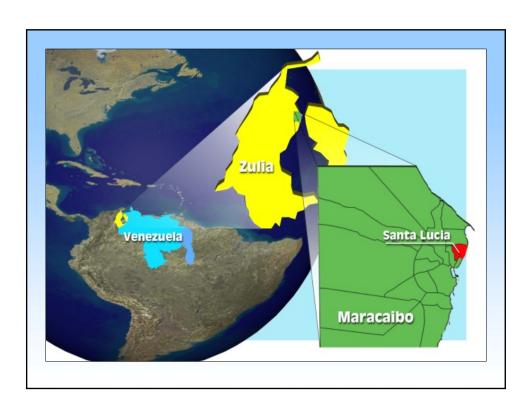
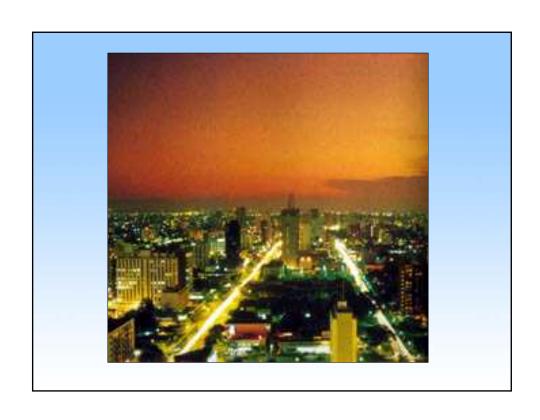
Ethics of Genetics in Research: Perils and **Promises**

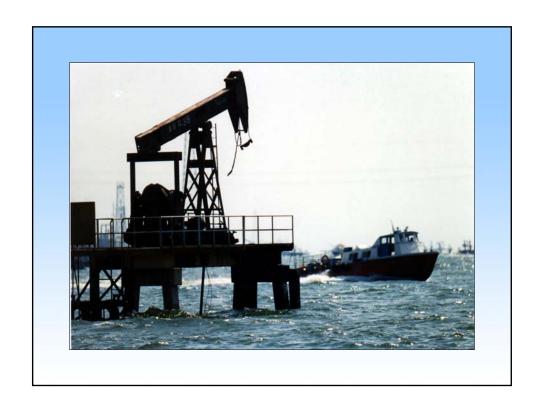
Genetic Research in Communities and Across Cultures

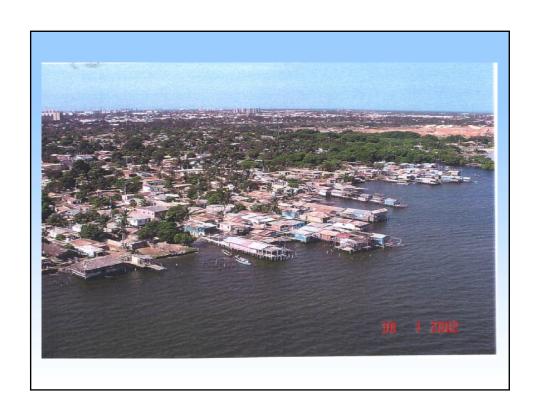
Gladys E. Maestre, M.D., Ph.D.

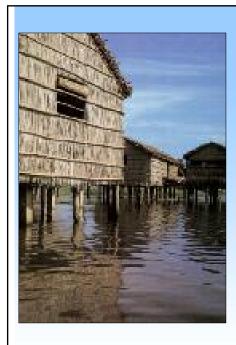
Columbia University University of Zulia New York USA Maracaibo Venezuela





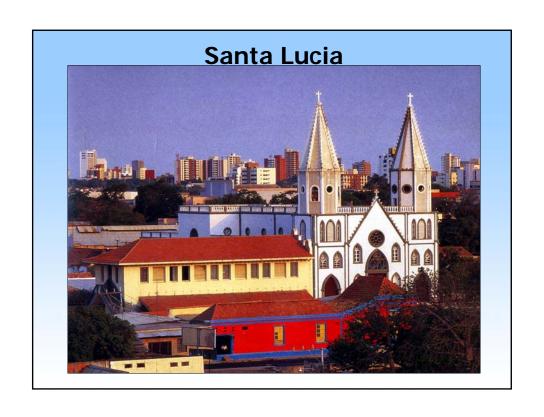








Santa Rosa de Agua





Maracaibo Aging Study

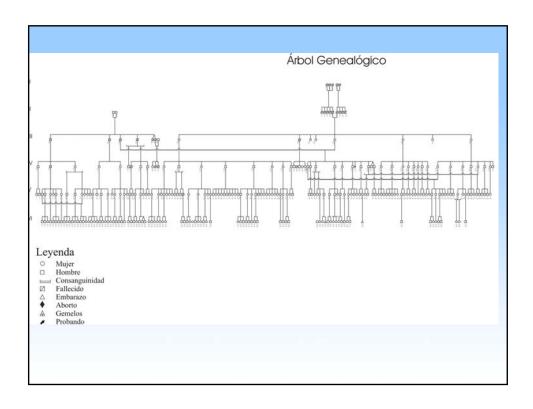
- Survey-based registry
 - Door to Door
 People over 55 years of age
- Informed consent
 - Community Consent
 - Family Consent -head of the family
 - Individual Consent

