

ODS DSRP 2022 - Reading Materials and Resources

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Journal articles

Botanical effects in humans:

Barrett B, Brown R, Rakel D, Rabago D, Marchand L, Scheder J, Mundt M, Thomas G, Barlow S. **Placebo effects and the common cold: a randomized controlled trial.** *Ann Fam Med.* 2011, 9(4):312-22. DOI: 10.1370/afm.1250

Chilton FH, Manichaikul A, Yang C, O'Connor TD, Johnstone LM, Blomquist S, Schembre SM, Sergeant S, Zec M, Tsai MY, Rich SS, Bridgewater SJ, Mathias RA, Hallmark B. **Interpreting Clinical Trials With Omega-3 Supplements in the Context of Ancestry and FADS Genetic Variation.** *Front Nutr.* 2022 Feb 8;8:808054. doi: 10.3389/fnut.2021.808054.

Hypericum Depression Trial Study Group. **Effect of *Hypericum perforatum* (St John's wort) in major depressive disorder: A randomized controlled trial.** *JAMA.* 2002 Apr 10;287(14): 1807.

Novotny JA, Chen TY, Terekhov AI, Gebauer SK, Baer DJ, Ho L, Pasinetti GM, Ferruzzi MG. **The effect of obesity and repeated exposure on pharmacokinetic response to grape polyphenols in humans.** *Mol Nutr Food Res.* 2017 Nov;61(11):10.1002/mnfr.201700043. doi: 10.1002/mnfr.201700043

Preclinical research:

Garner K, Gaslo; BM, Weber E, Ahloy-Dallaire J, Pritchett-Corning KR. **Introducing Therioepistemology: the study of how knowledge is gained from animal research.** *LabAnimal.* 2017, 46(4):103-11.

Frolinger T, Sims S, Smith C, Wang J, Cheng H, Faith J, Ho L, Hao K, Pasinetti GM. **The gut microbiota composition affects dietary polyphenols-mediated cognitive resilience in mice by modulating the bioavailability of phenolic acids.** *Sci Rep.* 2019 Mar 5;9(1):3546. doi: 10.1038/s41598-019-39994-6.

Botanical characterization and stability – methods and caveats:

Egan JM, van Santen JA, Liu DY, Linington RG. **Development of an NMR-Based Platform for the Direct Structural Annotation of Complex Natural Products Mixtures.** *Journal of Natural Products.* 2021, 84, 1044-1055. doi: [10.1021/acs.jnatprod.0c01076](https://doi.org/10.1021/acs.jnatprod.0c01076).

Friesen JB, Liu Y, McAlpine JB, Pauli GF. **Selective Depletion and Enrichment of Constituents in "curcumin" and Other *Curcuma longa* Preparations.** J Nat Prod. 2019. Doi: 10.1021/acs.jnatprod.9b00020

Lee S,; van Santen JA, Farzaneh N, Liu DY, Pye CR, Baumeister TUH, Wong W-R, Linington RG. **NP Analyst: An Open Online Platform for Compound Activity Mapping.** ACS Central Science, 2022, ASAP. doi: [10.1021/acscentsci.1c01108](https://doi.org/10.1021/acscentsci.1c01108).

Nelson KM, Dahlin JL, Bisson J, Graham J, Pauli GF, Walters MA. **The Essential Medicinal Chemistry of Curcumin.** J Med Chem. 2017, 60 (5):1620–37. DOI: 10.1021/acs.jmedchem.6b00975

Weber W, Vander Stoep A, McCarty RL, Weiss NS, Biederman J, McClellan J. ***Hypericum perforatum* (St John's wort) for attention-deficit/hyperactivity disorder in children and adolescents: A randomized controlled trial.** JAMA. 2008 Jun 11; 299(22): 2633-2641. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2587403/pdf/nihms55607.pdf>

E-book

Plant Foods and Dietary Supplements: Building Solid Foundations for Clinical Trials, Frontiers in Nutrition Methodology, May 3, 2022. <https://www.frontiersin.org/research-topics/19067/plant-foods-and-dietary-supplements-building-solid-foundations-for-clinical-trials>

Websites and tools

Consortium Advancing Research on Botanical and Other Natural Products website: https://ods.od.nih.gov/Research/Dietary_Supplement_Research_Centers.aspx

High-content Functional Analysis of Natural Products (Hi-FAN) gene expression similarity tool: http://fusion.yuhs.ac/fusion_query.php

Natural Products Magnetic Resonance Database (NP-MRD): <https://np-mrd.org/>