

Basic Resources for Pharmacy Education

March 2009 Edition

**A Service Project of the
Libraries/Educational Resources Section of the
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*Dedicated to the Memory of Winifred Sewell,
Our Mentor and Friend*

Basic Resources for Pharmaceutical Education is produced as a guide for those who manage library collections that serve colleges of pharmacy. The list's editors and current contributors all work in such libraries and this list contains our recommendations for works to be included in pharmacy library collections. The books and other works recommended in the Basic Resources list are suitable for all pharmacy college libraries, but all pharmacy college libraries need not purchase every title in the list. Each pharmacy college has its own mission and its own program(s), and so each college's library's collection must reflect that mission and support the college's program(s). Excellent library collections are built by knowledgeable librarians using their professional judgment along with the expertise of the college's faculty. The Basic Resources, therefore, should not be used as a benchmark and is not prescriptive, but instead is a starting place for librarians who are building a new collection or maintaining an established one.

Producing *Basic Resources* is a community effort. Each *Basic Resources* section is reviewed every three or four years by a contributor. The contributors review assigned sections of the list and make suggestions for additions and deletions to the section. Then the editors compile the suggested additions and deletions, and ask an advisory panel of pharmacy librarians and faculty for their approval of the suggested changes. Approved changes are then incorporated into the list's database. There are two review cycles each year so that two sets of sections are reviewed during the course of the year. Our goal is to review the entire list every three years and to publish *Basic Resources* annually.

We welcome volunteers both to contribute to Basic Resources by reviewing sections or to serve on our advisory panel. For more information about how the list is maintained or to volunteer to work on it, please contact either Leslie Ann Bowman (l.bowman@usip.edu) or Barbara Nanstiel (barbara.nanstiel@wilkes.edu).

Subject Classification of the Basic Resources for Pharmacy Education

A.0 BASIC SCIENCES

A.1. GENERAL CHEMISTRY

A.2 BIOCHEMISTRY (see also B.1 MEDICINAL CHEMISTRY)

A.3 IMMUNOLOGY

A.4.0 MICROBIOLOGY

A.4.a MOLECULAR BIOLOGY AND BIOTECHNOLOGY

B.0 PHARMACEUTICAL SCIENCES

B.1 MEDICINAL CHEMISTRY

B.2 PHARMACOGNOSY AND NATURAL PRODUCTS (see also D.3.C NUTRITION AND NUTRACEUTICALS)

B.3.0 PHARMACEUTICS

B.3.a BIOPHARMACEUTICS AND PHARMACOKINETICS

B.4.0 DRUG DESIGN, DISCOVERY, AND DEVELOPMENT (see also D.5.0 INDUSTRIAL)

B.5.0 INDUSTRIAL

B.6.0 COSMETICS

B.7.0 NUCLEAR AND RADIOPHARMACY

B.8.0 PHARMACOLOGY

B.8.a.0 TOXICOLOGY

B.8.a.1 DRUG ADVERSE REACTIONS, INTERACTIONS, AND SIDE EFFECTS (see also D.3.0 THERAPETUICS)

B.8.b VETERINARY PHARMACOLOGY

C.0 MEDICAL SCIENCES (SCIENCES BASIC TO MEDICINE)

C.1 ANATOMY AND PHYSIOLOGY

D.0 CLINICAL SCIENCES

D.1 PATHOPHYSIOLOGY

D.2 PATIENT PHYSICAL ASSESSMENT

D.3.0 THERAPEUTICS

D.3.a GERIATRICS

D.3.b NEUROLOGY

D.3.c NUTRITION AND NUTRACEUTICALS

D.3.d ONCOLOGY AND HEMATOLOGY

D.3.e PARENTERALS

D.3.f PEDIATRICS

D.3.g PSYCHIATRY

- D.0 CLINICAL SCIENCES (continued)**
 - D.3.0 THERAPEUTICS (continued)**
 - D.3.h SUBSTANCE ABUSE**
 - D.3.i SURGERY**
 - D.4. ALTERNATIVE MEDICINE**
- E.0 PHARMACEUTICAL CARE (SOCIAL, BEHAVIORAL, AND ADMINISTRATIVE PHARMACY)**
 - E.1.0 HEALTH CARE POLICY, SYSTEMS AND SERVICES**
 - E.1.a EPIDEMIOLOGY**
 - E.1.b PHARMACOECONOMICS**
 - E.2.0 PATIENT-RELATED ACTIVITIES**
 - E.2.a DISEASE STATE MANAGEMENT**
 - E.2.b SELF CARE (OTCs)**
 - E.3.0 PHARMACISTS' PROFESSIONAL DEVELOPMENT**
 - E.3.a COMMUNICATION SKILLS**
 - E.3.b EDUCATION**
 - E.4.0 PROFESSIONAL PRACTICE**
 - E.4.c COMMUNITY PHARMACY**
 - E.4.b HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY**
 - E.4.c HOME HEALTH CARE**
 - E.4.d MANAGED CARE**
 - E.4.e DRUG USE EVALUATION**
- X.1.0 HISTORY†**
- X.2.0 INFORMATICS†**
 - X.2.a BIBLIOGRAPHICS AND LITERATURE GUIDES†**
 - X.2.b HANDBOOKS AND DICTIONARIES†**
 - X.2.c EVIDENCE-BASED PRACTICE†**
- X.3 LAWS, LEGISLATION, REGULATIONS, AND ETHICS†**
- X.4.0 METHODOLOGY , STATISTICS, AND RESEARCH DESIGN†**
 - X.4.a QUALITY ASSURANCE†**
- X.5 DIRECTORIES†**

†The classifications beginning with 'X' may also be used as subdivisions of other classifications. Examples:

A.2 - X.4.0 BIOCHEMISTRY - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

B.4.0 - X.1.0 DRUG DESIGN, DISCOVERY, AND DEVELOPMENT – HISTORY

BASIC RESOURCES FOR PHARMACY EDUCATION

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A.0 - X.6.1.c BASIC SCIENCES - ONLINE ABSTRACTS AND INDEXES

Biosis previews. Thomson Scientific, updated weekly. Available in a variety of formats and at various prices. Print title: Biological abstracts. URL: <http://www.biosis.org/>

CAPLus. CAS, updated daily. Available in a variety of formats and at various prices. Print title: Chemical abstracts. URL: <http://info.cas.org/>

Current contents. Thomson Scientific, updated weekly. Available in a variety of formats and at various prices. URL: <http://www.isinet.com/products/cap/ccc/>

Science citation index. Thomson Scientific, updated weekly. Available in a variety of formats and at various prices. Also known as SciSearch. URL: <http://scientific.thomson.com/products/sci/>

A.1 GENERAL CHEMISTRY

Farrell, Nicholas P., ed. Uses of inorganic chemistry in medicine. Cambridge, UK: Royal Society of Chemistry, 1999. ISBN: 0854044442. \$144.00.

Van Nostrand's encyclopedia of chemistry. 5th ed. New York: Wiley, 2005. ISBN: 0471615250. \$195.00.

A.1 - X.2.b GENERAL CHEMISTRY - HANDBOOKS AND DICTIONARIES

CRC handbook of chemistry and physics. Boca Raton, FL: Taylor and Francis. ISBN: 0363-3055. 87th ed. (2006/07), \$139.95. Available in a variety of formats.

A.1 - X.7 GENERAL CHEMISTRY - WEB SITES

PubChem. Bethesda: National Center for Biotechnology Information and the National Library of Medicine, updated daily. URL: <http://pubchem.ncbi.nlm.nih.gov/>

A.2 BIOCHEMISTRY

Berg, Jeremy; Tymoczko, Mark; Stryer, John L., et al. Biochemistry. 6th ed. New York: W. H. Freeman, 2007. ISBN: 0716787245. \$165.00.

Devlin, Thomas M., ed. Textbook of biochemistry: with clinical correlations. 6th ed. New York: Wiley, 2005. ISBN: 0471678082. \$115.00.

*Title suggested for first purchase

A.3 IMMUNOLOGY

Benjamini, Eli; Sunshine, Geoffrey H.; and Coico, Richard. Immunology: a short course. 5th ed. New York: Wiley-Liss, 2003. \$52.50.

Parslow, Tristram G.; Stites, Daniel P.; Terra, Abba I., et al., eds. Medical immunology. 10th ed. New York: McGraw-Hill Medical, 2001. ISBN: 0838563007. \$64.95.

Robinson, Andrew; Farrar, Graham H.; and Wiblin, Christopher N., eds. Vaccine protocols. 2nd ed. Totowa, NJ: Humana, 2003. ISBN: 0896033341. \$135.00.

A.4.0 MICROBIOLOGY

Alouf, Joseph E.; and Popoff, Michel R., eds. The comprehensive sourcebook of bacterial protein toxins. 3rd ed. Amsterdam, the Netherlands: Elsevier, 2006. ISBN: 0120884453. \$199.95.

American Academy of Pediatrics. Committee on Infectious Diseases. Red book: report of the Committee on Infectious Diseases, 2000. 25th ed. Elk Grove Village, IL: American Academy of Pediatrics, 2000. ISBN: 1581100388. \$89.95.

Boelsterli, Urs A. Mechanistic toxicology: the molecular basis of how chemicals disrupt biological targets. London, England: Taylor and Francis, 2003. ISBN: 0415284597. \$96.00.

Boucher, Charles A. B.; and Galasso, George A. Practical guidelines in antiviral therapy. Amsterdam, the Netherlands: Elsevier, 2002. ISBN: 0444508848. \$68.00.

