

Nancy L. Booth, Ph.D.
Science Consultant

Dr. Nancy Booth is a Science Consultant at Spherix. She has diverse training in the areas of organic/bio-organic chemistry, pharmacognosy, natural products, dietary supplements, and cancer. Her primary area of expertise is in the scientific evaluation of botanical dietary supplements, development of high-throughput screening assays, and drug discovery. She also has experience in anticancer signal transduction pathways utilizing death receptors, estrogenic phytochemicals, and optimizing *in vitro* bioassays for use with natural products.

Prior to joining Spherix in 2008, Dr. Booth was awarded a postdoctoral NIH Cancer Research Training Award to develop a high-throughput screening project investigating the anticancer synergy between natural products and a death receptor ligand. She has designed and analyzed studies to investigate mechanisms of action of selected hit molecules. She has also been involved in studies on the activation of caspases and induction of apoptosis in cancer cells. Her doctoral work was partially funded by a pre-doctoral NIH National Research Service Award and involved the chemical and biological standardization of a red clover extract for use in alleviating menopausal hot flashes for a clinical study. She received a travel award from the American Society of Pharmacognosy to present some of her work at a national meeting.

Dr. Booth has authored several peer-reviewed publications, including a chapter on red clover for the *Encyclopedia of Dietary Supplements*. She also reviews manuscript submissions for the *Journal of Natural Products*. As part of Spherix's Health Science Division, Dr. Booth is responsible for supporting the scientific needs of her clients. She is involved in the development and review of protocols, critical review of scientific literature and preparation of safety evaluations in support of food ingredients, pharmaceuticals and consumer products. Before joining Spherix, Dr. Booth served as a CRTA postdoctoral research fellow at the National Cancer Institute of the National Institutes of Health in Frederick, MD.



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Expertise

Botanical Dietary Supplements

Drug Discovery

Natural Products

Anticancer Assays

Estrogenic Phytochemicals

Traditional Herb Use

Credentials

Cancer Research Training Award Postdoctoral Fellow, NCI-Frederick, Frederick, MD

Ph.D., Pharmacognosy University of Illinois at Chicago, Chicago, IL

M.S., Chemistry, University of Rochester, Rochester, NY

B.S., Chemistry, Worcester Polytechnic Institute, Worcester, MA