix (Fig. 3 a; [8]).

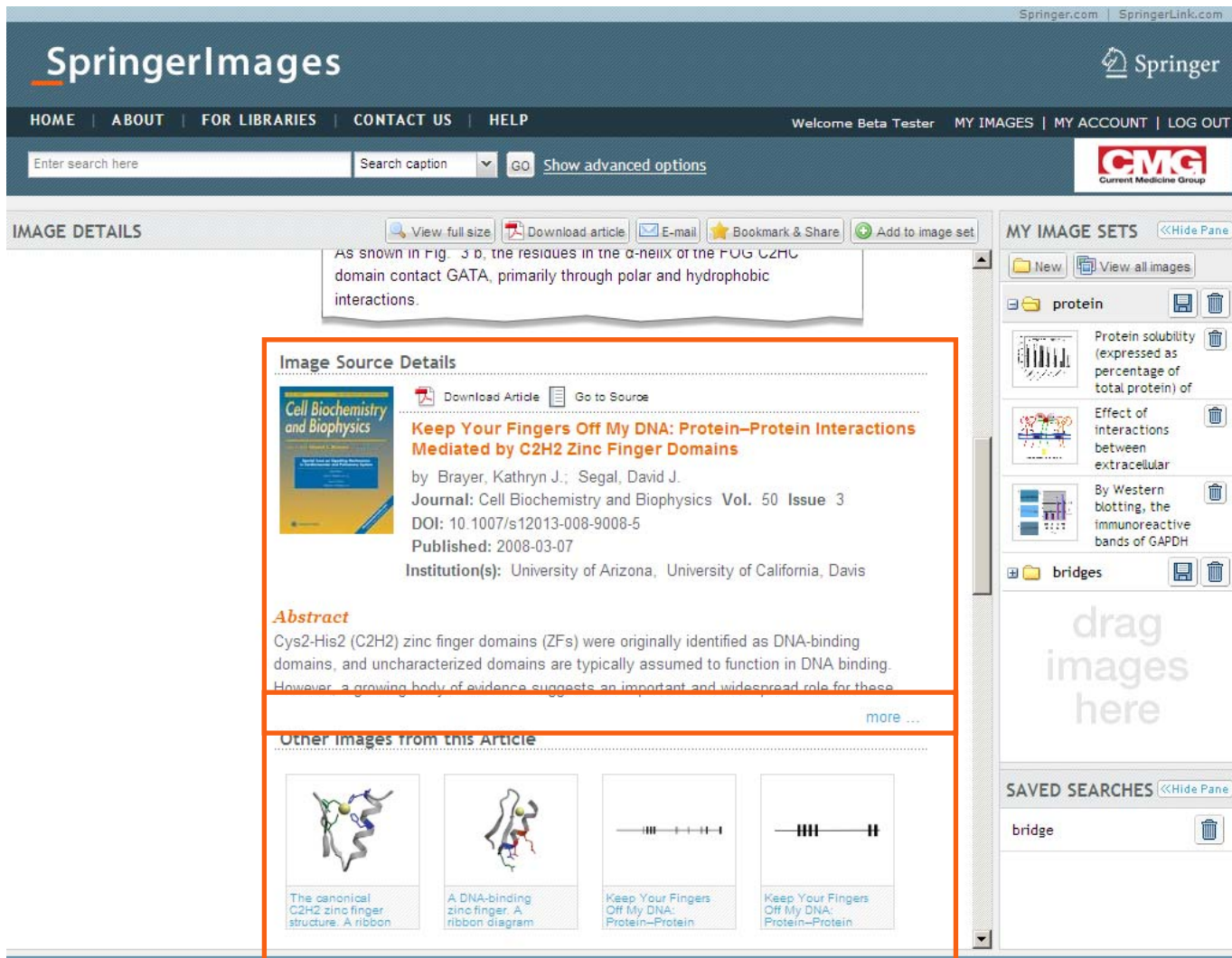
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As shown in Fig. 3 d, the residues in the α -helix of the FOG C2HC domain contact GATA, primarily through polar and hydrophobic interactions.

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Keep Your Fingers Off My DNA: Protein-Protein Interactions Mediated by C2H2 Zinc Finger Domains

by Brayer, Kathryn J.; Segal, David J.