*Conte, John E., Jr. Manual of antibiotics and infectious diseases. 9th ed. Philadelphia: Lippincott Williams & Wilkins, 2002. ISBN: 0781723167. \$49.95.

Current infectious disease drugs. Philadelphia: Current Medicine, 1996. ISBN: 1878132717. \$42.00.

Endo, I.; Yamaguchi, I.; Kudo, T., et al., eds. Molecular anatomy of cellular systems. Amsterdam, the Netherlands: Elsevier, 2002. ISBN: 0444507396. \$96.00.

Greenwood, David. Antimicrobial chemotherapy. 4th ed. New York: Oxford, 2000. ISBN: 01926301950. \$59.95.

Hugo, W. B.; and Russell, A. D. Pharmaceutical microbiology. 6th ed. Malden, MA: Blackwell Science, 1998. ISBN: 063204196X. \$95.00.

Langel, Ulo. Cell-penetrating peptides: processes and applications. Boca Raton, FL: CRC Press, 2002. ISBN: 0849311411. \$159.95.

A.4.0 - X.4.0 MICROBIOLOGY- METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

Bacteriological analytical manual online. 8th ed. Washington, DC: Center for Food Safety and Applied Nutrition, U.S. Food and Drug Administration, 2001. Free.

Easter, Martin C. Rapid microbiological methods in the pharmaceutical industry. Boca Raton, FL: Interpharm Press, 2003. ISBN: 1574911414. \$239.95.

Yan, Qing. Membrane transporters: methods and protocols. Totowa, NJ: Humana Press, 2003. ISBN: 1588291049. \$99.50.

A.4.a MOLECULAR BIOLOGY AND BIOTECHNOLOGY

Bourne, Philip, E.; and Wessig, Helge. Structural bioinformatics. New York: Wiley-Liss, 2003. ISBN: 0471201995. \$84.95.

Crommelin, Daan J. A.; and Sindelar, Robert D. Pharmaceutical biotechnology: an introduction for pharmacists and pharmaceutical scientists. 2nd ed. London, England: Routledge, 2002. ISBN: 0415285003. \$159.95.

Groves, Michael J. Pharmaceutical biotechnology. 2nd ed. Boca Raton, FL: Taylor & Francis, 2005. ISBN: 0849318734. \$139.95.

Harrigan, George C.; and Goodacre, Royston, eds. Metabolic profiling: its role in biomarker discovery and gene function analysis. Boston: Kluwer, 2003. ISBN: 1402073704. \$125.00.

Ho, Rodney J. Y.; and Gibaldi, Milo. Biotechnology and biopharmaceuticals: transforming proteins and genes into drugs. Hoboken, NJ: Wiley-Liss, 2003. ISBN: 0471206903. \$79.95.

Hondermarck, Hubert. Proteomics: biomedical and pharmaceutical applications. Dordrecht, the Netherlands: Kluwer, 2004. ISBN: 1402023227. \$74.95.

Kalow, Werner; Meyer; Urs, A., et al., eds. Pharmacogenomics. 2nd ed. Boca Raton, FL: Taylor and Francis, 2005. ISBN: 1574448781. \$199.95.

Karlix, Janet L. Pharmacogenomics: an introduction for the health care professional. Washington, DC: American Pharmacists Association, 2003. ISBN: 1582120455. \$59.95.

Larson, Richard S. Bioinformatics and drug discovery. Totowa, NJ: Humana Press, 2005. ISBN: 1588293467. \$125.00.

Licinio, Julio; and Wong, Ma-Li. Pharmacogenomics: the search for individualized therapies. New York: Wiley, 2002. ISBN: 3527303804. \$95.00.

Mei, Hong-Yau; and Czarnik, Anthony W., eds. Integrated drug discovery technologies. New York: Marcel Dekker, 2002. ISBN: 9780824706494. \$189.95.

Singleton, Paul. Bacteria in biology, biotechnology, and medicine. 6th ed. New York: Wiley, 2004. ISBN: 047009026X. \$80.00.

Walker, John M.; and Rapley, Ralph. Molecular biology and biotechnology. 4th ed. Cambridge: Royal Society of Chemistry, 2000. ISBN: 0854046062. \$88.95.

Walsh, Gary. Biopharmaceuticals: biochemistry and biotechnology. 2nd ed. New York: Wiley, 2003. ISBN: 0470843276. \$50.00.

A.4.a - X.1.0 MOLECULAR BIOLOGY AND BIOTECHNOLOGY - HISTORY

Fletcher, A., ed. History of modern biotechnology II. Berlin, Germany: Springer-Verlag, 2000. ISBN: 3540677925. \$135.00.

A.4.a - X.2.b MOLECULAR BIOLOGY AND BIOTECHNOLOGY - HANDBOOKS AND DICTIONARIES

Bains, William. Biotechnology from A to Z. 3rd ed. New York: Oxford, 2004. ISBN: 0199636931. \$54.50.

Juo, Pei-Show, ed. Concise dictionary of biomedicine and molecular biology. 2nd ed. Boca Raton, FL: CRC Press, 2002. ISBN: 0849309409. \$139.95.

Nill, Kimball R., ed. Glossary of biotechnology and nanobiotechnology terms. 4th ed. Boca Raton, FL: Taylor and Francis, 2006. ISBN: 0849366097. \$89.95.

Redei, George P., ed. Encyclopedic dictionary of genetics, genomics, and proteomics. 2nd ed. New York: Wiley, 2003. ISBN: 0471268216. \$179.00.

Rho, Jay P.; and Louie, Stan G., eds. Handbook of pharmaceutical biotechnology. New York: Pharmaceutical Products Press, 2003. ISBN: 0789001527. \$59.95.

Singleton, Paul; and Sainsbury, Diana, eds. Dictionary of microbiology and molecular biology. 3rd ed. New York: Wiley, 2001. ISBN: 0471490644. \$70.00.

Smith, Anthony D., ed. Oxford dictionary of biochemistry and molecular biology. Rev. ed. Oxford, England: Oxford, 2000. ISBN: 0198506732. \$65.00.

A.4.a - X.3 MOLECULAR BIOLOGY AND BIOTECHNOLOGY - LAWS, LEGISLATION, REGULATIONS, AND ETHICS

Brown, Stuart M. Essentials of medical genomics. Hoboken, NJ: Wiley, 2002. ISBN: 9780471210030. \$68.50.

Rothstein, Mark A., ed. Pharmacogenomics: social, ethical, and clinical dimensions. Hoboken, NJ: Wiley, 2003. ISBN: 9780471227694. \$79.95.

Subramanian, G., ed. Manufacturing of gene therapeutics: methods, processing, regulation and validation. New York: Kluwer, 2001. ISBN: 9780306466809. \$159.00.

B.0 - X.6.1.c PHARMACEUTICAL SCIENCES - ONLINE ABSTRACTS AND INDEXES

IDIS: Iowa drug information service. Division of Drug Information Service, College of Pharmacy, University of Iowa. Available in a variety of formats and at various prices. URL: <http://www.uiowa.edu/~idis/idistday.htm>

IPA: international pharmaceutical abstracts. Thomson. Available in a variety of formats and at various prices. URL: <http://scientific.thomson.com/products/ipa/>

B.1 MEDICINAL CHEMISTRY

- *Annual reports in medicinal chemistry. Boston: Academic, annual. 1965-. 2001, vol. 36, \$85.00.
- *Burger's medicinal chemistry and drug discovery. 6th ed. New York: Wiley, 2003. ISBN: 0471370320. Vols. 1-6, \$2250.00.
- Bladon, Christine. Pharmaceutical chemistry: therapeutic aspects of biomacromolecules. New York: Wiley, 2002. ISBN: 0471496367. \$230.00.
- Cairns, Donald. Essentials of pharmaceutical chemistry. 3rd ed. London, England: Pharmaceutical Press, 2003. ISBN: 0853695709. \$45.00.
- *Foye's principles of medicinal chemistry. 6th ed. Philadelphia: Lippincott Williams & Wilkins, 2007. ISBN: 9780781768795. \$92.95.
- Gringauz, Alex. Introduction to medicinal chemistry: how drugs act and why. New York: VCH, 1997. ISBN: 0471185450. \$120.00. 2nd ed., by Bruce S. Burnham, I.H. Hall and Alex Gringauz, due 02/09.
- Lemke, Thomas L. Review of organic functional groups: introduction to medicinal organic chemistry. 4th ed. Philadelphia: Lippincott Williams & Wilkins, 2003. ISBN: 9780781743815. \$42.95.
- Nogrady, Thomas. Medicinal chemistry : a molecular and biochemical approach. 3rd ed. New York: Oxford, 2005. ISBN: 9780195104554. \$95.00.
- Patrick, Graham L. An introduction to medicinal chemistry. 3rd ed. New York: Oxford University, 2005. ISBN: 9780199275007. \$59.50.
- Silverman, Richard B. The organic chemistry of drug design and drug action. 2nd ed. Amsterdam, the Netherlands: Academic Press, 2004. ISBN: 9780126437324. \$92.95.
- Thomas, Gareth. Medicinal chemistry: an introduction. 2nd ed. New York: Wiley, 2007. ISBN: 9780470025970 \$160.00. Also available in paperback
- Thomas, Gareth. Medicinal chemistry: an introduction. 2nd ed. New York: Wiley-Interscience, 2008. ISBN: 9780470025970. \$60.00.
- *Wilson and Gisvold's textbook of organic medicinal and pharmaceutical chemistry. 11th ed. Philadelphia: Lippincott Williams & Wilkins, 2004. ISBN: 0781734819. \$80.95.

