



University of San Carlos
Josef Baumgartner Learning Resource Center



Pathfinder

Natural Products

www.library.usc.edu.ph

May 2014

Introduction

A pathfinder is a guide to the resources in a particular subject area in the library. It is an instruction/research tool designed to encourage researchers to do a self-directed use of the library.

The Science and Technology Library provide pathfinders basically to support students and faculty in their search for recorded literature and resources available at the USC Library System and accessible on the Net.

Should you have comments, questions and suggestions on this pathfinder, please contact Science and Technology Library at 2300100 local 269 or email to cllanticse@usc.edu.ph

Key Term : Natural Products

Scope : Natural products are generally either of prebiotic origin or originate from microbes, plants, or animal sources. As chemicals, natural products include such classes of compounds as terpenoids, polyketides, amino acids, peptides, proteins, carbohydrates, lipids, nucleic acid bases, ribonucleic acid (RNA), deoxyribonucleic acid (DNA), and so forth. Natural products are not just accidents or products of convenience of nature. More than likely they are a natural expression of the increase in complexity of organisms [76]. Interest in natural sources to provide treatments for pain, palliatives, or curatives for a variety of maladies or recreational use reaches back to the earliest points of history. The term natural products today is quite commonly understood to refer to herbs, herbal concoctions, dietary supplements, traditional Chinese medicine, or alternative medicine. (Spainhour, 2005).

Use For

- ❖ Products, Natural

Broader Term

- ❖ Raw materials
- ❖ Agriculture
- ❖ Biotechnology

Narrower Term

- ❖ Biological Agents
- ❖ Biological Agents -- therapeutic use.
- ❖ Biochemistry
- ❖ Marine natural products
- ❖ Natural products - Analysis
- ❖ Natural products - Biotechnology
- ❖ Natural products - Chemistry
- ❖ Natural products - Spectra
- ❖ Natural products - Handbooks, manuals, etc.
- ❖ Pharmacognosy
- ❖ Phytochemicals - Handbooks, manuals, etc.
- ❖ Plants, Medicinal - Chemistry

FOR BOOKS

BROWSE the library shelves looking for books with these numbers

547 In89

547.2 K84

572 K89

547.7 Su82

547.7 Y26

547.7 C73

547.7 Ah48

For more headings on your subject, check the [Library of Congress List of Subject Headings](#) using these subjects and search the OPAC for availability of library materials:

Antineoplastic agents

Biochemistry

Biological products

Marine natural products

Natural products

Natural products – Biotechnology

Natural products – Spectra

Natural products in agriculture

Pharmacognosy

Don't forget these books at the GENERAL REFERENCE STACK AREA:

Buckingham, J. ed. (1994-1997). *Dictionary of natural products*. London : Chapman & Hall. 547.703/D56

Duke, J. A. (2002). *Handbook of medicinal herbs*. Boca Raton, FL : CRC Press. 615.321/D88

Facts and Comparisons (Firm). (2001). *The review of natural products : the most complete source of natural product information, 2002*. 2nd ed. St. Louis, Mo. : Facts and Comparisons. 615/R32

- Khan, Ikhlas A. (2010). *Leung's encyclopedia of common natural ingredients : used in food, drugs, and cosmetics*. 3rd ed. Hoboken, NJ. : John Wiley & Sons, Inc. 660.63/K52
- Krishnaswamy, N. R. (2012). *Chemistry of natural products : a laboratory handbook*. 2nd ed. Boca Raton, FL : Universities Press. 572/K89
- Mabberley, D. J. (2008). *Mabberley's plant-book : a portable dictionary of plants, their classification and uses*. 3rd ed. Cambridge : Cambridge University Press. 580.14/M11
- Mander, Lewis N. & Liu, Hung-wen, editors. (2010). *Comprehensive natural products II : chemistry and biology*. Amsterdam : Elsevier. 547.7/C73
- Ramawat, K. G. & Merillon, J. M. editors. (2013). *Natural products : phytochemistry, botany and metabolism of alkaloids, phenolics and terpenes: handbook of natural products*. Heidelberg, Germany : Springer Reference. 572.2/N21
- Smolke, Christina D. (2010). *The metabolic pathway engineering handbook : fundamental*. Boca Raton : CRC Press/Taylor & Francis. 660.65/M56

FOR SUBJECT REFERENCE

- Ahluwalia, V. K. (2006). *Chemistry of natural products : Amino Acids, Peptides, Proteins, and Enzymes*. Boca Raton, Fla. : Ane Books India. 547.7/Ah48.
- Berger, Stefan. (2009). *Classics in spectroscopy : isolation and structure elucidation of natural products*. Weinheim : WILEY-VCH. 538.362/B45
- Bhat, Sujata V. (2009). *Natural products : chemistry and applications*. Oxford, UK : Alpha Science International. 660.63/B46
- Bhat, Sujata V. (2005). *Chemistry of natural products*. New Delhi : Narosa Publishing House. 547.7/B46
- Blackwell, W. H. (1990). *Poisonous and medicinal plants*. Englewood Cliffs, NJ : Prentice Hall. 581.69/B56
- Colegate, Steven M. ed. (2008). *Bioactive natural products : detection, isolation, and structural determination*. 2nd ed. Boca Raton : CRC Press. 572/B52
- Cragg, Gordon M. L. ed. (2012). *Anticancer agents from natural products*. 2nd ed. Boca Raton : CRC Press. 616.994061/An87
- Dewick, Paul M. (2002). *Medicinal natural products : a biosynthetic approach*. 2nd ed. New York : John Wiley & Sons.
- Evans, W. C. (2009). *Trease and Evans' pharmacognosy*. 14th ed. London : WB Saunders. 615.321/Ev15

