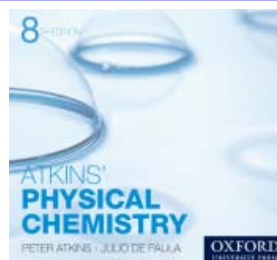


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Crystal lattices

20.1 Lattices and unit cells

20.2 The identification of lattice planes

20.3 The investigation of structure

» **Living Graph** Electron densities from X-ray diffraction

I20.1 IMPACT ON BIOCHEMISTRY: X-ray crystallography of biological macromolecules

20.4 Neutron and electron diffraction

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The properties of solids

20.8 Mechanical properties

20.9 Electrical properties

» **Living Graph** The Fermi-Dirac distribution

I20.2 IMPACT ON NANOSCIENCE: Nanowires

20.10 Optical properties

Section 20.2 Go to page: Go to chapter

20.2 The identification of lattice planes (1/2)

The spacing of the planes of lattice points in a crystal is an important quantitative aspect of its structure. However, there are many different sets of planes (Fig. 20.9), and we need to be able to label them. Two-dimensional lattices are easier to visualize than three-dimensional lattices, so we shall introduce the concepts involved by referring to two dimensions initially, and then extend the conclusions by analogy to three dimensions.

Fig. 20.9 Some of the planes that can be drawn through the points of a rectangular space lattice and their corresponding Miller indices (hkl): (a) (110), (b) (230), (c) (110), and (d) (010).

(a) The Miller indices

Consider a two-dimensional rectangular lattice formed from a unit cell of sides a , b (as in Fig. 20.9). Each plane in the illustration (except the plane passing through the origin) can be distinguished by the distances at which it intersects the a and b axes. One way to label each set of parallel planes would therefore be to quote the smallest intersection distances. For example, we could denote the four sets in the illustration as $(1a, 1b)$, $(\frac{1}{2}a, \frac{1}{3}b)$, $(-1a, 1b)$, and $(\infty a, 1b)$. However, if we agree to quote distances along the axes as multiples of the lengths of the unit cell, then we can label the planes more simply as $(1, 1)$, $(\frac{1}{2}, \frac{1}{3})$, $(-1, 1)$, and $(\infty, 1)$. If the lattice in Fig. 20.9 is the top view of a three-dimensional orthorhombic lattice in which the unit cell has a length c in the z -direction, all four sets of planes intersect the z -axis at infinity. Therefore, the full labels are $(1, 1, \infty)$, $(\frac{1}{2}, \frac{1}{3}, \infty)$, $(-1, 1, \infty)$, and $(\infty, 1, \infty)$.

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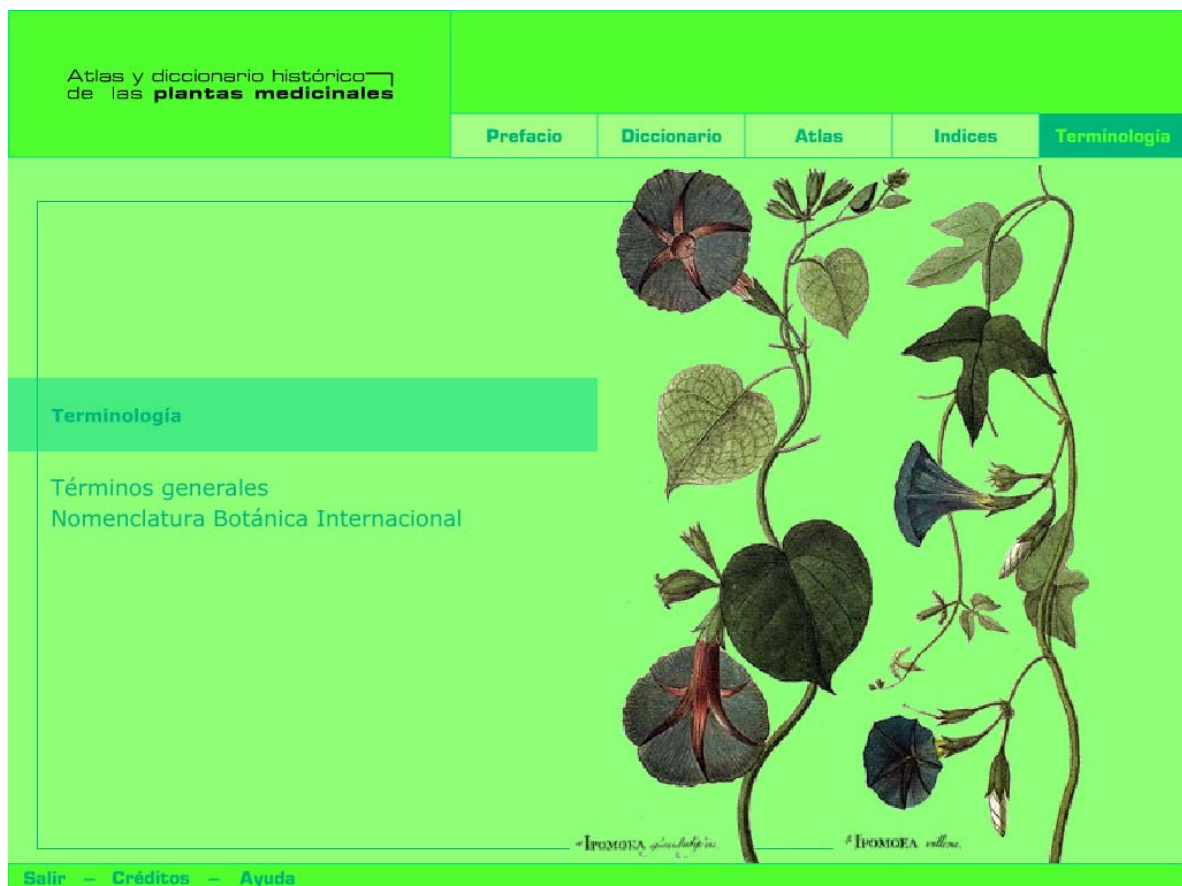
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Atkins, P. W. Atkins' physical chemistry. 8th ed. [Oxford] : Oxford University Press, 2006.