B.1 - X.2.b MEDICINAL CHEMISTRY - HANDBOOKS AND DICTIONARIES

- Negwer, Martin. Organic-chemical drugs and their synonyms. 9th ed. New York: Wiley-VCH, 2007. ISBN: 3527319395. \$2,590.00.

B.1 - X.4.0 MEDICINAL CHEMISTRY - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

- *Profiles of drug substances, excipients, and related methodology. Boston: Academic, annual. 2003-.

ISBN: 9780122608339. Vol. 33 (2008), \$215. Vols. 25-29 and 31-32 also available at \$215 each. Previous titles: Analytical profiles of drug substances, v. 1 (1972)-20 (1991); Analytical profiles of drug substances and excipients, v. 21 (1992)-v. 29 (2002).

World Health Organization. Quality Assurance and Safety: Medicines. Reference substances and infrared reference spectra for pharmacopoeial analysis. Geneva, Switzerland: WHO, 1999. URL: <http://www.who.int/medicinedocs/en/d/Jwhozip21e/#Jwhozip21e>

B.1 - X.7 MEDICINAL CHEMISTRY - WEB SITES

Harrold, Marc W. Basic concepts in medicinal chemistry [tutorial]. School of Pharmacy, Duquesne, 2001-. URL: http://www-home.cr.duq.edu/~harrold/basic_concepts_index.html

B.2 PHARMACOGNOSY AND NATURAL PRODUCTS

Blumenthal, Mark; Goldberg, Alicia; and Brinckmann, Josef, eds. Herbal medicine: expanded Commission E monographs. Newton, MA: Integrative Medicine Communications, 2000. ISBN: 9780967077215. \$59.95.

*Bruneton, Jean. Pharmacognosy, phytochemistry, medicinal plants. 2nd ed. London, England: Intercept, Ltd., 1999. ISBN: 9781898298632. \$197.00.

Colegate, Steven M.; and Molyneux, Russell J., eds. Bioactive natural products: detection, isolation, and structural determination. Boca Raton, FL: CRC, 2007. ISBN: 9780849372582. \$199.95.

Cupp, Melanie J., ed. Toxicology and clinical pharmacology of herbal products. Totowa, NJ: Humana, 2000. ISBN: 9780896037915. \$134.50.

Cupp, Melanie J.; and Tracy, Timothy S., eds. Dietary supplements: toxicology and clinical pharmacology. Totowa, NJ: Humana, 2003. ISBN: 9781588290144 \$150.00.

Dermarderosian, Ara; and Beutler, John A., eds. Review of natural products. 4th ed. St. Louis: Facts & Comparisons, 2008. ISBN: 1574391682 \$79.95. Available in a variety of formats.

Huang, Kee Chang; and Williams, W. Michael. The pharmacology of Chinese herbs. 2nd ed. Boca Raton, FL: CRC Press, 1999. ISBN: 9780849316654. \$199.95.

Kayne, Steven. Homeopathic pharmacy: an introduction and handbook. 2nd ed. New York: Churchill Livingstone, 2006. ISBN: 9780443101601. \$73.95.

Mahady, Gail B.; Fong, Harry H.S.; and Farnsworth, N.R. Botanical dietary supplements: quality, safety and efficacy. Exton, PA: Lisse, 2001. ISBN: 9789026518553. \$149.95.

Mathieu, Mark, ed. Biologics development: a regulatory overview. 3rd ed. Centreville, VA: Barnett Educational, 2004. ISBN: 9781882615674. \$145.00.

Miller, Lucinda G.; and Murray, Wallace J., eds. Herbal medicinals: a clinician's guide. New York: Pharmaceutical Products Press, 1999. ISBN: 9780789004673. \$99.95.

Morton, Julia F. Major medicinal plants: botany, culture and uses. Springfield, IL: Thomas, 1987. ISBN: 9780398036737 \$103.95, o.p.

Natural Standard. Herb & supplement reference. St. Louis: Mosby, 2005. ISBN: 9780323029940. \$138.00 print; \$59.00 if ordered with yearly Web or PDA; available in a variety of formats. Free patient edition available through MedlinePlus: drugs and supplements section.

Nigg, Herbert N.; and Seigler, David, eds. Phytochemical resources for medicine and agriculture. New York: Plenum, 1992. ISBN: 9780306442452. \$276.00.

Robinson, Trevor. The organic constituents of higher plants. 6th ed. North Amherst, MA: Cordus, 1991. ISBN: 9780935118032. o.p.

Rotblatt, Michael; and Ziment, Irwin, eds. Evidence-based herbal medicine. Philadelphia: Hanley & Belfus, 2002. ISBN: 9781560534471. \$44.95.

Total synthesis of natural products. New York: Wiley, 1973-1999. Vol. 1-9, \$1975.00; Vol. 10-11 \$315.00.

*Trease and Evans' pharmacognosy. 15th ed. Edinburgh, Scotland: Saunders, 2002. ISBN: 0702026174. \$138.00.

Tsumura, Akira. Kampo: how the Japanese updated traditional herbal medicine. New York: Japan Publications, 1991. ISBN: 9780870407925. \$29.95.

*Tyler's herbs of choice: the therapeutic use of phytomedicinals. 2nd ed. New York: Haworth, 1999. ISBN: 9780789001597. \$54.95.

Altschul, Siri von Reis, ed. Drugs and foods from little known plants: notes in Harvard University herbaria. Cambridge, MA: Harvard, 1973. ISBN: 9780674216761. \$63.00.

Von Reis, Siri; and Lipp, Frank J., Jr. New plant sources for drugs and foods from the New York Botanical Garden herbarium. Cambridge, MA: Harvard, 1982. ISBN: 9780674617650. \$57.00.

B.2 - X.1.0 PHARMACOGNOSY AND NATURAL PRODUCTS - HISTORY

Duke's handbook of medicinal plants of the Bible. Boca Raton, FL: CRC Press, 2007. ISBN: 9780849382024. \$71.96.

Duke, James A. Medicinal plants of the Bible: 2000 years of plant medicine. Loveland, CO: Interweave Press, 1999. ISBN: 1883010667. \$34.95.

Dymock, William; Warden, C. J. H.; and Hooper, David. Pharmacographia indica: a history of principal drugs of vegetable origin. New Delhi, India: Vedams eBooks Ltd. , 1995. ISBN: 8186142630. \$200.00 (set).

B.2 - X.2.b PHARMACOGNOSY AND NATURAL PRODUCTS - HANDBOOKS AND DICTIONARIES

AltMedDex system. Thomson MICROMEDEX, updated quarterly. MICROMEDEX products available to schools of pharmacy without charge when limited to teaching purposes, not clinical use. Available on CD-ROM and online.

- Barnes, Joann; Anderson, Linda A.; and Phillipson, J. David. Herbal medicines. 3rd ed. London, England: Pharmaceutical Press, 1996. ISBN: 9780853696230. \$150.00; Available in a variety of formats.
- Duke, James A.; Bogenschulz-Godwin, Mary Jo; and Duke, Peggy-Ann K. Handbook of medicinal herbs. 2nd ed. Boca Raton, FL: CRC, 2002. ISBN: 9780849312847. \$249.95.
- Duke, James A.; Foster, Steven; and Peterson, Roger Tory, eds. Field guide to medicinal plants and herbs: of eastern and central North America. Boston: Houghton Mifflin, 1999. ISBN: 9780395988145. \$19.00.
- Hocking, George M. Dictionary of natural products: terms in the field of pharmacognosy relating to natural medicinal and pharmaceutical materials and the plants, animals, and minerals from which they are derived. 2nd ed. Medford, NJ: Plexus, 1997. ISBN: 0937548316. \$139.50.
- Krinsky, Daniel L.; Lavalley, James B.; Hawkins, Ernest B., et al. Natural therapeutics pocket guide. 2nd ed. Hudson, OH: Lexi-Comp, 2003. ISBN: 1930598998. \$39.95.
- *Leung, Albert Y.; and Foster, Steven. Encyclopedia of common natural ingredients used in food, drugs, and cosmetics. 2nd ed. New York: Wiley, 2003. ISBN: 9780471471288. \$170.00.
- Mills, Edward; Dugoua, Jean-Jacques; Perri, Dan, et al. Herbal medicines in pregnancy and lactation: an evidence-based approach. Boca Raton, FL: Informa Healthcare, 2006. ISBN: 9780415373920. \$159.95.
- PDR for herbal medicines. 4th ed. Montvale, NJ: Thomson Healthcare, 2007. ISBN: 9781563636783. \$59.95.
- Ross, Ivan A. Medicinal plants of the world: chemical constituents, traditional and modern medicinal uses. 2nd ed. Totowa, NJ: Humana, 2003-. ISBN: 9781588292810 (vol. 1); 9780896038776 (vol. 2); 9781588291295, (vol. 3). Vol. 1,3, \$135.00 each; vol. 2 \$129.00.
- Shapiro, Karen. Natural products: a case-based approach for health professionals. Washington, DC: American Pharmacists Association, 2006. ISBN: 9781582120690 \$45.95.
- *Tyler's honest herbal: a sensible guide to the use of herbs and related remedies. 4th ed. New York: Routledge, 2007. ISBN: 9780789007056. \$64.95.
- Weiss, Rudolf Fritz; and Fintelmann, Volker. Herbal medicine. 2nd rev. ed. Stuttgart, Germany: Thieme Medical Publishers, Inc., 2000. ISBN: 9783131263322. \$69.95.
- Wichtl, Max, ed. Herbal drugs and phytopharmaceuticals: a handbook for practice on a scientific basis. 3rd rev. ed. Boca Raton, FL: CRC Press, 2004. ISBN: 9780849319617. \$299.95.
- Wren, R. C.; Williamson, Elizabeth M. ; and Evans, Fred J. Potter's new cyclopaedia of botanical drugs and preparations. Rev. ed. Saffron Walden, England: C.W. Daniel Company, 1988. \$42.95.

