

ODS DSRP 2022 - Reading Materials and Resources

Joyce M. Merkel, M.S., R.D.

Articles

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Note: supplementary table includes an excellent compilation of botanical databases
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- **Sorokina M, Steinbeck C. **Review on natural products databases: where to find data in 2020**. *J Cheminform*. 2020 Apr 3;12(1):20. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7118820/>

Bibliographic Databases

- **PubMed/MEDLINE**, National Library of Medicine, NIH, HHS. <http://www.ncbi.nlm.nih.gov/pubmed>
Citations for biomedical literature from MEDLINE, life science journals, and online books.
- **Evidence-Based Medicine: Literature Reviews**. NIH, NCCIH
<https://www.nccih.nih.gov/health/providers/litreviews> *Preformed PubMed search strategies for a variety of dietary supplement ingredients and botanicals searches for randomized controlled trials, systematic reviews/meta-analyses, and herb-drug interactions.*
- **AGRICOLA** (AGRICultural OnLine Access), National Agricultural Library, USDA.
<http://agricola.nal.usda.gov/> *Citations to agricultural literature.*
- **AGRIS** (International Information System for the Agricultural Sciences and Technology) FAO.
<http://agris.fao.org/> *Global public domain database with bibliographical records on agricultural science and technology.*

Current/Ongoing Research Databases

- **CARDS** (Computer Access to Research on Dietary Supplements).
http://ods.od.nih.gov/Research/CARDS_Database.aspx
Database of federally funded research projects pertaining to dietary supplements.
- **Clinicaltrials.gov**. http://clinicaltrials.gov/ct2/search/browse?brwse=diet_cat) <http://clinicaltrials.gov/>
Registry and results database of federally and privately supported clinical trials conducted in the US and worldwide. Use "Studies by Topic" tab to search by dietary supplement category or specific dietary supplement.
- **CRIS** (Current Research Information System). <https://cris.nifa.usda.gov/>
Documentation and reporting for ongoing agricultural, food science, human nutrition, and forestry research, education and extension activities for the United States Department of Agriculture.
- **NIHReporter**. <http://projectreporter.nih.gov/reporter.cfm>
Electronic tool to search repository of NIH-funded research projects and access publications and patents resulting from NIH funding.
- **ISRCTN Registry**. <https://www.isrctn.com/> *Primary clinical trial registry recognized by WHO and ICMJE.*

Monographs/Evidence Reports/Fact Sheets

- Office of Dietary Supplements, NIH. Dietary Supplement Fact Sheets.
<http://ods.od.nih.gov/factsheets/list-all/>
Evidence-based summaries for health professionals and consumers on specific vitamins, minerals, herbs, and other dietary supplements. Fact sheets cover health effects, safety, recommended amounts, interactions with medicines, and other topics.
- Agency for Healthcare Research and Quality (AHRQ). EPC Evidence-Based Reports
<https://www.ahrq.gov/research/findings/evidence-based-reports/index.html>
Evidence reports on dietary supplements.
- Australian Institute of Sport (AIS) Sports Supplement Program.
<https://www.ais.gov.au/nutrition/supplements>
ABCD Classification system ranks sports foods and supplement ingredients into 4 groups according to scientific evidence and other practical considerations that determine whether a product is safe, permitted and effective in improving sports performance.
- Cochrane Library (Subscription Required - Report summaries provided free of charge)
<http://www.thecochranelibrary.com/view/0/index.html>

Collection of six databases that contain different types of high-quality, independent evidence to inform healthcare decision-making.

- ConsumerLab.com <http://www.consumerlab.com/> (Subscription Required)
Provider of independent test results and information to consumers and healthcare professionals about quality of health and nutrition products.
- Federal Trade Commission. Consumer Information on Drugs & Dietary Supplements.
<http://www.consumer.ftc.gov/articles/0261-dietary-supplements>
- Health Canada, Licensed Natural Health Products.
<https://open.canada.ca/data/en/dataset/ef546c83-43a8-4404-943e-ab324164eeb3>
contains information about natural health products that have been issued a product licence by Health Canada.
- HerbMedPro. (Subscription Required) <http://cms.herbalgram.org/herbmedpro/overview.html>
Interactive, electronic herbal database that provides hyperlinked access to the scientific data underlying the use of herbs for health
- Department of Defense. OPSS Operation Supplement Safety.
<https://www.opss.org/> *Dietary supplement resource for the military community, leaders, healthcare providers, and DOD civilians.*
- Linus Pauling Institute, Micronutrient Information Center, Oregon State University.
<https://lpi.oregonstate.edu/mic> *Information regarding roles of vitamins, minerals, other nutrients, dietary phytochemicals, and some foods in preventing disease and promoting health.*
- LiverTox™ <https://www.ncbi.nlm.nih.gov/books/NBK547852/>
Partnership of NLM and NIH NIDDK, provides information on liver injury attributable to herbals and dietary supplements, in addition to medications.
- MedlinePlus Herbs and Supplements, National Library of Medicine, NIH.
http://www.nlm.nih.gov/medlineplus/druginfo/herb_All.html
Selected monographs from the Natural Standard Research Collaboration provided free of charge.
- Memorial Sloan Kettering Cancer Center, About Herbs, Botanicals & Other Products.
<http://www.mskcc.org/mskcc/html/11570.cfm>
Evidence-based information about herbs, botanicals, supplements, and more from the Integrative Medicine Service.
- NAPRALERT® (Limited free searching w/ subscription required for more advanced)
<https://pcrps.pharmacy.uic.edu/our-centers/uic-nih-center-for-botanical-dietary-supplements-research/napralert-database/#napralert-database> *Relational database of natural products, including ethnomedical information, pharmacological / biochemical information of extracts of organisms in vitro, in situ, in vivo, in humans (case reports, non-clinical trials) and clinical studies.*
- National Cancer Institute, NIH. PDQ Cancer Information Summaries: Complementary and Alternative Medicine. <http://www.cancer.gov/cancertopics/pdq/cam/>
- National Center for Complementary and Integrative Health (NCCIH), NIH, Herbs at a Glance.
<https://nccih.nih.gov/health/herbsataglance.htm>
Series of fact sheets provides basic information about specific herbs or botanicals—common names, uses, potential side effects, and resources for more information.
- Natural Medicines (combined Natural Medicines Comprehensives Database and Natural Standard) (Subscription required). <https://naturalmedicines.therapeuticresearch.com/>
Natural ingredient monographs for over 90,000 commercial products, interaction, effectiveness, and adverse effects checkers and patient handouts and consumer education monographs available in English, Spanish, and French
- US Food and Drug Administration, Dietary Supplement Alerts and Safety Information.
<http://www.fda.gov/Food/DietarySupplements/>

