

# National Cell Repository for Alzheimer Disease (NCRAD)

Tatiana Foroud, Ph.D.  
Principal Investigator  
Indiana University School of Medicine

U24AG21886

# NCRAD Banking Dementia Studies

- NCRAD began banking samples in 1990 when it was called the Cell Bank Core within the Indiana Alzheimer Disease Center
- NCRAD banks samples for 16 different studies
  - Single site, multi-site and international studies
- NCRAD banks a variety of samples
  - Genomic DNA, cell lines, peripheral blood mononuclear cells (PBMCs), RNA
  - Plasma, serum
  - Brain tissue

The banner features the NCRAD logo on the left, which consists of the letters 'NCRAD' in a bold, blue, sans-serif font. Below the logo is the text 'The National Cell Repository for Alzheimer's Disease' in a smaller, brown font. The background of the banner is a light beige color with a faint, repeating pattern of molecular structures. On the right side of the banner, there is a semi-circular image showing several test tubes in a rack, containing liquids of various colors (yellow, orange, green). The text 'NCRAD Quarterly Newsletter' is overlaid on this image in a large, blue, sans-serif font.

**NCRAD**

The National Cell Repository for  
Alzheimer's Disease

**NCRAD Quarterly Newsletter**

- Initiated this year a new quarterly newsletter to facilitate communication with the ADCs
- Annual conference call with each ADC to discuss their center's banking as well as new initiatives

# NCRAD Sample Distribution Report

- Number of samples contributed by the site for all initiatives
- Number of samples distributed to approved researchers
- Number of researchers using samples
- NIH grants supported by the site's samples

<b>Sample Distribution Report</b>				
<b>Study</b>	<b>Total Indiv Received</b>	<b>2012 Indiv Received</b>	<b>Total Samples Distributed</b>	<b>2012 Samples Distributed</b>
ADGC				
ADNI				
LOAD				
<b>Grand Total</b>				
<b>Total Number of Investigators Receiving Samples</b>				
<b>Number of Investigators Receiving Samples in 2012</b>				
<b>NIH Grants Supported</b>				

# Overall Goal of NCRAD

- Bank research samples to facilitate research
- Subjects seen at the ADCs are invaluable for research because of their detailed phenotyping
- NCRAD goal is to bank a sample from EVERYONE seen at an ADC!

# Ongoing NCRAD – ADC Initiatives

- Initiatives with the ADGC
  - Phase I: Autopsy confirmed AD and controls
    - Send brain tissue or DNA
  - Phase II: Everyone with a UDS
    - Send DNA or buffy coat
  - Blood List: Subset of Phase II
    - Possible & Probable AD and controls
    - Send in blood samples

# Ongoing NCRAD – ADC Initiatives

- Initiatives with the ADGC (cont.)
- Compensation from the ADGC
  - Varies depending on type of sample & list
  - NCRAD returns 25ug of DNA for all blood samples
  - APOE genotyping

# Ongoing NCRAD – ADC Initiatives

- Initiatives within NCRAD
  - Blood sample from anyone with a UDS
- Compensation from NCRAD
  - Free shipment
  - NCRAD returns 25ug of DNA for all blood samples
  - APOE genotyping



# Initiatives with the ADCs

## ADGC Initiative

- Blood List
  - Possible, Probable AD

## • Pair these initiatives

- Anyone with a UDS can have blood sent to NCRAD
- NCRAD pays for shipping on its samples
- ADC receives APOE genotype back
- NCRAD sends the ADC 25 ug of DNA (when 2 tubes are sent)

## NCRAD Initiative

- Blood
  - Anyone with a UDS

*Creating a resource that has a DNA sample available for research from all ADC participants!*

# NCRAD's Broader Mission