B.2 - X.4.0 PHARMACOGNOSY AND NATURAL PRODUCTS - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

- Wagner, Hildebert H.; and Bladt, Sabine. Plant drug analysis: a thin layer chromatography atlas. 2nd ed. New York: Springer, 1996. ISBN: 9783540586760. \$299.00.

B.2 - X.7 PHARMACOGNOSY AND NATURAL PRODUCTS - WEB SITES

Dietary supplements labels database: brands, ingredients, and references. U. S. National Library of Medicine, 2007. Free. URL: <http://dietarysupplements.nlm.nih.gov/dietary/>

DrugDigest: herbs and supplements. Express Scripts, updated daily. URL: <http://www.drugdigest.org/DD/DVH/Herbs/0,3913,,00.html>

*Jellin, Jeff, ed. Natural medicines comprehensive database. Stockton, CA: Therapeutic Research Center, annual, 1999-. \$92.00 year; \$59.00 for single user, if ordered with Yearly Web or PDA; available in a variety of formats.

MedlinePlus. Herbs and supplements. National Library of Medicine. URL: http://www.nlm.nih.gov/medlineplus/druginfo/herb_All.html

National Institutes of Health. Office of Dietary Supplements. NIH. URL: <http://ods.od.nih.gov>

United States Pharmacopeial Convention. USP verified. USP. URL: <http://www.usp.org/USPVerified/>

B.3.0 PHARMACEUTICS

Allen, Loyd V., Jr. The art, science and technology of pharmaceutical compounding. 3rd ed. Washington: American Pharmacists Association, 2008. ISBN: 9781582121109. \$77.00.

Allen's Compounded formulations: the complete U. S. Pharmacist collection. Washington, DC: American Pharmacists Association, 2003. ISBN: 9781582120416. \$149.00.

*Ansel, Howard C.; Allen, Lloyd V., Jr.; and Popovich, Nicholas G. Pharmaceutical dosage forms and drug delivery systems. 8th ed. Philadelphia: Lippincott Williams & Wilkins, 2004. ISBN: 9780781746120. \$59.95.

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Augsburger, Larry L. ; and Hoag, Stephen W., eds. Pharmaceutical dosage forms: tablets. 3rd ed. New York: Informa Healthcare, 2008. ISBN: 9781420063455. \$549.95.

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B.3.a BIOPHARMACEUTICS AND PHARMACOKINETICS

Banga, Ajay K. Therapeutic peptides and proteins. 2nd ed. Lancaster, PA: Technomic, 2005. ISBN: 9780849316302. \$199.95.

Burton, Michael E.; Shaw, Leslie M.; Schentag, Jerome J., et al., eds. Applied pharmacokinetics and pharmacodynamics: principles of therapeutic drug monitoring. 4th ed. Philadelphia: Lippincott Williams & Wilkins, 2006. ISBN: 9780781744317. \$79.95.

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*Shargel, Leon; Wu-Pong, Susanna; and Yu, Andrew. Applied biopharmaceutics and pharmacokinetics. 5th ed. New York: McGraw-Hill, 2004. ISBN: 9780071375504. \$71.95.

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De Muth, James. Basic statistics and pharmaceutical statistical applications. 2nd ed. New York: Dekker, 2006. ISBN: 9780849337994. \$89.95.

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B.4.0 DRUG DESIGN, DISCOVERY, AND DEVELOPMENT

Bannwarth, Willi; and Hinzen, Berthold, eds. Combinatorial chemistry: from theory to application. 2nd ed. New York: Wiley-VCH, 2006. ISBN: 9783527306930. \$220; also available online.

Chorghade, Mukund S., ed. Drug discovery and development. New York: Wiley, 2006-07. ISBN: 9780471398462. 2-vol. set, \$180.00; vol. 1: Drug discovery, vol. 2: Drug development.

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Leff, Paul ed. Receptor-based drug design. New York: Dekker, 1998. ISBN: 9780824701628. \$209.95.

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Rahman, Atta-Ur; Choudhary, M. Iqbal; and Thomsen, William J. Bioassay techniques for drug development. San Diego: Taylor and Francis, 2001. ISBN: 9789058230515. \$99.95.

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Schoenwald, Ronald D. , ed. Pharmacokinetics in drug discovery and development. Boca Raton: CRC Press, 2002. ISBN: 9781566769730. \$79.95.

Seethala, Ramakrishna; and Fernandes, Prabhavathi, eds. Handbook of drug screening. New York: Marcel Dekker, 2001. ISBN: 9780824705626. \$229.95. 2nd ed. due 2009 (Informa Healthcare, ISBN: 1574448250), \$199.95.

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Sneider, Walter. Drug discovery: a history. New York: Wiley, 2005. ISBN: 9780471899808 \$70.00; also available online.

Wu-Pong, Susanna; and Rojanasakul, Yongyut, eds. Biopharmaceutical drug design and development. 2nd ed. Totowa, NJ: Humana, 2007. ISBN: 9781588297167 \$135.00.

B.4.0 - X.1.0 DRUG DESIGN, DISCOVERY, AND DEVELOPMENT - HISTORY

Werth, Barry. Billion-dollar molecule: one company's quest for the perfect drug. New York: Simon & Schuster, 1994. ISBN: 9780671510572 \$16.00.

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Charifson, Paul S., ed. Practical applications of computer-aided drug design. New York: Dekker, 1998. ISBN: 9780824798857. \$199.95.

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Agrawal, Madhu. Global competitiveness in the pharmaceutical industry: the effect of national regulatory, economic, and market factors. New York: Haworth Press, 1999. ISBN: 0789007150. \$69.95.

Cole, Graham. Pharmaceutical production facilities: design and applications. London, England: CRC Press, 1998. ISBN: 0748404384. \$138.00.

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- Repic, Oljan. Principles of process research and chemical development in the pharmaceutical industry. New York: Wiley, 1998. ISBN: 0471165166. \$84.95.
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- Wood, James P., ed. Containment in the pharmaceutical industry. New York: Dekker, 2001. ISBN: 0824703979. \$145.00.

B.5.0 - X.1.a INDUSTRIAL - CLASSICS

- Lachman, Leon; Lieberman, Herbert A.; and Kanig, Joseph L., eds. The theory and practice of industrial pharmacy. 3rd ed. Philadelphia: Lea & Febiger, 1986. o.p.

B.5.0 - X.2.b INDUSTRIAL - HANDBOOKS AND DICTIONARIES

*Sheskey, Paul J.; Rowe, Raymond C.; and Weller, Paul J., eds. Handbook of pharmaceutical excipients. 4th ed. Washington, DC: Pharmaceutical Press, 2003. ISBN: 1582120226. \$299.00.

B.5.0 - X.4.0 INDUSTRIAL - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

Riley, Christopher M.; and Rosanske, Thomas W. Development and validation of analytical methods. New York: Pergamon, 1996. ISBN: 0080427928. \$88.00.

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*Willig, Sidney H., ed. Good manufacturing practices for pharmaceuticals: a plan for total quality control from manufacturer to consumer. 5th ed. New York: Dekker, 2001. ISBN: 0824704258. \$135.00.

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Braun, David B. Pharmaceutical manufacturers: an international directory. Norwich, NY: William Andrews Publishing, 1995. ISBN: 0815513844. \$116.00.

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B.6.0 COSMETICS

Butler, Hilda. Poucher's perfumes, cosmetics and soaps. 10th ed. Dordrecht, the Netherlands: Springer, 2000. ISBN: 0751404799. \$255.60.

Elsner, Peter; and Maibach, Howard I. Cosmeceuticals and active cosmetics: drugs vs. cosmetics. 2nd ed. Boca Raton, FL: Taylor & Francis, 2005. ISBN: 0824759435. \$199.95.

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Michalun, Natalia; and Michalun, M. Varinia. Milady's skin care and cosmetic ingredients dictionary. 2nd ed. Albany, NY: Thomson Delmar Learning. ISBN: 1562536605. \$31.95.

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B.7.0 NUCLEAR AND RADIOPHARMACY

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Christian, Paul E.; Bernier, Donald R.; and Langan, James K., eds. Nuclear medicine and PET: technology and techniques. 5th ed. St. Louis: Mosby, 2003. ISBN: 0323019641. \$118.00.

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*Sampson, Charles B., ed. Textbook of radiopharmacy: theory and practice. 3rd ed. Amsterdam, the Netherlands: Gordon & Breach, 1999. ISBN: 905699154X. \$145.00.

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B.7.0 - X.2.b NUCLEAR AND RADIOPHARMACY - HANDBOOKS AND DICTIONARIES

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*Craig, Charles R.; and Stitzel, Robert E. Modern pharmacology with clinical applications. 6th ed. Philadelphia: Lippincott Williams & Wilkins, 2004. ISBN: 9780781737623. \$54.95.

Drummer, Olaf H. Forensic pharmacology of drugs of abuse. London, England: Arnold (dist. in US by Oxford Univ. Press), 2001. ISBN: 9780340762578. \$125.00.