- US Food and Drug Administration, Tainted Products Marketed as Dietary Supplements List www.accessdata.fda.gov/scripts/sda/sdnavigation.cfm?sd=tainted_supplements_cder *Potentially hazardous products with hidden ingredients marketed on internet and retail establishments.*

Nutrient, Ingredient, Methods, and Label Databases

- Analytical Methods and Reference Materials Database (AMRM), NIH Office of Dietary Supplements. <https://ods.od.nih.gov/Research/AMRMProgramWebsite.aspx> *Searchable database of articles and reports related to development of validated analytical methods and reference materials for dietary supplement ingredients.*
- Dietary Supplement Label Database (DSLID), NIH Office of Dietary Supplements https://ods.od.nih.gov/Research/Dietary_Supplement_Label_Database.aspx <https://dslid.od.nih.gov/dslid/> *Contains the full label contents from a sample of dietary supplement products marketed in the U.S.*
- Dietary Supplement Ingredient Database (DSID). Office of Dietary Supplements, NIH and Nutrient Data Laboratory, USDA . <https://dietarysupplementdatabase.usda.nih.gov/> *Composition of dietary supplements and link to the multivitamin/mineral (MVM) calculator. DSID-1 contains estimated values for 18 vitamins and minerals in adult MVMs derived from analytical data.*
- DailyMed, National Library of Medicine, <http://dailymed.nlm.nih.gov/dailymed/about.cfm>, *Information about marketed drugs including FDA labels (package inserts). Includes some vitamin and mineral and herbal preparations and homeopathic products.*
- Supplement OWL™ (Online Wellness Library): The Dietary Supplement Product Registry, CRN, <http://www.supplementowl.org/> *Industry-wide on-line dietary supplement product registry; identify dietary supplements, key ingredients, product label information and claims, companies making/marketing those products. Allows search, sort, examine and evaluate labels and other product information*
- USDA FoodData Central. Nutrient Data Laboratory, Agricultural Research Service, USDA. 2019 <https://fdc.nal.usda.gov/> *An integrated, research-focused data system that provides expanded data on nutrients and other foods components as well as links to sources of related agricultural, food, dietary supplement, and other information.*
- ETM-DB Ethiopian Traditional Medicine Database. Bio-Information System Laboratory (BISL KAIST, Republic of Korea. <http://biosoft.kaist.ac.kr/etm/home.php/> Free, online relational database containing Ethiopian herbal medicine, related compounds and target gene/proteins.
- South African Natural Compounds Database (SANCOB) Research Unit in Bioinformatics (RUBi), Rhodes University, Eastern Cape, South Africa <https://sancob.rubi.ru.ac.za/> free database containing compounds isolated from the plant and marine life in and around South Africa
- African Natural Products Database (ANPDB) an amalgamation of NP databases from various regions of Africa. Currently, ANPDB comprises of the Northern African Natural Products Database (**NANPDB**) and the Eastern African Natural Products Database (**EANPDB**). 6,515 compounds isolated mainly from 1,042 source organisms; mainly plants, with contributions from microorganisms, animals (e.g. corals), and marine sources 1962 to 2019. <http://african-compounds.org/anpdb/>
- Super Natural II, Charite University of Medicine-Berlin, https://bioinf-applied.charite.de/supernatural_new/index.php?site=home Database of natural products containing 325,508 natural compounds (NCs), including information about the corresponding 2d structures, physicochemical properties, predicted toxicity class and potential vendors.

- MPNS V11 (Medicinal Plant Names Service) from Kewscience. Provides a global nomenclatural indexing and reference resource enabling health professionals and researchers to access information about plants and plant products relevant to pharmacological research, health regulation, traditional medicine and functional foods. Version 11 contains: 34,408 plants from 377 families of angiosperm or gymnosperm and 550,000+ unique names used for these plants or herbal substances

Alerts

- NCBI “Saved Searches” <http://www.ncbi.nlm.nih.gov/>
(how to: <http://www.ncbi.nlm.nih.gov/books/NBK53592/>)
Facilitates saving search queries for NCBI databases like PubMed/Medline, and provides automatic e-mail updates for saved searches, which can be set up on a daily, weekly, or monthly basis.
- Google Alerts <https://www.google.com/alerts>
Content change detection and notification service which sends emails to the user when it finds new results—such as web pages, newspaper articles, blogs, or scientific research—that match the user's search term(s).