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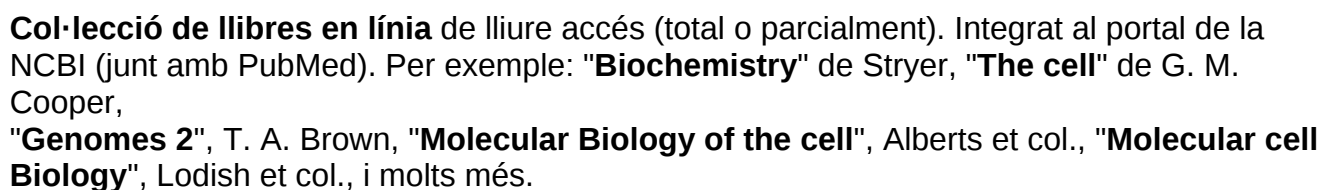
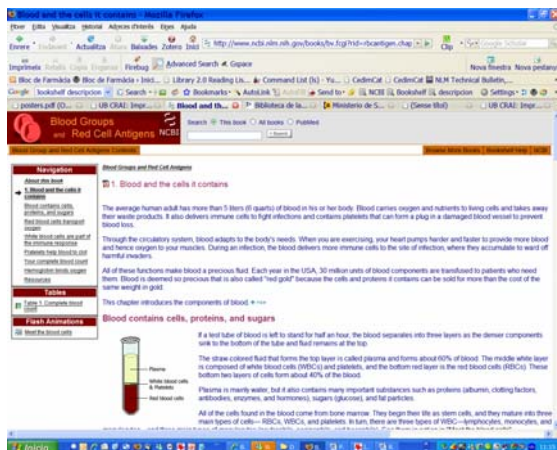
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López Piñero JM. Atlas y diccionario histórico de las plantas medicinales. Valencia: Faximil Edicions Digitals; 2005.

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Schrank J. Brave new foods: the biotech revolution. Lake Zurich: Learning Seed; 2002.

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British pharmacopoeia. London: The Stationary Office; 2000-.

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3.03 Pharmacogenomics

K. Lindpaintner^a
^aF. Hoffman-La Roche, Basel, Switzerland

Available online 2 April 2007.

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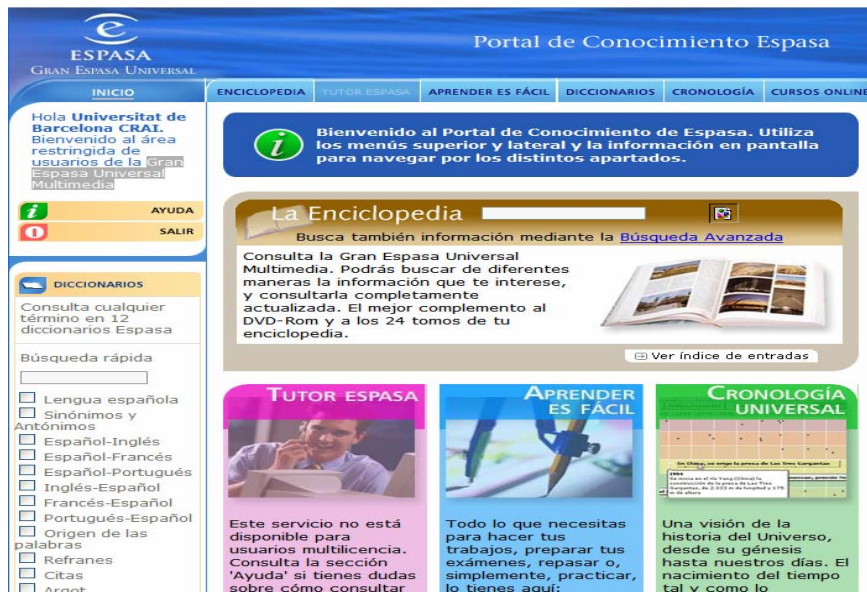
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Taylor JB, Triggle DJ. Comprehensive medicinal chemistry II. Elsevier; 2007.

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European pharmacopoeia online. Strasbourg: Council of Europe; 2004-.