Foreman, John C.; and Johansen, Torben. Textbook of receptor pharmacology. 2nd ed. Boca Raton, FL: CRC Press, 2002. ISBN: 9780849310294. \$119.95.

*Goodman & Gilman's the pharmacological basis of therapeutics. 11th ed. ed. New York: McGraw-Hill, 2006. ISBN: 9780071422802. \$155.00.

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Hollinger, Manfred A., ed. Introduction to pharmacology. 3rd ed. Boca Raton, FL: CRC Press, 2007. ISBN: 9781420047417. \$69.95.

Howland, Richard D.; Mycek, Mary Julia; Harvey, Richard A., et al., eds. Pharmacology. 3rd ed. Philadelphia: Lippincott Williams & Wilkins, 2006. ISBN: 9780781741187. \$52.95.

Kalant, Harold; Grant, Denis; and Mitchell, Jane, eds. Principles of medical pharmacology. 7th ed. Toronto, Canada: Elsevier, 2007. ISBN: 9780779699452. \$81.95.

*Katzung, Bertram G., ed. Basic & clinical pharmacology. 9th ed. London, England: McGraw-Hill, 2007. ISBN: 9780071451546. \$59.95.

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Page, Clive P.; Curtis, Michael J.; Sutter, Moreley C., et al. Integrated pharmacology. 3rd ed. Philadelphia: Mosby Elsevier, 2006. ISBN: 9780323040808. \$72.95.

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Reents, Stan. Sport and exercise pharmacology. Champaign, IL: Human Kinetics, 2000. ISBN: 9780873229371. \$57.00.

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B.8.0 - X.7 PHARMACOLOGY - WEB SITES

Clinical pharmacology. Gold Standard. price dependent on number of student FTE's; also available in handheld versions and on CD-ROM. URL: <http://www.gsm.com/>

B.8.a.0 TOXICOLOGY

Baselt, Randall C. Disposition of toxic drugs and chemicals in man. 7th ed. Foster City, CA: Biomedical Publications, 2004. ISBN: 9780962652363. \$185.95.

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*Dart, Richard C., ed. Medical toxicology. Philadelphia: Lippincott Williams & Wilkins, 2004. ISBN: 0781728452. \$210.00.

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Lu's basic toxicology: fundamentals, target organs, and risk assessment. 4th ed. New York: Taylor & Francis, 2002. ISBN: 0415248558. \$149.95.

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- Patty's industrial hygiene and toxicology*. New York: John Wiley, 2005. ISBN: 9780471700579. 13-vol set \$1113.50, also available networked for negotiable licensing.
- Proctor and Hughes' *chemical hazards of the workplace*. 5th ed. New York: Wiley, 2004. ISBN: 0471268836. \$188.50.
- Riviere, J. Edmond, ed. *Biological concepts and techniques in toxicology: an integrated approach*. New York: Taylor & Francis, 2006. ISBN: 082472979X. \$229.95.
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- Stelljes, Mark E. *Toxicology for nontoxicologists*. 2nd ed. Lanham, MD: Government Institutes, 2008. ISBN: 9780865871755. \$79.00.
- Stine, Karen E.; and Brown, Thomas M. *Principles of toxicology*. 2nd ed. Boca Raton, FL: CRC/Taylor & Francis, 2006. ISBN: 084932856X. \$79.95.
- Sullivan Jr, John B.; and Krieger, Gary R., eds. *Clinical environmental health and toxic exposures*. 2nd ed. Philadelphia: Lippincott Williams & Wilkins, 2001. ISBN: 9780683080278. \$210.00.
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B.8.a.0 - X.2.b TOXICOLOGY - HANDBOOKS AND DICTIONARIES

- *Derelanko, Michael J.; and Hollinger, Manfred A., eds. *Handbook of toxicology*. 2nd ed. Boca Raton, FL: CRC, 2002. ISBN: 0849303702I. \$199.95.
- Harris, Carson R., ed. *The toxicology handbook for clinicians*. Philadelphia: Mosby Elsevier, 2006. ISBN: 9781560537113. \$30.95.
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- Pohanish, Richard P.; and Sittig, Marshall, eds. *Sittig's handbook of toxic and hazardous chemicals and carcinogens*. 5th ed. Norwich, NY: William Andrew, 2008. ISBN: 9780815515531. \$595.00.
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products available to schools of pharmacy without charge when limited to teaching purposes, not clinical use. Available on CD-ROM and online.

B.8.a.0 - X.4.0 TOXICOLOGY - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

*Clarke's analysis of drugs and poisons: in pharmaceuticals, body fluids and post-mortem material. 3rd ed. London, England: Pharmaceutical Press, 2004. ISBN: 0853694737. \$650.00; \$950.00 with CD-ROM.

Jacobson-Kram, David; and Keller, Kit A., eds. Toxicological testing handbook: principles, applications, and data interpretation. 2nd ed. New York: Informa Healthcare, 2006. ISBN: 0849338581. \$229.95.

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B.8.a.0 - X.6.1.0 TOXICOLOGY - ONLINE RESOURCES

RTECS: Registry of toxic effects of chemical substances. National Institute for Occupational Safety and Health. Available in a variety of formats and at various prices. URL: <http://www.cdc.gov/niosh/rtecs/>

B.8.a.1 DRUG ADVERSE REACTIONS, INTERACTIONS, AND SIDE EFFECTS

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*Drug interaction facts. St. Louis: Facts and Comparisons, loose-leaf updated quarterly. \$235.00 (renewal \$209.00). Also available in other formats.

*Hansten and Horn's drug interactions analysis and management. 3rd ed. Philadelphia: Lippincott Williams & Wilkins, 2008. ISBN: 9781574392869. \$98.00. Also available as a loose-leaf update product from Wolters Kluwer/Facts & Comparisons.

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Litt's drug eruption reference manual: including drug interactions. 13th ed. New York: Taylor & Francis, 2007. ISBN: 9780415413534. \$269.95.

The Medical Letter adverse drug interactions program [software]. Medical Letter, updated every 6 months. \$98.00. Also available for PDA. URL: <http://medlet-best.securesites.com/html/software.htm>

*Meyler's side effects of drugs: the international encyclopedia of adverse drug reactions and interactions. 15th rev. ed. Amsterdam, the Netherlands: Elsevier Science, 2006. ISBN: 9780444509987. \$935.00.

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*Pronsky, Zaneta M. Food-medication interactions. 15th ed. Birchrunville, PA: Food-Medication Interactions, 2008. ISBN: 9780971089631. \$29.95.

*Shepard, Thomas H.; and Lemire, Ronald J. Catalog of teratogenic agents. 12th ed. Baltimore: Johns Hopkins University, 2007. ISBN: 9780801887420. \$240.00.

Stockley's drug interactions. 8th ed. London, England: Pharmaceutical Press, 2007. ISBN: 9780853697565. \$350.00 with CD.

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B.8.a.1-X.1.a DRUG ADVERSE REACTIONS, INTERACTIONS, AND SIDE EFFECTS - CLASSICS

Davies's textbook of adverse drug reactions. 5th ed. New York: Oxford, 1999. ISBN: 0412824809. o.p.

B.8.a.1 - X.7 DRUG ADVERSE REACTIONS, INTERACTIONS, AND SIDE EFFECTS - WEB SITES

Database of antiretroviral drug interactions. Center for HIV Information, University of California, San Francisco. URL: <http://hivinsite.ucsf.edu/InSite?page=ar-00-02>

Foucher, Pascal; and Camus, Philippe. Pneumotox online: the drug-induced lung diseases. Dijon, France: Department of Pulmonary Diseases and Intensive Care Unit, University Hospital, Dijon, France. URL: <http://www.pneumotox.com/>

QT drug lists by risk groups. Center for Education and Research on Therapeutics, The Critical Path Institute, University of Arizona. URL: <http://www.arizonacert.org/medical-pros/drug-lists/drug-lists.cfm>

B.8.b VETERINARY PHARMACOLOGY

Adams, H. Richard. Veterinary pharmacology and therapeutics 8th ed. Ames, IA: Iowa State University, 2001. ISBN: 0813817439. \$154.99.

Baggot, J. Desmond. The physiological basis of veterinary clinical pharmacology. Ames, IA: Iowa State University Press, 2001. ISBN: 0632057440. \$114.99.

Boothe, Dawn Merton. Small animal clinical pharmacology and therapeutics. Philadelphia: Saunders, 2001. ISBN: 0721643647. \$92.00.

Crowell-Davis, Sharon L. Veterinary psychopharmacology. Ames, IA: Blackwell Pub. Professional, 2006. ISBN: 0813808294. \$79.95.

Kayne, Stephen B. Veterinary pharmacy. London, England: Pharmaceutical Press, 2004. ISBN: 0853695342. \$59.95.

Maddison, Jill E.; Page, Stephen W.; and Church, David, eds. Small animal clinical pharmacology. Philadelphia: Saunders, 2002. ISBN: 0702025739. \$95.00.

*Merck veterinary manual. 9th ed. Rahway, NJ: Merck, 2005. ISBN: 0911910506. \$45.00.

Riviere, J. Edmond. Comparative pharmacokinetics: principles, techniques, and applications. Ames, IA: Iowa State University Press, 1999. ISBN: 0813829313. \$94.99.

Short, Charles E. Principles of veterinary pharmacology. Philadelphia: Lippincott Williams & Wilkins, 2003. ISBN: 0781736536. \$119.99.

