Botanical Research
For Age-Related Diseases
2005-2010

Purdue University and
University of Alabama-
Birmingham Botanicals Center
For Age Related Diseases

The Center Director (Connie Weaver, Purdue University) and Associate Director (Stephen Barnes, University of Alabama at Birmingham) are national leaders in nutrition and pharmacology.

“The need for this research is clear. More needs to be learned about the safety and effectiveness of supplements.”

Research Highlights-

Project 1- Connie Weaver: Isoflavones: Metabolism and Bone Health

Project 2- J. Michael Wyss: Kudzu-Cardiovascular and Cognitive Function

Project 3- Stephen Barnes: Polyphenols, Singlet oxygen, and Protein damage in the eye

Research Cores-

A– Administrative and Biostatistical

B– Botanicals and Education

C– Clinical, (AMS) Accelerator Mass Spectrometry, Analytical

D– In vivo bioavailability
NIH Botanical Research Center

Mission Statement

• To promote interdisciplinary botanicals research for the prevention of age-related diseases.

• Provide the infrastructure and catalysts to make the total research efforts greater than the sum of the individual research programs.

• To communicate our findings to the public and the medical community and to train students, postdoctoral fellows, faculty and industry scientists about this field of research.

Collaborators

Purdue University—Lead Institution
University of Alabama-Birmingham
Rutger’s University
Indiana University School of Medicine
University of Illinois-Champaign Urbana

The Botanicals center is a basic research center that organizes and maintains a multidisciplinary program for experimental research on botanicals as dietary supplements and serves as a national resource on botanical authentication, training and consumer education.

Funding

The Botanicals Center provides developmental funds for training and outreach in botanicals and for stimulating new and current faculty to engage in botanicals research.

Accelerator Mass Spectrometry (AMS) used in research projects.

Purdue University in collaboration with the University of Alabama-Birmingham and investigators at Rutgers University, IU School of Medicine, and University of Illinois are supported by NIH to establish a Dietary Botanicals Supplements Center to study the effectiveness and mechanism of action of polyphenolic compounds purported to reduce the risk of cancer, osteoporosis, cardiovascular disease, cognitive function, and other age-related diseases.