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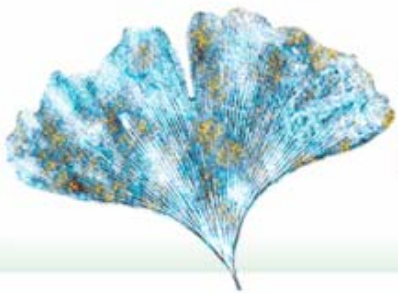
Fitoterapia.net

The screenshot shows the homepage of the Fitoterapia.net website. At the top, there are several banners for products like Nervikán, Bioforce, A.Vogel, and Exodren y Tealine. Below these is the website's logo and a search bar with options for 'Buscador terapéutico' and 'Buscador general'. A navigation menu includes links for Inicio, Vademecum, Documentación, Revista, Publicaciones, Agenda, Enlaces, and Noticias. A registration form is present with fields for 'Usuario' and 'Clave', and a 'Recordar contraseña' checkbox. The main content area features a large image of a blue, textured leaf. To its right, a text block describes the portal's purpose: 'Es un portal dirigido a los profesionales de la salud interesados en los usos terapéuticos de los productos de origen vegetal. Nuestro objetivo es ofrecer una herramienta práctica, que contribuya a racionalizar y modernizar la Fitoterapia, ajustándose a los requisitos básicos de seguridad, calidad y eficacia. [+Info]'. Below this, there are two main sections: 'Revista de Fitoterapia' and 'Vademecum de Fitoterapia'. The 'Revista de Fitoterapia' section highlights 'Volumen 7 (2), Noviembre 2007' and lists topics such as a clinical study on gel de árnica, applications of omic technologies, and the use of Allium sativum. The 'Vademecum de Fitoterapia' section features 'Arándano americano' (Vaccinium macrocarpon Ait.) with a toxicity level of three green squares. It also mentions the extended medicinal use of the juice for urinary infections. At the bottom, there is an 'Agenda' section with a link to the 'Reseña del 4º Congreso de la Sociedad Española de Fitoterapia (SEFIT)'. A small image of a yellow flower is also visible in the bottom left corner of the main content area.

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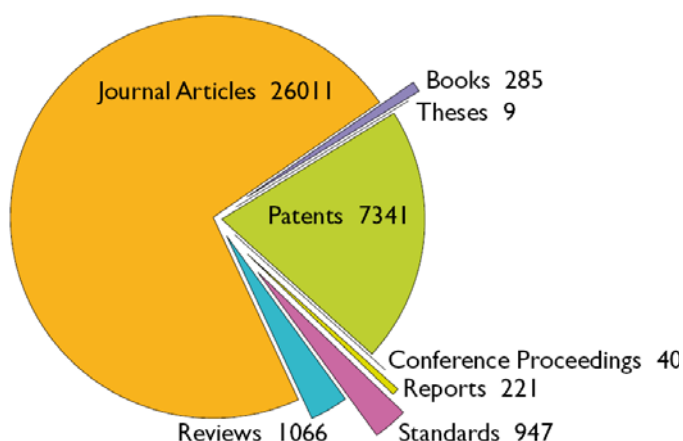
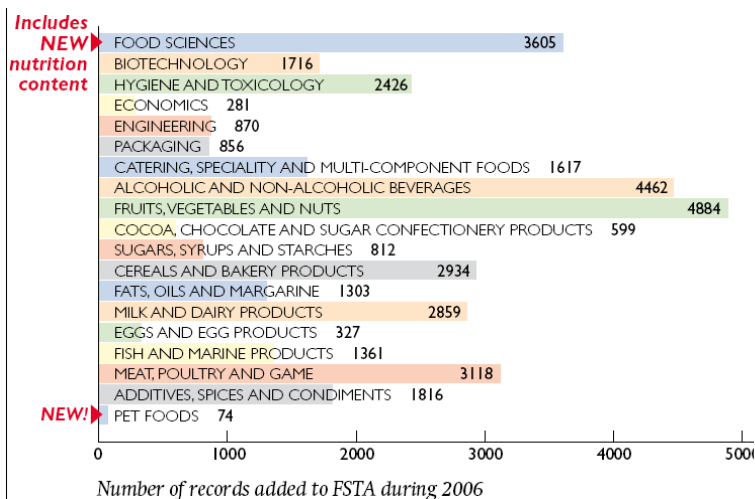
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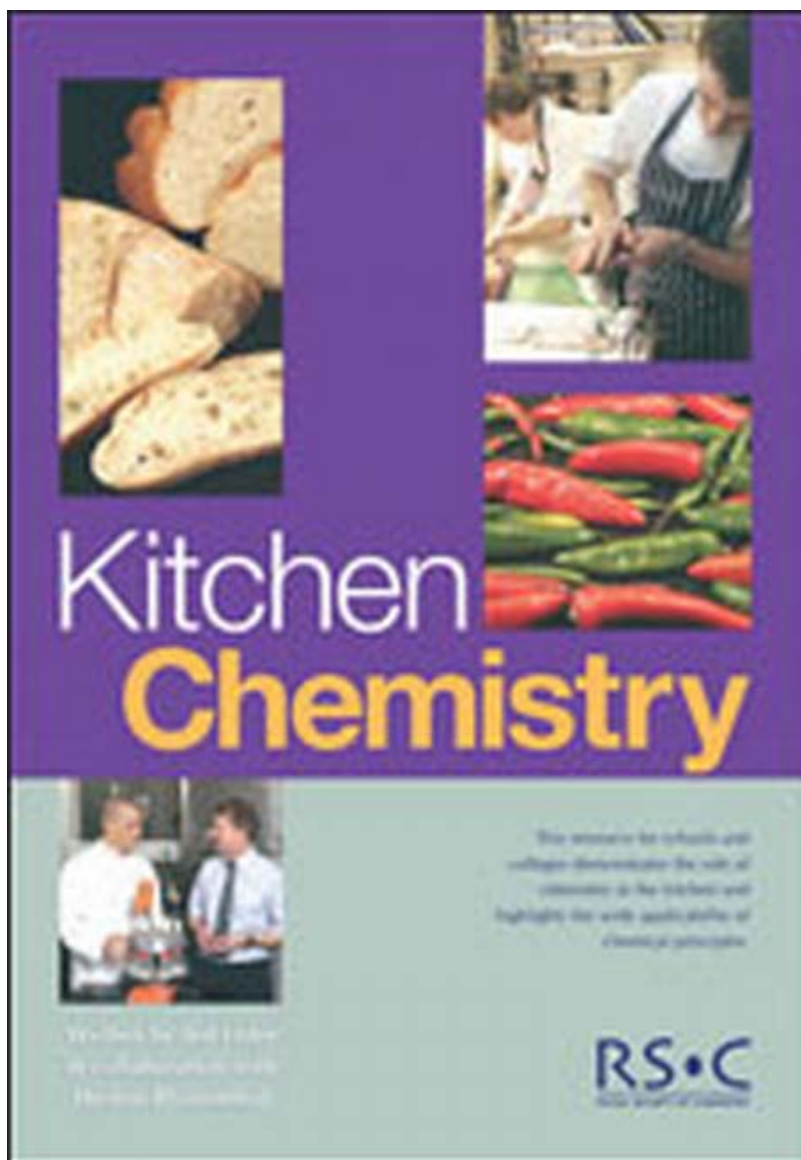
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Harrison's online. New York: McGraw-Hill; 1999-. Actualitzat freqüentment.