B.8.b - X.2.b VETERINARY PHARMACOLOGY - HANDBOOKS AND DICTIONARIES

Papich, Mark G., ed. Saunders handbook of veterinary drugs. 2nd ed. Philadelphia: Saunders, 2006. ISBN: 0721673872. \$70.00.

Plumb, Donald C., ed. Veterinary drug handbook. 5th ed. Ames, IA: Iowa State University, 2005. ISBN: 0813824427. \$85.00 CD-ROM available.

C.0 - X.2.b MEDICAL SCIENCES (SCIENCES BASIC TO MEDICINE) - HANDBOOKS AND DICTIONARIES

*Dorland's illustrated medical dictionary. 31st ed. Philadelphia: Saunders, 2007. ISBN: 9781416023647. \$49.95.

*Jablonski, Stanley, ed. Dictionary of medical acronyms and abbreviations. 5th ed. Philadelphia: Hanley & Belfus, 2005. ISBN: 1560536322. \$31.95.

Stedman's medical dictionary. 28th ed. Philadelphia: Lippincott Williams & Wilkins, 2005. ISBN: 0781733901. \$49.95.

C.0 - X.6.1.c MEDICAL SCIENCES (SCIENCES BASIC TO MEDICINE) - ONLINE ABSTRACTS AND INDEXES

AMED: allied & complementary medicine database. Health Care Information Service of the British Library, updated monthly. Available in a variety of formats and at various prices. URL: <http://www.bl.uk/collections/health/amed.html>

CINAHL. CINAHL Information Systems, updated monthly. Available in a variety of formats and at various prices. URL: <http://www.cinahl.com/index.html>

EMBASE. Elsevier, updated weekly. Available in a variety of formats and at various prices URL: <http://www.elsevier.com>

MEDLINE. U.S. National Library of Medicine, updated daily. Available in a variety of formats and at various prices. URL: <http://www.nlm.nih.gov/pubs/factsheets/medline.html>

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Fox, Stuart Ira. Human physiology. 9th ed. New York: McGraw Hill, 2006. ISBN: 0073040762. \$138.13.

*Guyton, Arthur C.; and Hall, John E. Textbook of medical physiology. 11th ed. Philadelphia: Elsevier Science, 2006. ISBN: 9780721602400. \$103.00.

Kelly, Laurie. Essentials of human physiology for pharmacy 2nd ed. Boca Raton, FL: CRC Press, 2009. ISBN: 9781420043907. \$79.95.

Moore, Keith L.; and Dalley, Arthur F., II. Clinically oriented anatomy. 5th ed. Philadelphia: Lippincott Williams & Wilkins, 2005. ISBN: 9780781736398. \$74.95.

Netter, Frank H. Atlas of human anatomy. 4th ed. Philadelphia: Saunders, 2006. ISBN: 9781416033851. \$74.95.

*Standring, Susan, ed. Gray's anatomy: the anatomical basis of clinical practice. 39th ed. Edinburgh, Scotland: Elsevier Science, 2005. ISBN: 9780443066764. \$185.00; \$245.00 for book with online e-access.

D.0 - X.1.a CLINICAL SCIENCES - CLASSICS

*Magalini, Sergio I.; and Magalini, Sabina C., eds. Dictionary of medical syndromes. 4th ed. Philadelphia: Lippincott Williams & Wilkins, 1997. ISBN: 0397584180. \$129.00.

D.0 - X.7 CLINICAL SCIENCES - WEB SITES

Medscape. New York, NY: Medscape, 1996-. URL: <http://www.medscape.com>

D.1 PATHOPHYSIOLOGY

*Kumar, Vinay; Abbas, Abdul K.; and Fausto, Nelson, eds. Robbins and Cotran pathologic basis of disease. 7th ed. Philadelphia: Elsevier Saunders, 2005. ISBN: 9780721601878. \$122.00. New edition due 6/09.

*Lee, Mary, ed. Basic skills in interpreting laboratory data. 4th ed. Bethesda: American Society of Health-System Pharmacists, 2009. ISBN: 9781585281800. \$74.00.

Mcpherson, Richard A., ed. Henry's clinical diagnosis and management by laboratory methods. 21 ed. Philadelphia: Saunders, 2007. ISBN: 9781416002871. \$140.00.

D.2 PATIENT PHYSICAL ASSESSMENT

- *Jarvis, Carolyn. Physical examination and health assessment. 5th ed. St. Louis: Saunders, 2008. ISBN: 9781416032434. \$92.95.
- Seidel, Henry M. Mosby's guide to physical examination. 5th ed. St. Louis: Mosby, 2003. ISBN: 0323016804. \$76.95.
- *Swartz, Mark H. Textbook of physical diagnosis: history and examination. 5th ed. Philadelphia: Saunders Elsevier, 2006. ISBN: 072169411X. \$82.00.

D.3.0 THERAPEUTICS

- *ACP medicine. New York: WebMD Professional Publishing, 2007. ISBN: 9781550093896. \$349.00. Also available in a variety of formats.
- Aronoff, George, ed. Drug prescribing in renal failure: dosing guidelines for adults. 4th ed. Philadelphia: American College of Physicians, 1999. ISBN: 0943126762. \$35.00.
- Braunwald's heart disease: a textbook of cardiovascular medicine. 7th ed. Philadelphia: Saunders, 2005. ISBN: 072160479X. \$169.00.
- Brenner & Rector's the kidney. 5th ed. Philadelphia: Saunders, 2004. ISBN: 0721601642. 2-vol. set, \$399.00.
- Campbell's urology. 8th ed. Philadelphia: Saunders, 2002. ISBN: 0721690580. 4-vol. set, \$450.00.
- *Cecil textbook of medicine. 22nd ed. Philadelphia: Saunders, 2004. ISBN: 072167996X. \$129.00.
- *Chisholm-Burns, Marie A.; Wells, Barbara G.; Schwinghammer, Terry L., et al., eds. Pharmacotherapy: principles & practice. New York: McGraw-Hill Medical, 2008. ISBN: 9780071448802 \$125.00.
- *Conn's current therapy. Philadelphia: Saunders, annual. 1984-. ISBN: 1416023763. 2006, \$69.95.
- *Current medical diagnosis & treatment. 45th ed. New York: McGraw-Hill/Appleton & Lange. ISBN: 0071454101. \$59.95.
- *Dipiro, Joseph; Talbert, Robert L.; Yee, Gary C., et al., eds. Pharmacotherapy: a pathophysiologic approach. 6th ed. New York: McGraw-Hill, 2005. ISBN: 0071416137. \$165.00.
- Dolin, Raphael; Masur, Henry; and Saag, Michael S., eds. AIDS therapy. 2nd ed. Philadelphia: Churchill Livingstone, 2003. ISBN: 0443065942. \$179.00.
- Ellenberg and Rifkin's diabetes mellitus. 6th ed. New York: McGraw-Hill, 2003. ISBN: 0838521789. \$235.00.
- Fitzpatrick's dermatology in general medicine. 7th ed. New York: McGraw-Hill, 2008. ISBN: 9780071466905. 2 vol. set, \$399.00.

Habif, Thomas P. Clinical dermatology: a color guide to diagnosis and therapy. 4th ed. Edinburgh, Scotland: Mosby, 2003. ISBN: 0323013198. \$155.00.

*Harrison's principles of internal medicine. 15th ed. New York: McGraw-Hill, 2005. ISBN: 0078642388. \$155.

*Helms, Richard A.; and Quan, David J., eds. Textbook of therapeutics: drug and disease management. 8th ed. Philadelphia: Lippincott Williams & Wilkins, 2006. ISBN: 0781757347. \$165.00.

*Koda-Kimble, Mary Anne; and Young, Lloyd Yee, eds. Applied therapeutics: the clinical use of drugs. 9th ed. Philadelphia: Lippincott Williams & Wilkins, 2009. ISBN: 9780781765558. \$179.00.

*Mandell, Douglas, and Bennett's principles and practice of infectious diseases. 6th ed. St. Louis: Churchill Livingstone, 2005. ISBN: 0443066434. 2-vol. set, \$329.00.

*The Merck manual of diagnosis and therapy. 18th ed. Rahway, NJ: Merck, 2006. ISBN: 0911910107. \$55.00.

Rubin, Peter C. Prescribing in pregnancy. 3rd ed. London, England: BMJ, 2000. ISBN: 0727914499. \$36.95.

Schwinghammer, Terry L., ed. Pharmacotherapy casebook: a patient-focused approach. 6th ed. New York: McGraw-Hill, 2005. ISBN: 0071433600. \$46.95.

Stone, C. Keith; and Humphries, Roger L., eds. Current emergency diagnosis and treatment. 5th ed. New York: McGraw-Hill, 2004. ISBN: 0838514502. \$64.95.

Warrell, David A.; Cox, Timothy M.; Firth, John D., et al., eds. Oxford textbook of medicine. 4th ed. New York: Oxford, 2005. ISBN: 0192621408. 3-vol. set, \$295.00.

Williams obstetrics. 22nd ed. New York: McGraw-Hill, 2005. ISBN: 0071413154. \$145.00.

D.3.0 - X.2.0 THERAPEUTICS - INFORMATICS

ICD-9-CM 2007 expert for hospitals: international classification of diseases, 9th revision, clinical modification. Salt Lake City, Utah: Ingenix, 2007. ISBN: 9781563379154. Vol. 1-3; \$97.95. Also available in a variety of other formats.

D.3.0 - X.2.b THERAPEUTICS - HANDBOOKS AND DICTIONARIES

ImmunoFacts: vaccines and immunologic drugs. St. Louis: Facts and Comparisons, annual. 1993-. ISBN: 9781574392517. 2007, \$79.95.

