

The National Cell Repository for Alzheimer's Disease

Tatiana Foroud, Ph.D.

Principal Investigator

Indiana University School of Medicine

U24AG21886



NCRAD Website




About NCRAD

 **125**
Researchers using
Samples from NCRAD

 **50K**
Subjects with
samples at NCRAD

 **400**
Publications using
NCRAD Samples and
Data

 **22**
Studies with samples
banked at NCRAD

Additional Resources



ClinicalTrials.gov

10 Signs of Alzheimer's Disease

- | | |
|---|------------------------------------|
| 1. Memory Loss | 6. Problems with Abstract Thinking |
| 2. Difficulty Performing Familiar Tasks | 7. Misplacing Things |
| 3. Problems with Language | 8. Changes in Personality |
| 4. Disorientation to Time and Place | 9. Changes in Mood or Behavior |
| 5. Poor or Decreased Judgement | 10. Loss of Initiative |

For more information, call the Alzheimer's Association at (800) 272-3901

Information about:

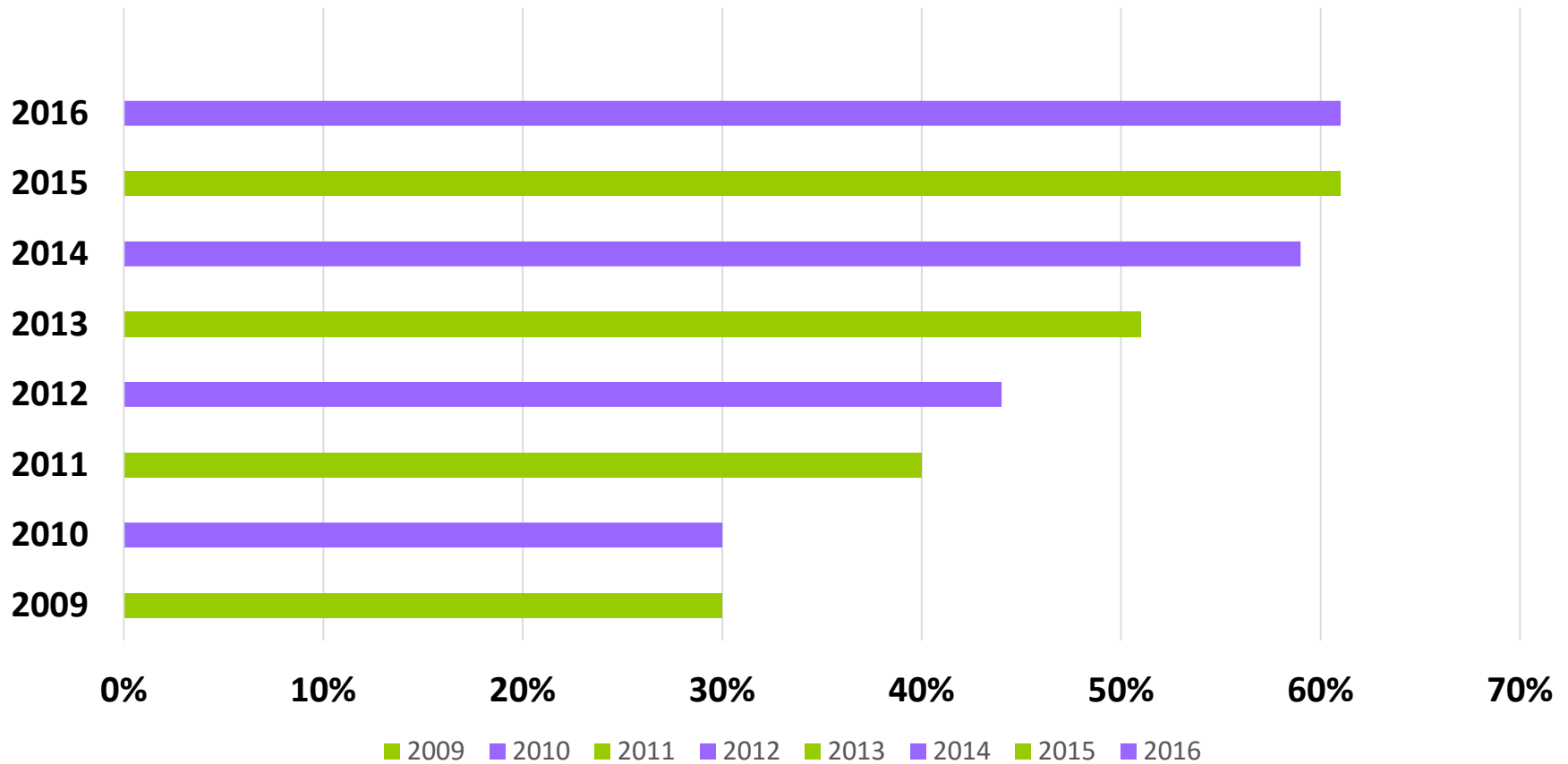
- Collecting samples
- Sending specimens
- Forms
- Requesting samples
- Consent language
- Newsletters

