



U.S. DEPARTMENT OF AGRICULTURE
Agricultural Research Service



Nutrition Breakout Group





- Specific challenge/problem facing the industry
 - Determine what health benefits of grape consumption can be validated
 - Be aware of changing landscape of claim regulations (e.g., FDA, FCC)
 - Look at grapes as a component of a healthy diet
 - Watch sugar content issues (i.e., dietary guidelines)





- Grapes as a food to displace higher-calorie foods for body weight management
 - Can regular consumption of grapes help reduce caloric intake?
 - Literature review of the field
 - Clinical study to be designed and carried out
 - Requires appropriate leadership, facility, and personnel



• Leader for objective



- Grapes as a food to improve the cardiovascular system

Can regular consumption of grapes help improve cardiovascular parameters?

- Literature review of the field
 - Clinical study to be designed and carried out
 - Requires appropriate leadership, facility, and personnel
 - Possible opportunity to measure markers of metabolic syndrome in a same study
- Draw guidance from NHANES epidemiology study to formulate carefully tailored clinical trial



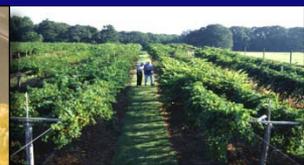


- Grapes as a food to improve cognition
 - Can regular consumption of grapes help improve cognition?
 - Literature review of the field
 - Clinical study to be designed and carried out
 - Requires appropriate leadership, facility, and personnel





- What are the beneficial compounds in grapes?
 - Measure Genetic and Environmental Variation
 - Identify the Compounds and their Relative Levels
 - Effect of Processing
 - Developing assays to evaluate bioactivity
 - Developing assays to evaluate bioavailability
 - Understand metabolism of bioactive compounds into secondary metabolites





- Resources currently available
 - Expertise and Facilities
 - Cast of thousands (including JoAnn Whitman (Welch's), Jim Painter (CRMB), John Finley & David Klurfeld (USDA), USDA Human Nutrition Research Centers, Kannapolis, Jim Anderson (UK), RH Liu, Mike McIntosh (UNCG))
 - Funds
 - Grape Industry Partners, USDA, NIH





- Outline the Project Management Plan
 - Complete on-going Epidemiology Study (~1/2011)
 - Utilize the NGWI Technical Working Group to Develop the Research Plan (Jan 24, 2011)
 - Confer with ARS for additional guidance and/or support (Feb 2011)
 - Evaluate sites and research leaders for taking on projects (March 2011)
 - Report to NGWI Board with Research Plan for Approval (April 2011)





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