



NIA LOAD Study: The Next Phase

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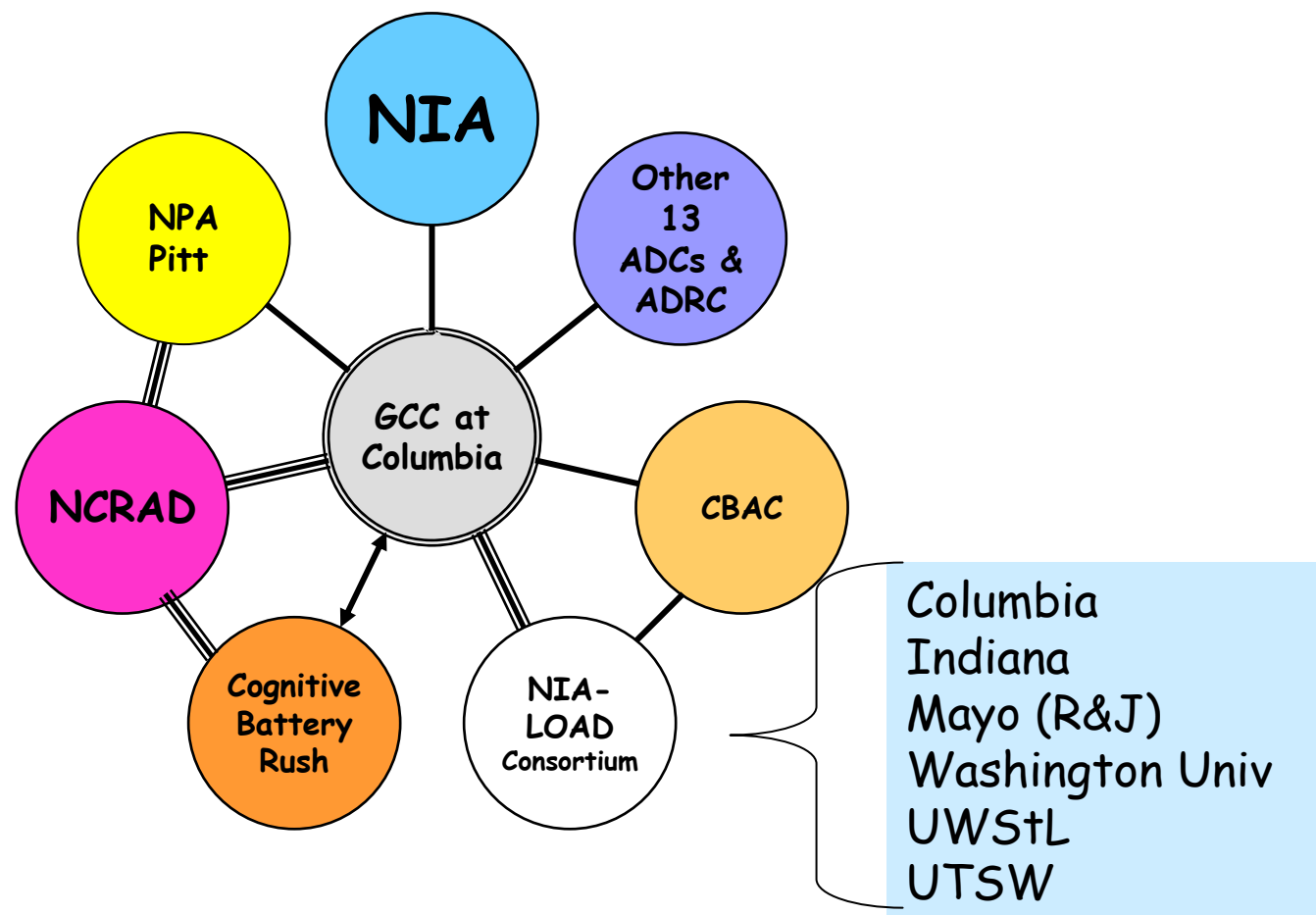


Goals

1. Complete the collection of 1,000+ families
2. Identify newly affected family members and unaffected members in recruited families
3. Begin standardized follow-up procedures
4. Expand phenotyping with quantitative traits
5. Complete the recruitment and begin follow-up of controls
6. Analysis of data from CIDR in the first 300+ families
7. Make samples, clinical data, genotyping data and preliminary analyses available to all qualified investigators