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Kitchen chemistry

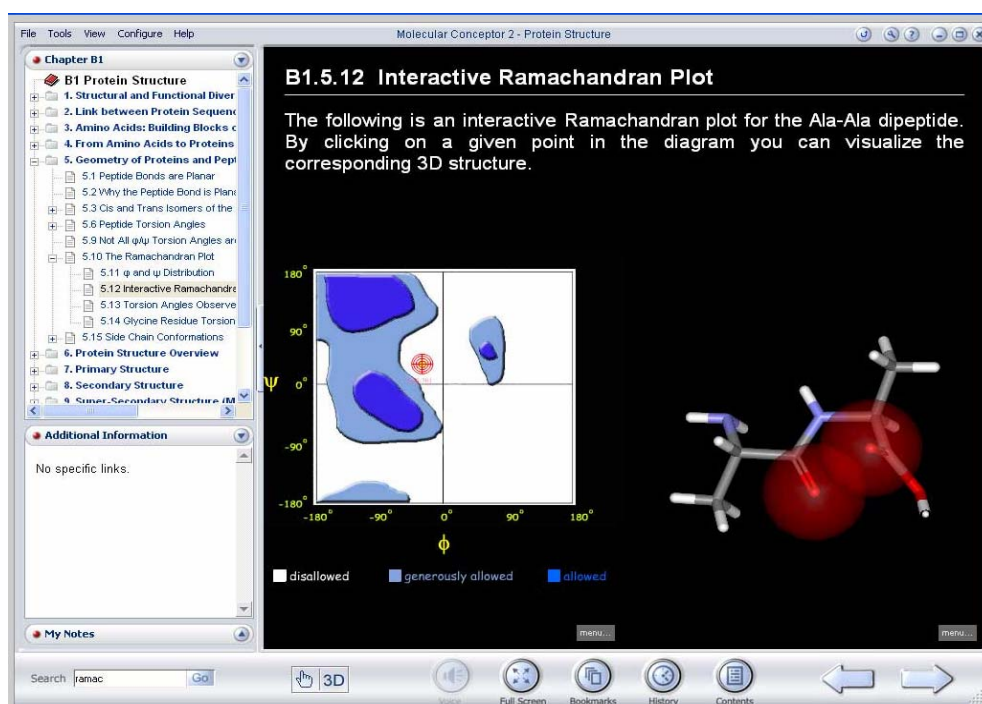


CD-ROM d'acompanyament del llibre del mateix títol. Aquesta obra fa més accessible la química perquè reuneix la teoria científica i la pràctica diària. Després de tot, tots nosaltres sabem alguna cosa sobre cuinar, tot i que podem no fer-ho molt sovint, i els nens no són pas diferents.

Lister T. Kitchen chemistry. London: Royal Society of Chemistry; 2005.

Signatura: 30 CD 641 Lis

Molecular conceptor 2 : medical chemistry & drug design courseware



Curs multimèdia de models moleculars i disseny de fàrmacs.

Molecular conceptor 2: medical chemistry & drug design courseware. Jerusalem: Synergix; 2005.