D.3.0 - X.4.0 THERAPEUTICS - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

National Library of Medicine. ClinicalTrials.gov. NLM, 2000-. URL: <http://clinicaltrials.gov/>

D.3.a GERIATRICS

Delafuente, Jeffrey C.; and Stewart, Ronald B., eds. Therapeutics in the elderly. 3rd ed. Cincinnati: Harvey Whitney, 2001. ISBN: 092937522x. \$134.00.

Hazzard, William R.; Blass, John P.; Halter, Jeffrey B., et al., eds. Principles of geriatric medicine and gerontology. 5th ed. New York: McGraw-Hill, 2003. ISBN: 0780071402163. \$210.00. 6th ed. due 03/09.

Kane, Robert L.; Ouslander, Joseph G.; Abrass, Itamar B., et al. Essentials of clinical geriatrics. 6th ed. New York: McGraw-Hill, 2009. ISBN: 9780071498227. \$54.95.

D.3.a - X.2.b GERIATRICS - HANDBOOKS AND DICTIONARIES

Semla, Todd P.; Beizer, Judith L.; and Higbee, Martin D. , eds. Geriatric dosage handbook. 14th ed. Hudson, OH: Lexi-Comp, 2009. ISBN: 9781591952510. \$52.95. Also available online, PDA, and on-desktop.

D.3.a - X.7 GERIATRICS - WEB SITES

Merck manual of geriatrics. Whitehouse Station, NJ: Merck.
URL: <http://www.merck.com/mkgr/mmg/home.jsp>

D.3.b NEUROLOGY

Adam's & Victor's principles of neurology. 8th ed. New York: McGraw-Hill, 2005. ISBN: 007141620X. \$129.00.

Hefti, Franz F. Drug discovery for nervous system diseases. New York: Wiley, 2005. ISBN: 0471465631. \$99.95.

Levy, Rene H.; Mattson, Richard H.; Meldrum, Brian S., et al., eds. Antiepileptic drugs. 5th ed. Philadelphia: Lippincott Williams & Wilkins, 2002. ISBN: 0781723213. \$179.00.

D.3.b - X.2.b NEUROLOGY - HANDBOOKS AND DICTIONARIES

Omoigui, Sota. Pain drugs handbook. 2nd ed. Malden, MA: State-of-the-Art Technologies, 1999. ISBN: 0632044195. \$49.00.

D.3.c NUTRITION AND NUTRACEUTICALS

Bowes & Church's food values of portions commonly used. 18th ed. Philadelphia: Lippincott Williams & Wilkins, 2004. ISBN: 0781744296. \$62.95.

Cadenas, Enrique; and Packer, Lester, eds. Handbook of antioxidants. 2nd ed. New York: Dekker, 2002. ISBN: 0824705475. \$214.50.

Krause's food, nutrition & diet therapy. 11th ed. Philadelphia: Saunders, 2003. ISBN: 0721697844. \$89.95.

Williams, Sue Rodwell. Essentials of nutrition and diet therapy. 8th ed. St. Louis: Mosby, 2002. ISBN: 0323003982. \$61.95.

Wolinsky, Ira; and Williams, Louis, eds. Nutrition in pharmacy practice. Washington, DC: American Pharmacists Association, 2002. ISBN: 1582120234. \$59.00.

D.3.c - X.7 NUTRITION AND NUTRACEUTICALS - WEB SITES

International bibliographic information on dietary supplements (IBIDS). Office of Dietary Supplements, National Institutes of Health, updated quarterly. URL:
http://dietary-supplements.info.nih.gov/Health_Information/IBIDS.aspx

D.3.d ONCOLOGY AND HEMATOLOGY

Abeloff's clinical oncology. 4th ed. New York: Churchill Livingstone, 2008. ISBN: 9780443066948. \$279.00.

*Devita, Hellmann, and Rosenberg's cancer: principles and practice of oncology. 8th ed. Philadelphia: Lippincott Williams & Wilkins, 2008. ISBN: 9780781772075. 2-vol. set, \$379.00.

Haskell, Charles M., ed. Cancer treatment. 5th ed. Philadelphia: Saunders, 2001. ISBN: 9780721678337. \$229.00.

Hoffman, Ronald; Furie, Bruce; Mcglave, Philip, et al., eds. Hematology: basic principles and practices. 5th ed. Philadelphia: Churchill-Livingstone, 2009. ISBN: 9780443067150. \$269.00.

Mendelsohn, John; Howley, Peter; Israel, Mark, et al., eds. The molecular basis of cancer. 3rd ed. Philadelphia: Saunders, 2008. ISBN: 9781416037033. \$179.00.

Perry, Michael C. Chemotherapy source book. 4th ed. Philadelphia: Lippincott Williams & Wilkins, 2007. ISBN: 9780781773287. \$99.00.

Williams hematology. 7th ed. New York: McGraw-Hill, 2006. ISBN: 0071435913. \$215.00.

Wintrobe's clinical hematology. 12th ed. Philadelphia: Lippincott Williams & Wilkins, 2008. ISBN: 9780781765077. 2-vol. set, \$329.00.

D.3.d - X.1.a ONCOLOGY AND HEMATOLOGY - CLASSICS

*Magalini, Sergio I.; and Magalini, Sabina C., eds. Dictionary of medical syndromes. 4th ed. Philadelphia: Lippincott Williams & Wilkins, 1997. ISBN: 0397584180. \$99.00.

D.3.e PARENTERALS

Akers, Michael J.; Larrimore, Daniel S.; and Guazzo, Dana Morton, eds. Parenteral quality control: sterility, pyrogen, particulate and package integrity testing. 3rd ed. New York: Dekker, 2003. ISBN: 0824708857. \$165.00.

*King guide to parenteral admixtures. 35th ed. St. Louis: King Guide, 2006. ISBN: 0978638603. \$179.00.
Also available in loose-leaf form, with updates, on CD-ROM, and on the Internet.

*Phelps, Stephanie J.; and Hak, Emily B., eds. Teddy bear book: pediatric injectable drugs. 8th ed.
Bethesda: American Society of Health-System Pharmacists, 2007. ISBN: 9781585281589. \$94.00.

Phillips, Lynn Dianne. Manual of I.V. therapeutics. Philadelphia: F.A. Davis, 2005. ISBN: 9780803613683.
\$37.95.

Pichard, Claude; and Kudsk, Kenneth A. From nutrition support to pharmacologic nutrition in the ICU. 2nd
ed. New York: Springer, 2002. ISBN: 0721681204. \$64.95.

*Plumer's principles and practice of intravenous therapy. 8th ed. Philadelphia: Lippincott Williams & Wilkins,
2006. ISBN: 0781759447. \$49.95.

Rombeau, John L.; and Rolandelli, Rolando H., eds. Clinical nutrition: parenteral nutrition. 3rd ed.
Philadelphia: Saunders, 2000. ISBN: 0721681204. \$149.00.

*Trissel, Lawrence A., ed. Handbook of injectable drugs. 14th ed. Bethesda: American Society of
Health-System Pharmacists, 2006. ISBN: 9781585281503. \$234.00.

D.3.f PEDIATRICS

Burg, Frederic B.; Ingelfinger, Julie R.; Richard, A. Polin, et al., eds. Current pediatric therapy. 18th ed.
Philadelphia: Saunders, 2006. ISBN: 0721605494. \$109.00.

*Nelson textbook of pediatrics. 17th ed. Philadelphia: Saunders, 2003. ISBN: 0721695566. \$129.00.

Pagliaro, Louis A.; and Pagliaro, Ann M. Problems in pediatric drug therapy. 4th ed. Hamilton, IL: American
Pharmacists Association, 2002. \$39.00.

Schardein, James L., ed. Chemically induced birth defects. 3rd ed. New York: Dekker, 2000. ISBN:
0824702654. \$195.00.

D.3.f - X.2.b PEDIATRICS - HANDBOOKS AND DICTIONARIES

The Harriet Lane handbook: a manual for pediatric house officers. 17th ed. St. Louis: Elsevier Mosby, 2005.
ISBN: 0323029175. \$49.95.

Nahata, Milap C.; and Hipple, Thomas F., eds. Pediatric drug formulations. 5th ed. Cincinnati: Harvey
Whitney, 2003. ISBN: 0929375254. \$104.56.

Taketomo, Carol K.; Hodding, Jane H.; and Kraus, Donna M., eds. Pediatric dosage handbook. 11th ed.
Hudson, OH: Lexi-Comp, 2004. ISBN: 1591950929. \$46.95. Also available online and in CD-ROM
and handheld versions.

Zenk, Karin E.; Sills, Jack H.; and Koeppel, Robin M., eds. Neonatal medications & nutrition: a
comprehensive guide. 3rd ed. Santa Rosa, CA: NICU INK, 2003. ISBN: 9781887571104. \$79.34.

D.3.g PSYCHIATRY

Diagnostic and statistical manual of mental disorders : DSM-IV-TR. 4th rev. ed. Washington, D.C.: American Psychiatric Association, 2000. ISBN: 0890420246. \$89.00. Also available in paperback.

*Kaplan & Sadock's comprehensive textbook of psychiatry. 8th ed. Philadelphia: Lippincott Williams & Wilkins, 2005. ISBN: 0781734347. 2-vol. set, \$279.00.

Hadad, Peter; Dursun, Serdar; and Deakin, Bill. Adverse syndromes and psychiatric drugs: a clinical guide. Oxford, England: Oxford, 2004. ISBN: 9780198527480. \$49.95.