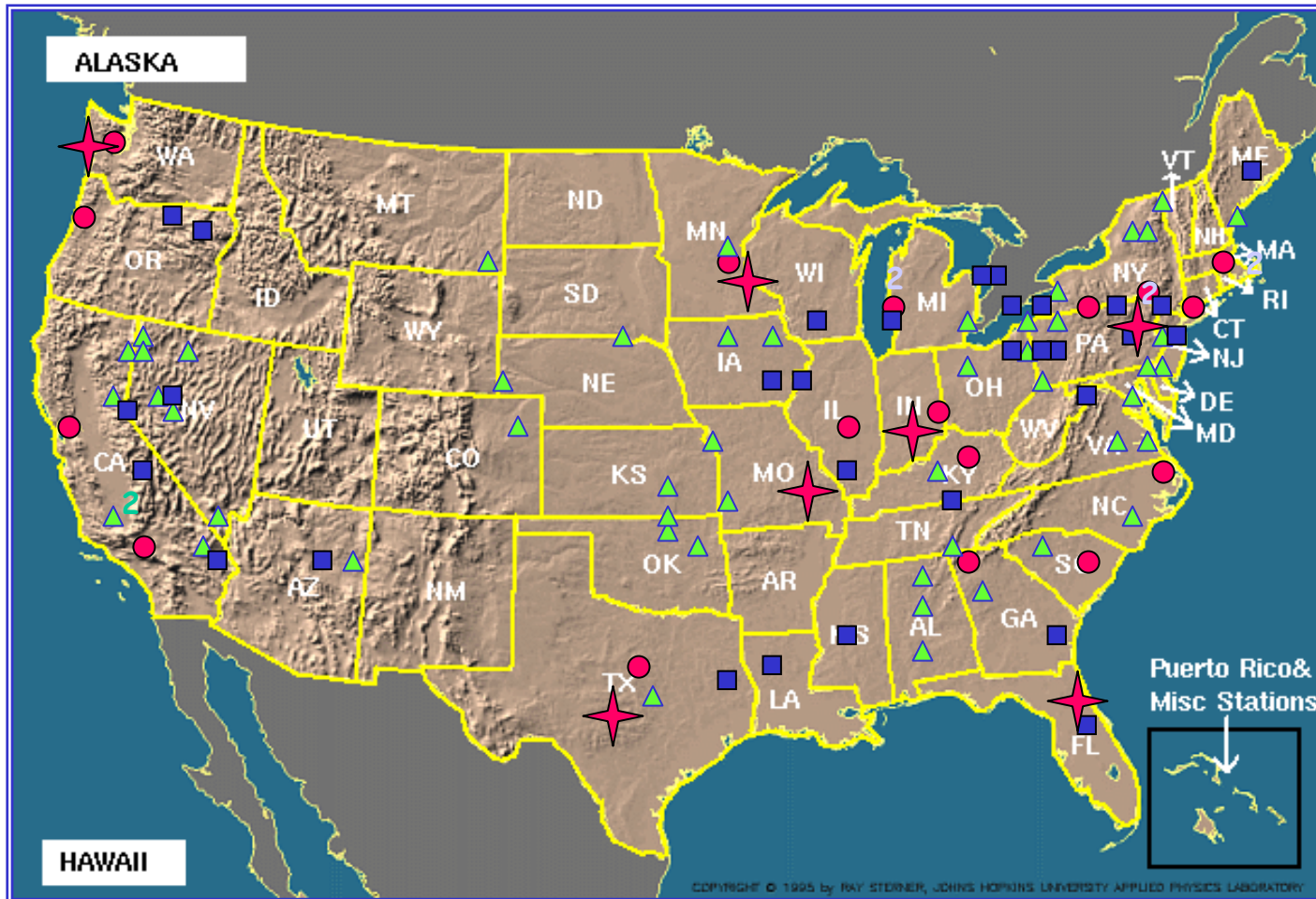
NIA-LOAD: Phase II





NIA LOAD Genetics Initiative

● ADCs ▲ NIA Families ■ NCRAD Families ★ Study Sites





LOAD Study Samples (10/4/06)

- 420 completed families (341)
- 369 qualifying families (297)
- 935 pedigrees Approved*
 - 825 families approved and actively recruited
 - 590 families with 1 or more samples at NCRAD (3,003 individuals)
- 414 controls/355 with data and samples



NIA LOAD: Phase II

Why are more families needed?

- May be as many as 4 -5 additional major genetic variants
- Large sample sizes are required to examine gene*gene interactions (e.g. APOE- ϵ 4 ~ 12% with AD10 ~20% = 2.4% with both variant alleles)
- Large sample sizes are also required to examine gene*environment interactions, (e.g. APOE- ϵ 4 ~ 12% with stroke ~15% = 1.8%)



NIA LOAD Study

- Establish a collection of families predisposed to Alzheimer's disease so that scientists can:
 - Identify all or most of the genetic variants
 - Have better understanding of disease pathogenesis
 - Develop a clearer understanding of risk and how genetic variants interact with environmental and other health risk factors
 - Develop new treatments



Role of ADC - Education Core

- Educate all members of the team
 - Never know who is going to remember that brother who also has AD
- Educate our patient's families
 - "what's in it for them?"
- Encourage continued participation
- Pamphlets
- Slide for talks

Get Your Family Involved in the NIA-LOAD Genetic Initiative



National Cell Repository for
Alzheimer's disease:

Hot Line: 1-800-526-2839

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