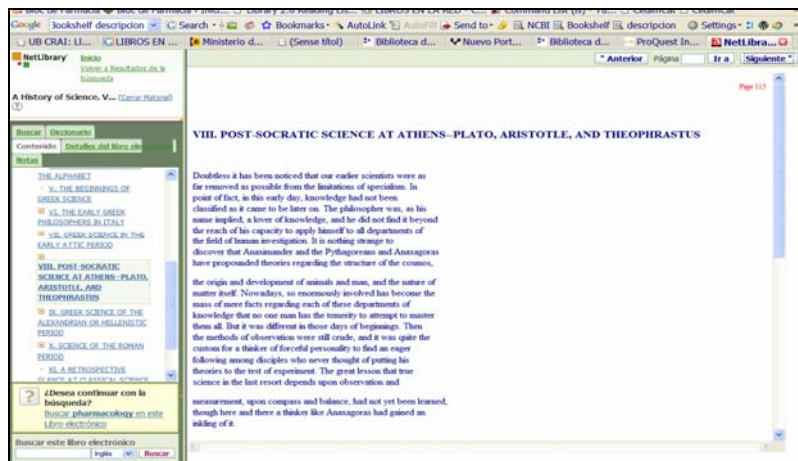
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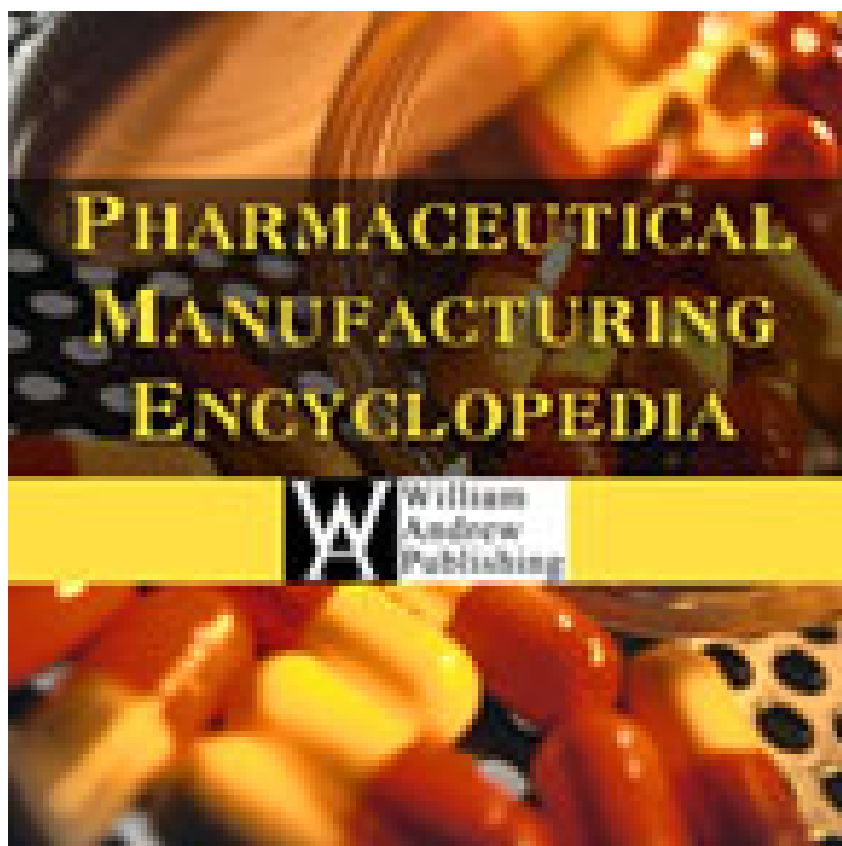


A History of Science, Volume 1, by Henry Smith Williams



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Pharmaceutical Manufacturing Encyclopedia



Enciclopèdia electrònica amb especificacions per a la fabricació de 2226 productes farmacèutics comercialitzats com a especialitats farmacèutiques arreu del món. Cada entrada conté la funció terapèutica, el nom químic i el nom comú, la fórmula estructural, el número CAS, el nom de la marca, el fabricant, el país i l'any en que es va començar a comercialitzar i el procés de fabricació. Només és consultable des de l'ordinador S6 a la biblioteca.

Pharmaceutical manufacturing encyclopedia. Norwich: Andrew; 2006.