- Kim, Se-Kwon, ed. (2013). *Marine biomaterials : characterization, isolation, and applications*. Boca Raton, Fla. : CRC Press. 578.76/M33
- Koskinen, Ari M. P. (2012). *Asymmetric synthesis of natural products*. 2nd ed. Hoboken, New Jersey : Wiley. 547.2/K84
- Kumar, Baldev. (2005). *Biogenesis of natural products*. Harrow : Alpha Science. 547.7/K86
- Liang, Xiaotian. ed. (2006). *Medicinal chemistry of bioactive natural products*. Hoboken, N.J. : Wiley-Interscience/John Wiley. 615.321/M46
- Ramawat, K. G. & Merillon, J. M. editors. (2013). *Natural products : phytochemistry, botany and metabolism of alkaloids, phenolics and terpenes: handbook of natural products*. Heidelberg, Germany : Springer Reference. 572.2/N21
- Schroeder, Wen. (2011). *Sustainable cosmetic product development*. Carol Stream, IL. : Allured Books. 547.7/Su82
- Tringali, Corrado. (2012). *Bioactive compounds from natural sources : natural products as lead compounds in drug discovery*. 2nd ed. Boca Raton : CRC Press. 615.321/B52
- Yasmeen, Shazia. (2010). *Isolation and synthesis of biologically active natural products : studies on the chemical constituents of Taraxacum wallichii, Salvia cabulica, and synthesis of the Analigues of Depsipeptide Jasplakinolide*. Saarbrücken : VDM Verlag Dr. Müller. 547.7/Y26
- Xu, Rensheng & Ye, Yang eds. (2012). *Introduction to natural products chemistry*. Beijing : Science Press. 547/In89

FOR PERIODICALS

Try the Online Databases to find articles on your subject:

- ProQuest Central(<http://search.proquest.com/login>)
- ScienceDirect (<http://www.sciencedirect.com/>)
- Scopus (<http://www.scopus.com/home.url>)
- SpringerLink (<http://link.springer.com/>)
- EBSCOHOST(<http://web.ebscohost.com/ehost/search/basic?sid=577e8f3d-9cac-4d6c-9753-9d45b2fe89bc%40sessionmgr114&vid=2&hid=108>)

Internet Sites

American Botanical Council
<http://www.herbalgram.org>

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American Herbalists Guild

<http://www.americanherbalistsguild.com/top.htm>

Complementary & Alternative Methods

http://www.cancer.org/eprise/main/docroot/eto/eto_5?sitearea=eto

Dr. Duke's Phytochemical and Ethnobotanical Databases

<http://www.ars-grin.gov/duke>

HerbMed

<http://www.herbmed.org/>

Herb Research Foundation

<http://www.herbs.org>

Herbal Education Services

<http://www.botanicalmedicine.org>

Herbal Medicine: Internet Resources: Alternative Medicine

<http://www.pitt.edu/~cbw/herb.html>

International Herb Association

<http://www.iherb.org>

National Center for Complementary and Alternative Medicine

<http://nccam.nih.gov/>

MEDLINEplus: Alternative Medicine

<http://www.nlm.nih.gov/medlineplus/alternativemedicine.html>

World Health Organization Publications

<http://www.who.int/dsa/cat98/trad8.htm>

Information Retrieval Services

BIOSIS

<http://www.biosis.org>

Chemical Abstracts Service

<http://www.cas.org/>

Current Contents and Science Citation Index

<http://www.isinet.com/isi>

Excerpta Botanica. Section A, Taxonomica et Chorologica, International Association for Plant Taxonomy, G. Fischer, Stuttgart, New York.

The Herb Research Foundation

<http://www.herbs.org/>

IPA (International Pharmaceutical Abstracts)

<http://info.cas.org/ONLINE/DBSS/ipass.html>.

Database contains international coverage of pharmacy and health-related literature.

Lynn Index, Massachusetts College of Pharmacy

Medicinal and Aromatic Plants Abstracts.

Publications and Information Directorate, Council of Scientific and Industrial Research (CSIR), New Delhi, India.

MEDLINE, MEDLARS

<http://www.nlm.nih.gov/>

NAPRALERT (NAtural PRoducts ALERT)

<http://www.aq.uiuc.edu/~ffh/napra.html>

NAPRONET

<http://ccl.net/chemistry/resources/tips/list/>

[NAPRONET/index.shtml](http://ccl.net/chemistry/resources/tips/list/)

Poisindex System

infor@mdx.com or <http://www.micromedex.com/products/poisindex>

TOXLINE

<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?TOXLINE>

Toxicology Information Response Center (TIRC)

<http://www.ornl.gov/TechResources/tirc/hmepg.html>

REMEMBER

IF IN DOUBT asks for HELP...

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