- Much more....

www.NCRAD.org

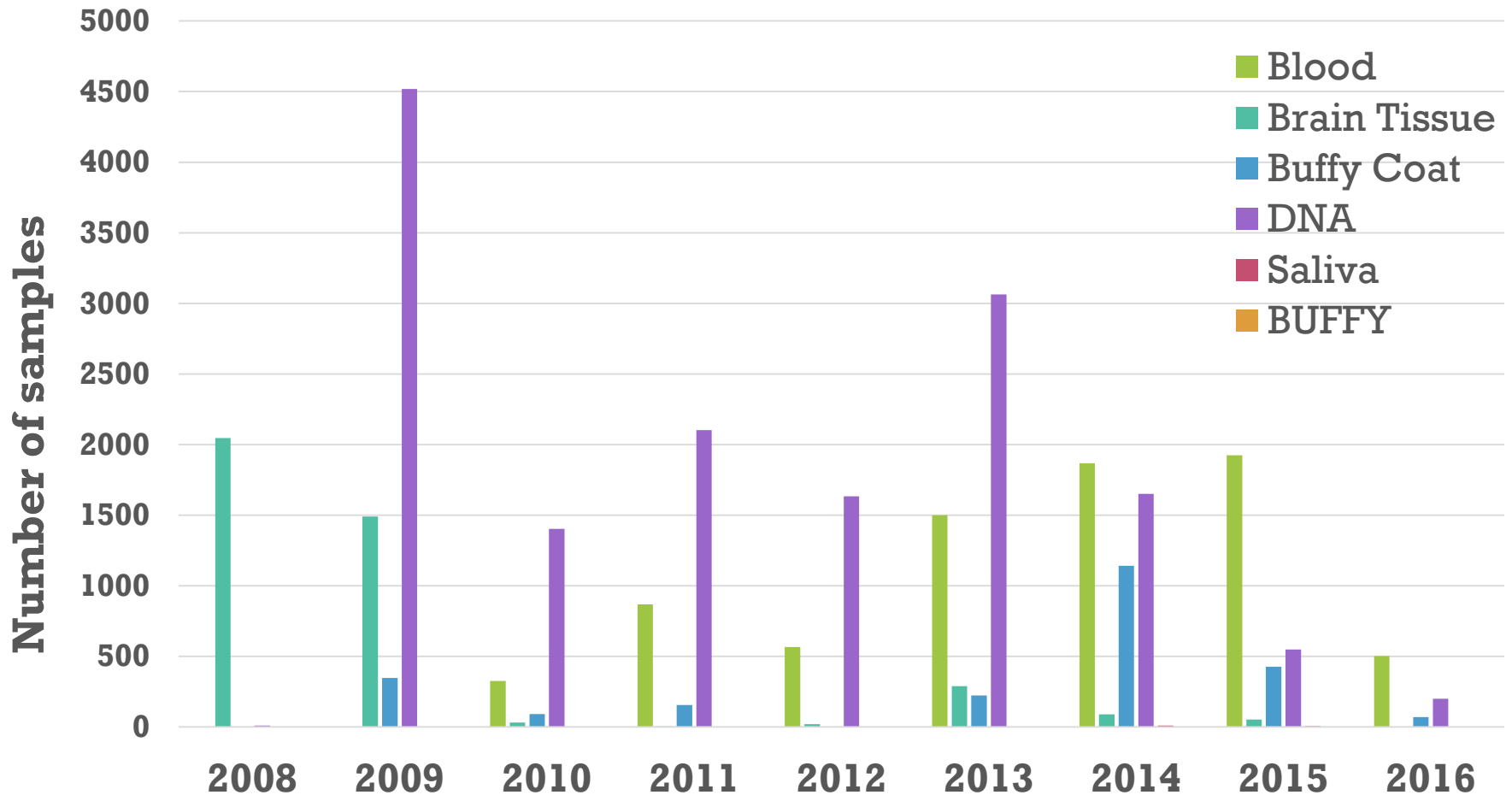
ADC Contributions to NCRAD

Percent of Phase 2 subjects with samples at NCRAD



ADC Samples Received

> 29,000 samples received



This is total number of samples, not unique subjects

Data for ADC Contributed Samples

- **22,747** with APOE
- **13,825** with GWAS
- **11,379** with exome chip
- **3,262** with WES through the ADSP