Signatura: 30 CD 615.011(03) Pha

Pharmaceutical Substances: syntheses, patents, applications

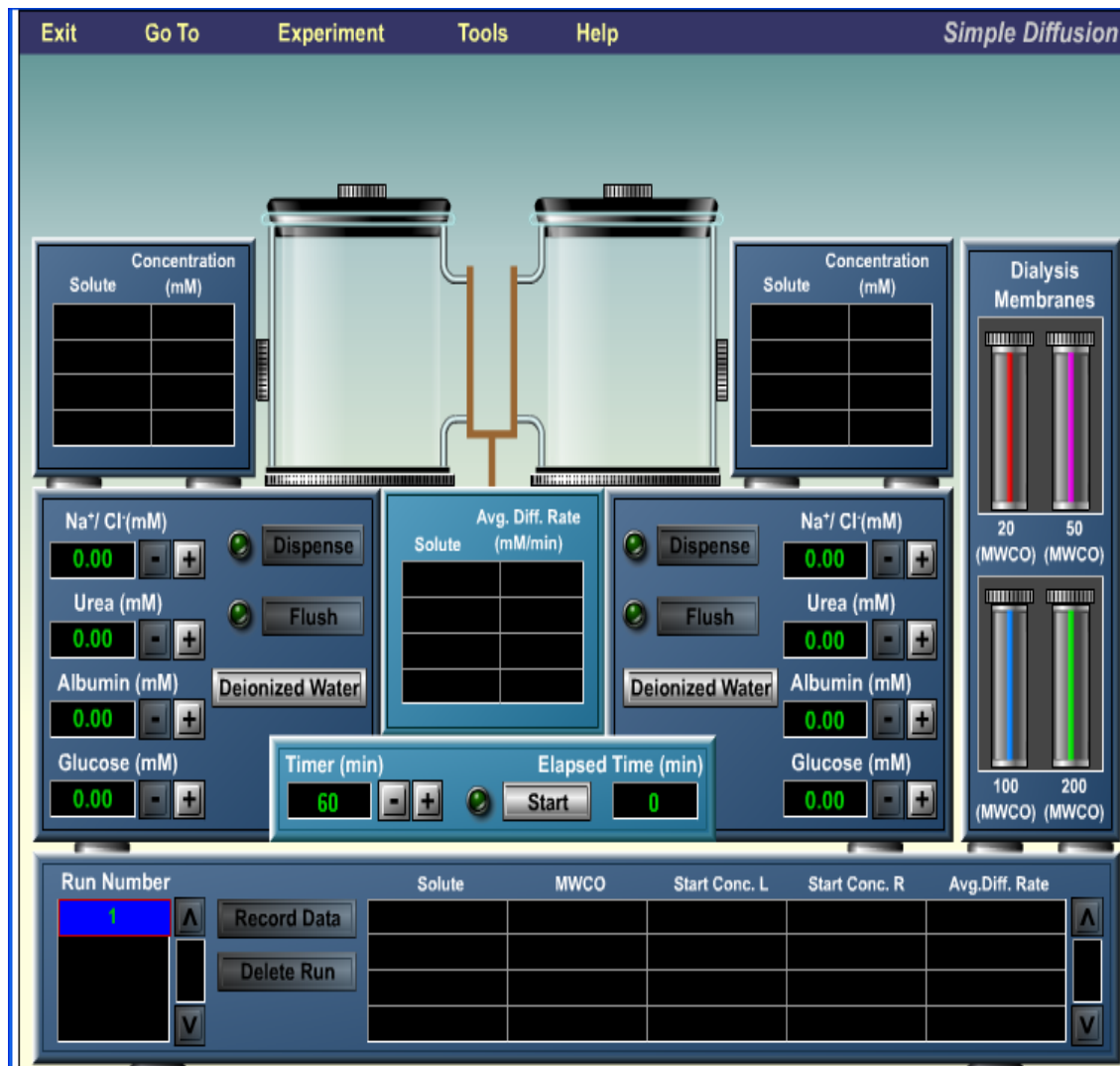
The screenshot displays the 'Pharmaceutical Substances' database interface. The main entry is for **Simvastatin**, showing its chemical structure, molecular formula ($C_{28}H_{48}O_5$), and various identifiers. A sidebar on the left lists 17 substances, with Simvastatin highlighted. The central area features a 3D cube visualization of substance classes (N-Z, A-M, A-M) and a molecular model. To the right, there are sections for 'Intermediates', 'References', and 'Suppliers & Vendors'. The interface is designed for comprehensive chemical and pharmaceutical data retrieval.

Guia de referència per a tots els compostos farmacèutics importants. Proporciona un compendi d'uns 2300 ingredients farmacèutics actius (API's) d'interès per a les indústries química i farmacèutica. És un recurs de valor incalculable per a qualsevol persona que participi en el disseny, descobriment, desenvolupament i la avaluació dels medicaments.

Kleemann A, Engel J. Pharmaceutical substances: syntheses, patents, applications. Stuttgart [etc.]: Thieme; 2001.

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PhysioEx 6.0



PhysioEx 6.0 para fisiología humana és un conjunt de simulacions de laboratori que poden ser utilitzades com a suplement o com a substitut de pràctiques reals. Acompanya al llibre del mateix títol.

Stabler T [et al.]. PhysioEx™ 6.0 para fisiología humana: simulaciones de laboratorio de fisiología. San Francisco [etc.]: Pearson Addison Wesley; 2006.

Signatura: 30 CD 612 Phy

Phytorem

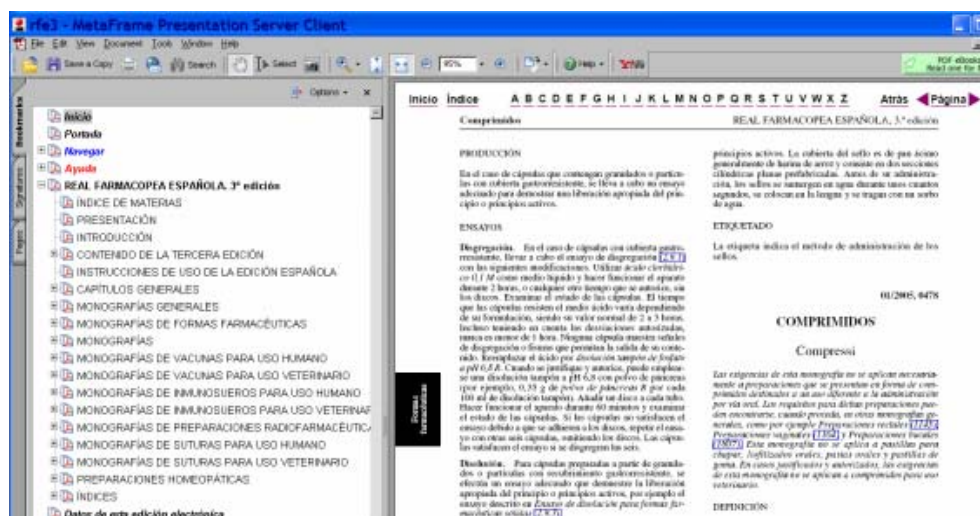
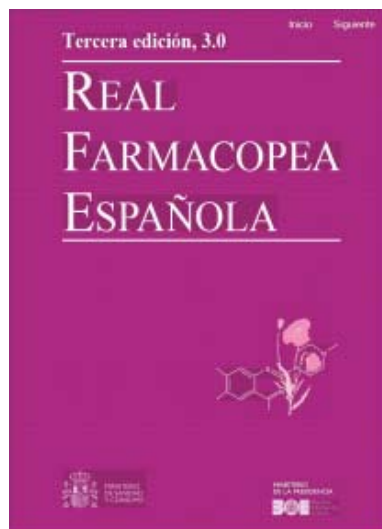


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McIntyre T. Phytoremediation reference database. Environment Canada; 2003.