Journal: Cell Biochemistry and Biophysics Vol. 50 Issue 3
DOI: 10.1007/s12013-008-9008-5
Published: 2008-03-07
Institution(s): University of Arizona, University of California, Davis

Abstract

Cys2-His2 (C2H2) zinc finger domains (ZFs) were originally identified as DNA-binding domains, and uncharacterized domains are typically assumed to function in DNA binding. However, a growing body of evidence suggests an important and widespread role for these

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Other Images from this Article

- The canonical C2H2 zinc finger structure. A ribbon
- A DNA-binding zinc finger. A ribbon diagram
- Keep Your Fingers Off My DNA: Protein-Protein
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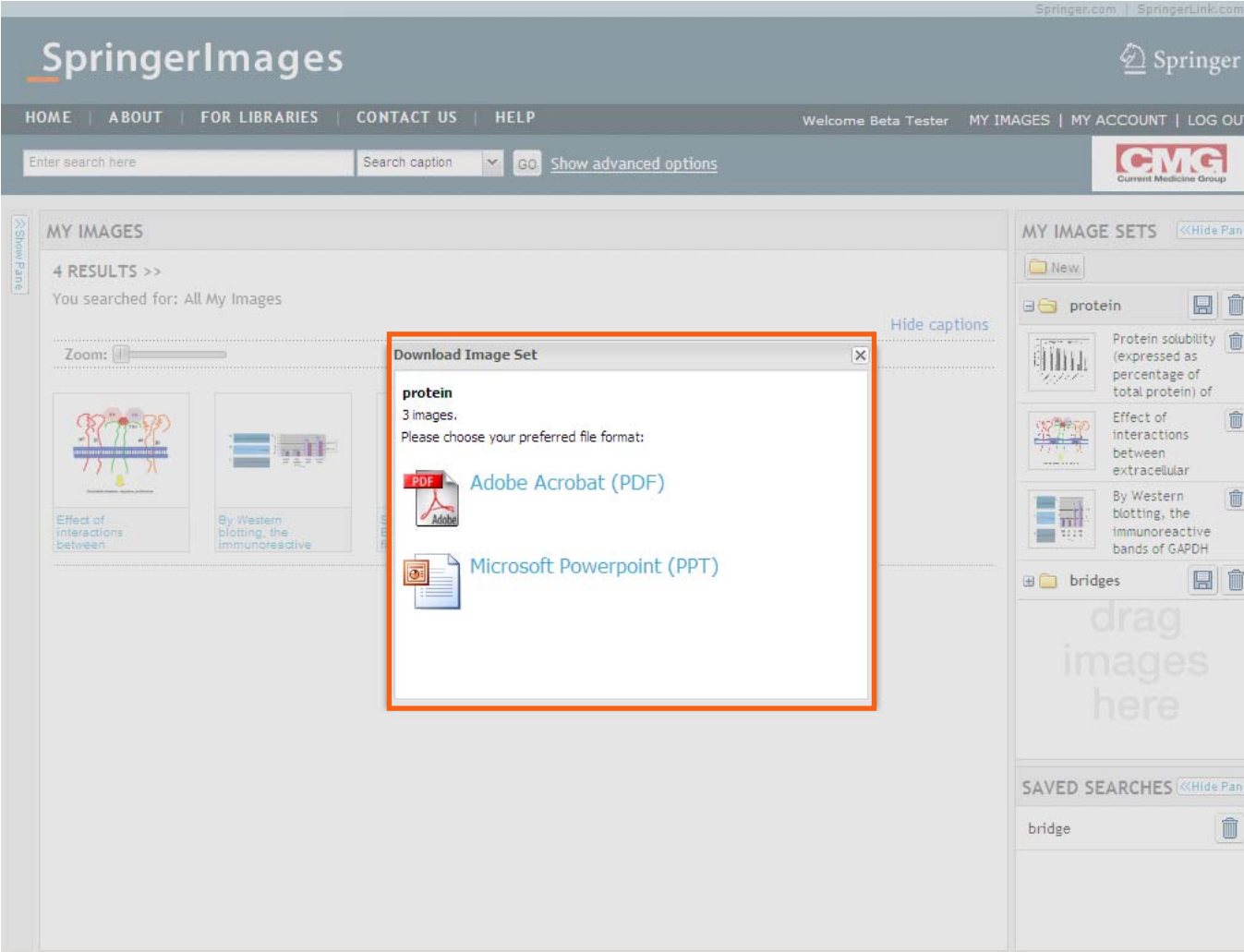
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