Julien, Robert M. A primer of drug action: a concise, nontechnical guide to the actions, uses, and side effects of psychoactive drugs. 10th ed. New York: Worth Publishers, 2001. ISBN: 9780716706151. \$51.95.

Keane, Terence Martin; Foa, Edna B.; and Friedman, Matthew J., eds. Effective treatments for PTSD: practice guidelines from the International Society for Traumatic Stress Studies. New York: Guilford Press, 2004. ISBN: 9781593850142. \$28.00.

*Schatzberg, Alan F.; and Nemeroff, Charles B., eds. The American Psychiatric Press textbook of psychopharmacology. 3rd ed. Washington: American Psychiatric Press, 2004. ISBN: 1585620602. \$178.00.

D.3.g - X.1.0 PSYCHIATRY - HISTORY

Musto, David F. Drugs in America: a historical reader. New York: New York University Press, 2002. ISBN: 081475662X. \$65.00.

D.3.g - X.2.b PSYCHIATRY - HANDBOOKS AND DICTIONARIES

Bezchlibnyk-Butler, Kalyna Z.; and Jeffries, J. Joel, eds. Clinical handbook of psychotropic drugs. 13th ed. Kirkland, WA: Hogrefe & Huber Publishers. ISBN: 088937273X. \$54.95.

*Fuller, Matthew A.; and Sajatovic, Martha. Psychotropic drug information handbook. 4th ed. Hudson, OH: Lexi-Comp, Inc., 2003. ISBN: 1591950279. \$34.95.

Jacobson, Sandra A.; Pies, Ronald W.; and Greenblatt, David J., eds. Handbook of geriatric psychopharmacology. Washington, D.C.: American Psychiatric Press, 2002. ISBN: 0880488239. \$54.00.

D.3.h SUBSTANCE ABUSE

Brick, John, ed. Handbook of medical consequences of alcohol and drug abuse. 2nd ed. Binghamton, NY: Haworth Press, 2008. ISBN: 9780789035745. \$149.95. Also available in paperback.

Karch's pathology of drug abuse. 3rd ed. Boca Raton, FL: CRC, 2003. ISBN: 9780849303432. \$129.95.

Pagliaros' comprehensive guide to drugs and substances of abuse. Washington, DC: American Pharmacists Association, 2004. ISBN: 9781582120669. \$105.00.

Galanter, Marc; and Kleber, Herbert D., eds. American Psychiatric Publishing textbook of substance abuse treatment. 4th ed. Washington, DC: American Psychiatric Publishing, 2008. ISBN: 9781585622764. \$165.00.

Graham, Allan W.; Schultz, Terry K.; Mayo-Smith, Michael F., et al., eds. Principles of addiction medicine. 3rd ed. Chevy Chase, MD: American Society of Addiction Medicine, 2003. ISBN: 9781880425046. \$203.95.

Liska, Ken. Drugs and the human body: with implications for society. 8th ed. Upper Saddle River, NJ: Pearson Prentice Hall, 2008. ISBN: 9780132447133. \$79.00.

Lowinson, Joyce H.; Ruiz, Pedro; Millman, Robert B., et al., eds. Substance abuse: a comprehensive textbook. 4th ed. Philadelphia: Lippincott Williams & Wilkins, 2005. ISBN: 9780781734745. \$222.95.

Ries, Richard K.; Fiellin, David A.; Miller, Shannon, et al., eds. Principles of addiction medicine. Philadelphia: Lippincott Williams and Wilkins, 2009. ISBN: 9780781774772. \$199.00 (due 03/2009).

Rotgers, Frederick; Morgenstern, Jon; and Walters Scott, T., eds. Treating substance abuse: theory and technique. 2nd ed. New York: Guilford, 2003. ISBN: 9781593853747. \$50.00.

D.3.h - X.2.b SUBSTANCE ABUSE - HANDBOOKS AND DICTIONARIES

Karch, Steven B., ed. Drug abuse handbook. 2nd ed. Boca Raton, FL: CRC/Taylor and Francis, 2007. ISBN: 9780849316906. \$189.95.

Perkinson, Robert R.; and Jongsma, Arthur E., Jr. The addiction treatment planner. 3rd ed. Hoboken, NJ: Wiley, 2006 ISBN: 9780471725442. \$55.00.

Rastegar, Darius A.; and Fingerhood, Michael I. Addiction medicine: an evidence-based handbook. Philadelphia: Lippincott Williams and Wilkins, 2005. ISBN: 9780781761543. \$59.95.

Winger, Gail; Woods, James H.; and Hofmann, Frederick G. Handbook on drug and alcohol abuse: the biomedical aspects. 4th ed. New York: Oxford, 2004. ISBN: 9780195172782. \$65.00 Also available in paperback.

D.3.h - X.7 SUBSTANCE ABUSE - WEB SITES

National Clearinghouse on Alcohol and Drug Information. U.S. Substance Abuse and Mental Health Services Administration. URL: <http://ncadi.samhsa.gov/about/aboutncadi.aspx>

National Institute on Alcohol Abuse and Alcoholism. National Institute on Alcohol Abuse and Alcoholism. URL: <http://www.niaaa.nih.gov/>

National Institute on Drug Abuse. National Institute on Drug Abuse. URL: <http://www.nida.nih.gov/NIDAHome.html>

D.3.i SURGERY

Donnelly, Andrew J.; Baughman, Verna L.; Gonzales, Jeffrey P., et al. Anesthesiology & critical care drug handbook : including select disease states & perioperative management. 8th ed. Hudson, OH: Lexi-Comp, 2005. ISBN: 9781591952299. \$44.95.

Evers, Alex S.; and Maze, Mervyn. Anesthetic pharmacology : physiologic principles and clinical practice : a companion to Miller's Anesthesia. New York: Churchill Livingstone, 2004. ISBN: 9780443065798. \$115.00.

Miller, Ronald D. , ed. Miller's anesthesia. 6th ed. New York: Elsevier/Churchill Livingstone, 2005. ISBN: 9780443066184. \$329.00. Two-volume set with video clips on accompanying CD-ROM. Also available in online version, with continuous updates. Price updated 12-08, bn.

Stoelting, Robert K.; and Hillier, Simon C. Pharmacology and physiology in anesthetic practice. 4th ed. Philadelphia: Lippincott, 2006. ISBN: 9780781754699. \$175.00.

D.4 ALTERNATIVE MEDICINE

Burton Goldberg Group, ed. Alternative medicine: the definitive guide. 2nd ed. Berkeley, CA: Celestial Arts, 2002. ISBN: 0587611406. \$59.95.

Collinge, William, ed. The American Holistic Health Association complete guide to alternative medicine. New York: Warner, 1996. ISBN: 9780446672580. \$22.99.

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Freeman, Lynda W., ed. Mosby's complementary & alternative medicine: a research-based approach. 2nd ed. St. Louis: Mosby, 2004. ISBN: 0323026265. \$59.95.

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National Institutes of Health. National Center for Complementary and Alternative Medicine. Bethesda, MD: National Institutes of Health. URL: <http://nccam.nih.gov/>

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E.0 - X.6.1.c PHARMACEUTICAL CARE (SOCIAL, BEHAVIORAL, AND ADMINISTRATIVE PHARMACY) - ONLINE ABSTRACTS AND INDEXES

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E.3.0 PHARMACISTS' PROFESSIONAL DEVELOPMENT

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E.3.b EDUCATION

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E.3.b - X.1.0 EDUCATION - HISTORY

- Pharmacy in the 21st century. Conference on pharmacy in the 21st century, October 11-14, 1989. Alexandria, VA: American Association of Colleges of Pharmacy, 1989. \$50.00.

E.3.b - X.1.a EDUCATION - CLASSICS

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E.3.b - X.5 EDUCATION - DIRECTORIES

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E.3.b - X.7 EDUCATION - WEB SITES

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E.4.0 PROFESSIONAL PRACTICE

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E.4.0 - X.3 PROFESSIONAL PRACTICE - LAWS, LEGISLATION, REGULATIONS, AND ETHICS

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E.4.a COMMUNITY PHARMACY

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E.4.a - X.7 COMMUNITY PHARMACY - WEB SITES

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E.4.b HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY

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E.4.b - X.3 HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY - LAWS, LEGISLATION, REGULATIONS, AND ETHICS

*Best practices for hospital & health-system pharmacy : position & guidance documents of ASHP. Bethesda: American Society of Health-System Pharmacists, 2008. ISBN: 9781585282005. 2007-08, \$71.00.

E.4.b - X.4.a HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY - QUALITY ASSURANCE

Coe, Charles P.; and Uselton, John P. Assuring continuous compliance with Joint Commission standards: a pharmacy guide. 7th ed. Bethesda: American Society of Health-System Pharmacists, 2008. ISBN: 9781585281718. \$120.00.

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E.4.b - X.5 HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY - DIRECTORIES

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E.4.b - X.7 HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY - WEB SITES

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E.4.c HOME HEALTH CARE

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E.4.c-X.1.a HOME HEALTH CARE - CLASSICS

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E.4.c – X.7 HOME HEALTH CARE – WEB SITES

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E.4.d MANAGED CARE

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E.4.d - X.1.a MANAGED CARE - CLASSICS

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E.4.d - X.7 MANAGED CARE - WEB SITES

*Academy of Managed Care Pharmacy. Academy of Managed Care Pharmacy, 1989-. URL: <http://www.amcp.org/>

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