Signatura: 30 CD 628.5 Phy

REAL FARMACOPEA ESPAÑOLA



Versiò electrònica de la Real farmacopea espanyola. És la traducció de la 5a edició de la Farmacopea Europea (Ph.Eur) més una monografia nacional.

Real farmacopea espanyola. 3a ed. Madrid : Ministerio de Sanidad y Consumo : Boletín Oficial del Estado, 2005.

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By William Sims Bainbridge
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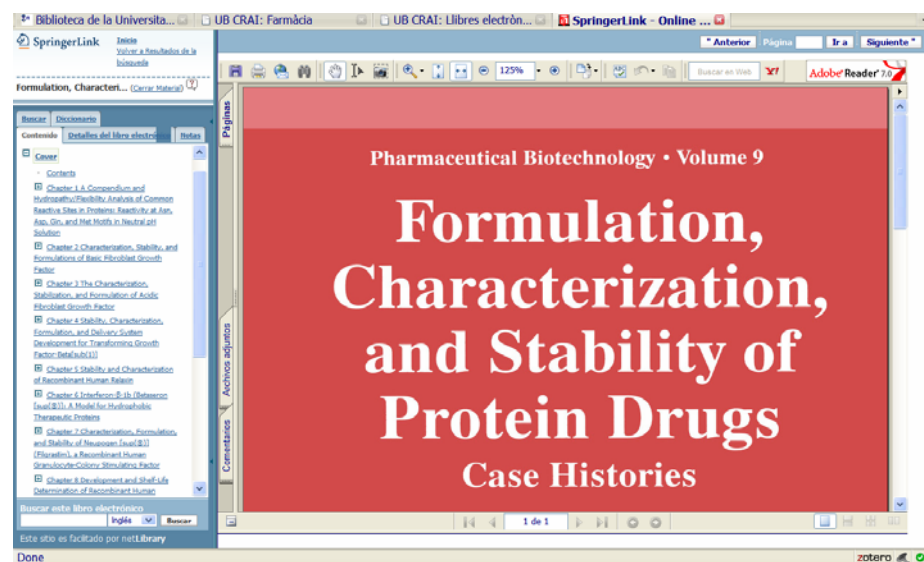
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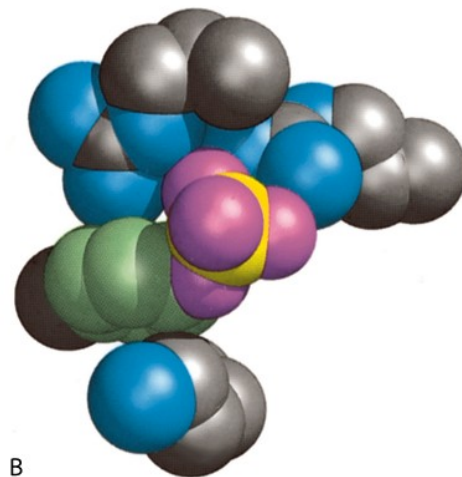
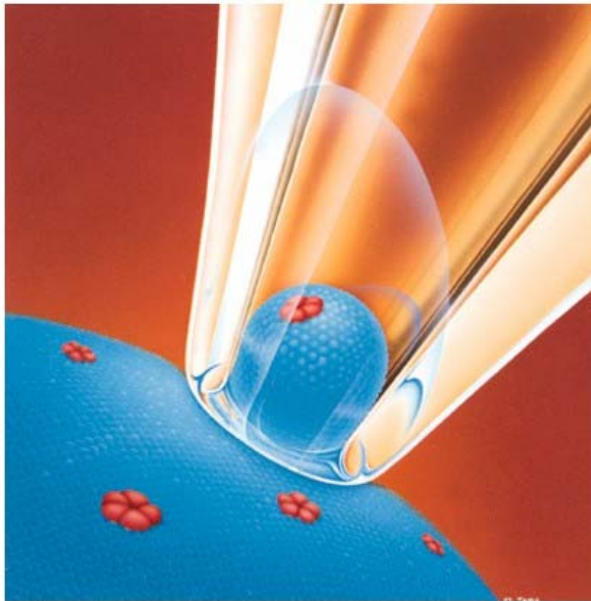
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Stryer L. Media supplement for Stryer's biochemistry. Cadre: Sumanas Multimedia Development Services, W.H. Freeman; 2000.