Objectives

- To define the aging profile of the local population and its determinants
- To assess the prevalence, incidence and risk factors for dementia
- To examine the association between cardiovascular and cognitive function

Assessment Protocols

- Survey
- Social worker at the home
- Neuropsychological tests
- Neuropsychiatric assessments
- Cardiovascular tests
- MRI
- Clinical Chemistry
- DNA



Why would you want to participate?

- Maybe I can make some money
- Maybe they will help me solve a health problem
- Maybe they can help us to get a job, a house, anything that we need
- Maybe they will find the cure for a disease that runs in my family
- Maybe is good fo the neighborhood and the press will come



Community Meeting on Genome Research in Santa Rosa de Agua

What can/should we give to the community in return for their participation?

Money?

Used clothes?

Toys for the kids?

A party?

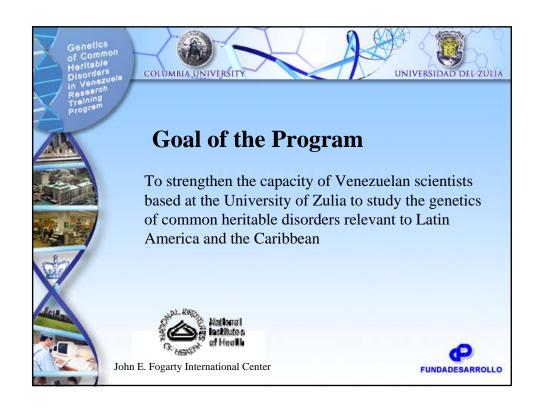
Are we talking a bout charity or is it our **responsibility** give back something to the community?

What can/should we give to the community in return for their participation?

They should benefit of the knowledge and expertise developed thanks to the study in a meaningful and sustainable way

- Specialized services available
- Should learn along the way
- Prevention of diseases

- **✓** Capacity Building
- **✓ Public Engagement**
- √Sustainable Health Services



Genetics
of Common
Heritable
Disorders
in Venezuela
Research
Training
program

Main Strategies

- Training of a critical mass of scientists and engineers in the design and conduct of modern genetic/genomic research
- Facilitating the development of a research and training infrastructure at the University of Zulia
- Establishing collaborative networks between Columbia/Chicago Universities and University of Zulia researchers

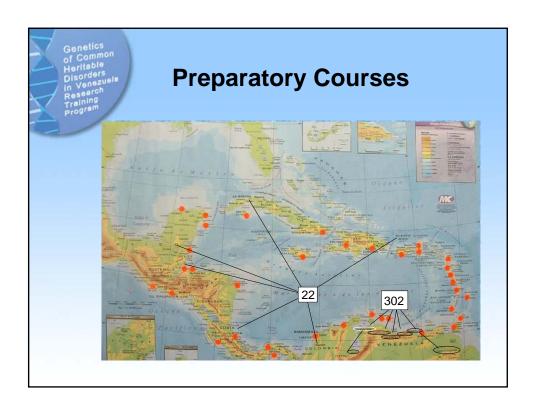
Genetics
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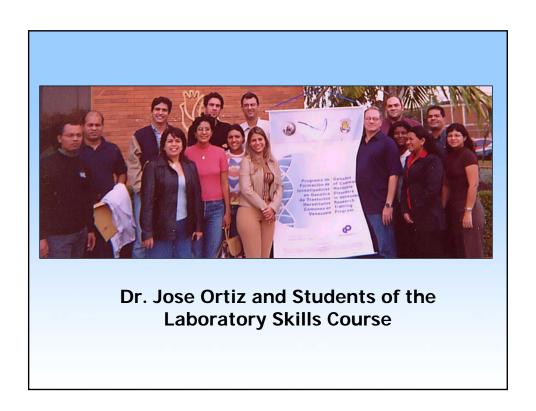
24 Preparatory Courses in 3 years

- Public Policy and Scientific Research
- English Writing
- Introduction to Biostatistics
- Statistical Genetics

• Genome Variation and Human Common Diseases

- Laboratory Skills
- Neurobiology
 - •Basic Aspects of Brain Diseases
 - Neurodegeneration
 - Brain-Environment Interactions
- Genetic, Genomic and Public Health





How to Initiate and Sustain Collaborations for Research and Training?

- Videoconferencing
- Exchange of Students
- Developing collaborative agreements
 - Visitis from scientists to Maracaibo
- · Writing grants and applying for funding





Thank You...

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