*all totals above include Phase 1 and Phase 2 subjects

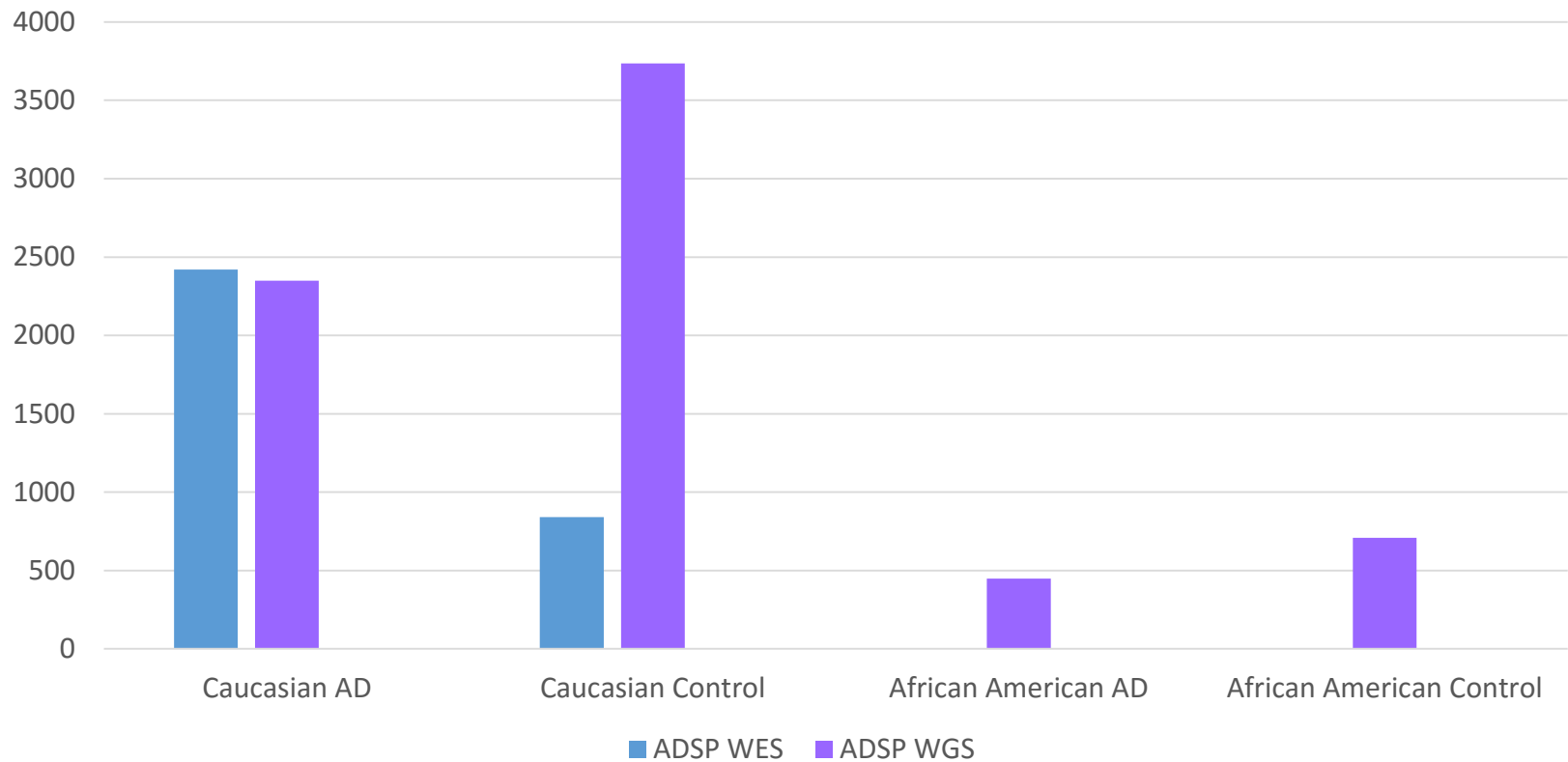
Details in the next presentation

ADSP Initiatives

- Preparing for the next phase of sequencing
- Up to 10,000 samples will be used for whole genome sequencing (WGS)
 - Focus remains on AD cases and controls
- NCRAD banked
 - 5,688 ADC Cases with UDS
 - 7,206 ADC controls with UDS

ADSP WGS Initiative

ADC Cases and Controls Eligible for ADSP



What is needed for ADCs to contribute to ADSP WGS?

- For an ADC to contribute samples, they must have GDS approval
 - 25 sites with GDS approval
 - 8 sites without GDS approval

ADSP WGS Timeline

- Transferring the first set of samples between now and June 1, 2016
- Continue to transfer samples later in 2016-2017

NCRAD Team



NCRAD Office Staff



NCRAD Laboratory Staff

Questions? Call NCRAD

Acknowledgements

- NCRAD Staff
 - Kelley Faber
 - Ashley Vektor
 - Kelly Horner
 - Jan Hamer
 - Colleen Mitchell
 - Chris Hobbick
- Alzheimer's Disease Centers
- Studies contributing samples to NCRAD
- NACC
- NIAGADS
- ADGC
- NIA
- NCRAD Executive Committee
 - Deborah Blacker (Chair)
 - Steve DeKosky
 - Bernie Devlin
 - Alison Goate
 - David Holtzman
 - Bud Kukull
 - Richard Mayeux
 - Rosa Rademakers
 - Gerard Schellenberg
 - Julie Schneider
- Replication Working Group
 - Richard Mayeux
 - Sudha Seshadri