Signatura: 30 CD 577.1 Str

Programa de càlcul nutricional CESNID 1.0

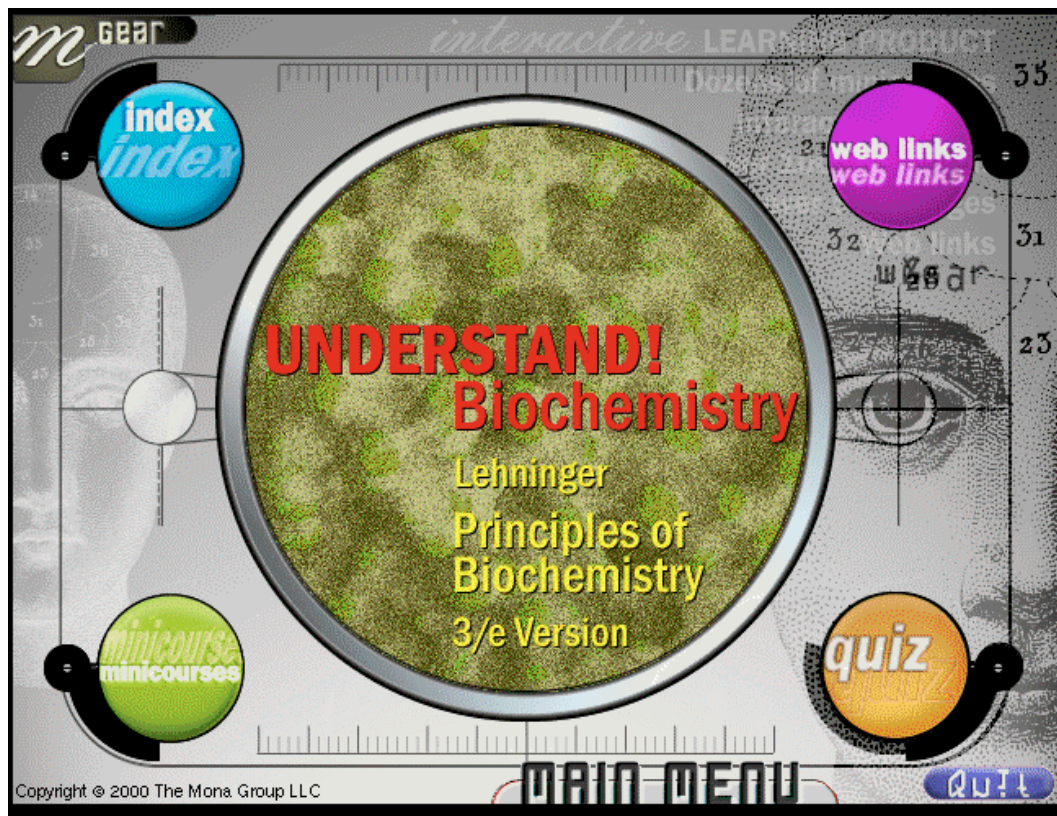


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CESNID. Tablas de composición de alimentos del CESNID. Barcelona: Edicions Universitat de Barcelona. Madrid: McGraw-Hill/Interamericana de España; 2004.

Signatura: 30 CD 641(083) Tab

Understand! Biochemistry



Material d'acompanyament de: **Lehninger principles of biochemistry** (3rd ed.) / David L. Nelson, Michael M. Cox.

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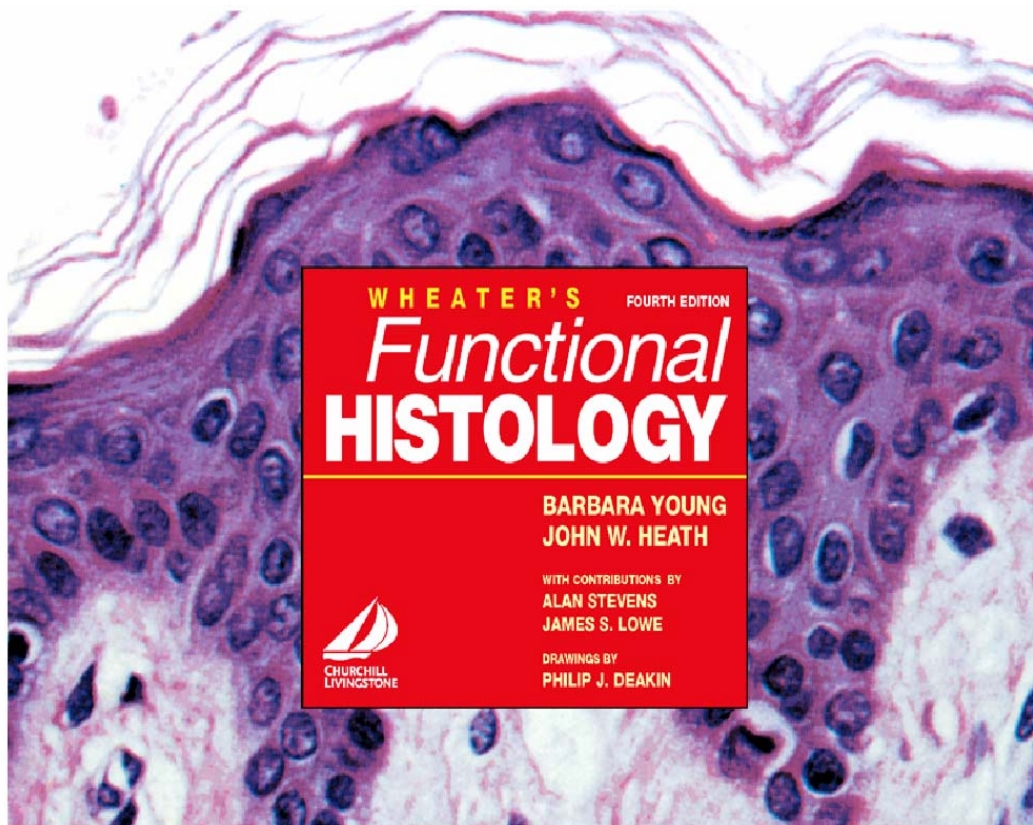
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USP-NF online. Rockville: USPC; [2002]-.

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Wheater's histología funcional: texto y atlas en color. Madrid [etc.]: Harcourt; 2000.

Signatura: 30 CD 611-018 Whe