



## **CRADA OPPORTUNITY NOTICE**

### **Title: Internal Support Device for Film-based Culture Vessels**

#### **ARS Current Research Status:**

ARS is investigating the use of Internal Support Devices (ISDs) for use with membrane- or film-based vessels to culture/store living cells, tissues, etc. Preliminary design of an ISD, including the production of CAD drawings, has been completed. Also available are laboratory facilities to test/evaluate ISD designs and function.

#### **Objective:**

ARS is seeking a partner/collaborator to explore the potential for developing a technology (ISDs) that enables and facilitates the utilization of gas-permeable flexible enclosures for the aseptic culture of living cells/tissues/organisms. The ideal partner will have an interest in providing support/expertise to further the design of the ISD (and related items), familiarity with injection molding, and that will produce working models or prototypes for evaluation by the PI in a laboratory setting.

#### **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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