



CRADA OPPORTUNITY NOTICE

Title: Medicinal properties of synthetic derivatives of a natural plant product

ARS Current Research Status:

A series of sixty compounds, that are derivatives of a naturally-occurring plant-derived compound known to have a variety of medicinal effects, has been synthesized. Biological activities associated with the parent compound include, but are not limited to: the ability to increase metabolism, provide analgesic effects, and a high level of antioxidant activity. Preliminary results indicate that these synthetic derivatives have biological activity that equals or exceeds the activity of the parent compound.

Objective:

ARS is seeking a partner/collaborator to further evaluate these compounds for increased metabolism, analgesic effects, and antioxidant activity; and, assuming sufficient activity, to develop appropriate health care products based on the compounds.

Laboratory Mission:

The mission of the Plant Genetic Resources Conservation Unit is to preserve plant genetic resources for present and future researchers and educators. The Unit acquires, characterizes, conserves, evaluates, documents, and distributes genetic resources of agronomic and horticultural crops including sorghum, peanut, vegetables, subtropical and tropical legumes, warm-season grasses, cowpeas, annual clovers, new crops, other crops, and their wild relatives. The objectives of this project are to expand the genetic diversity and associated information of crop and wild relative species in the collection, conserve and regenerate genetic resources efficiently and effectively, distribute pathogen-tested samples and associated information to researchers worldwide, and characterize and evaluate plant genetic resources for molecular markers, morphological descriptors, and other key traits including biochemical content and product quality.

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