



# National Human Radiobiology Tissue Repository

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*“Learning from Plutonium  
and Uranium Workers”*



# THEMIS Electronic Inventory

Total Samples: **22,955** (includes subsamples)

- USTUR Tissues
- USTUR Acids
- USTUR Planchets
- ANL Tissues
- LASL Acids
- Miscellaneous





## USTUR Tissues (9,035)

- Inventory was completed in 2014
- Currently, we are inventorying new tissues as they are received
- 351 samples from 2 new donations since our last SAC meeting
- 15 samples from older cases
- USTUR tissues are mostly frozen (99%)

## PARENT SAMPLES

This presentation excludes subsamples



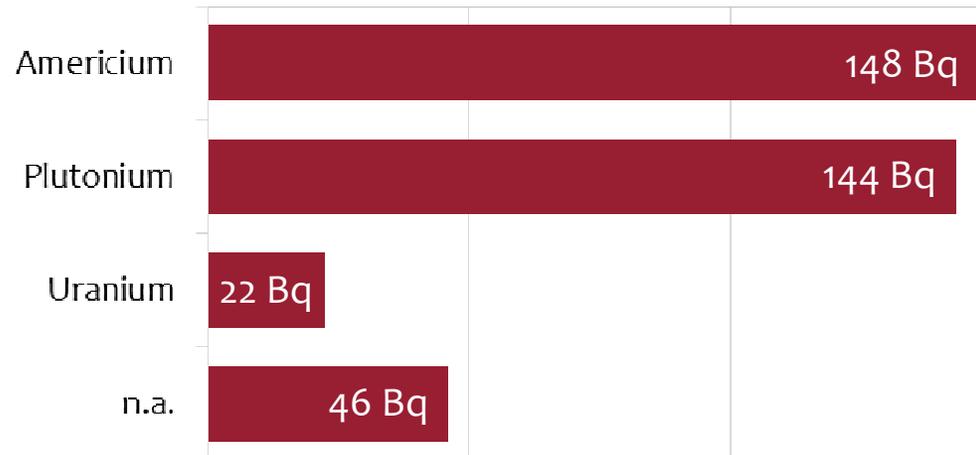
## USTUR Acid Solutions (6,047)

- Inventory was completed in 2015
- The number of acid solutions will continue to increase as previously inventoried tissues are dissolved for radiochemistry



# USTUR Planchets (765 batches)

- 355 batches logged in since last SAC meeting
- What is a batch?
  - Up to 8 planchets
  - Grouped together because they were run with the same blank
- NEW: ability to track activity by element in THEMIS



# Argonne National Laboratory Tissues (1,382)

- Tissues received from ANL in 1992
  - Frozen, dried, plastic embedded, slides
- Primarily Radium Worker Studies: MIT, NJRRP, ANL
- Plutonium Injection Studies – Chicago (1), Rochester (4)
- No further progress toward this task

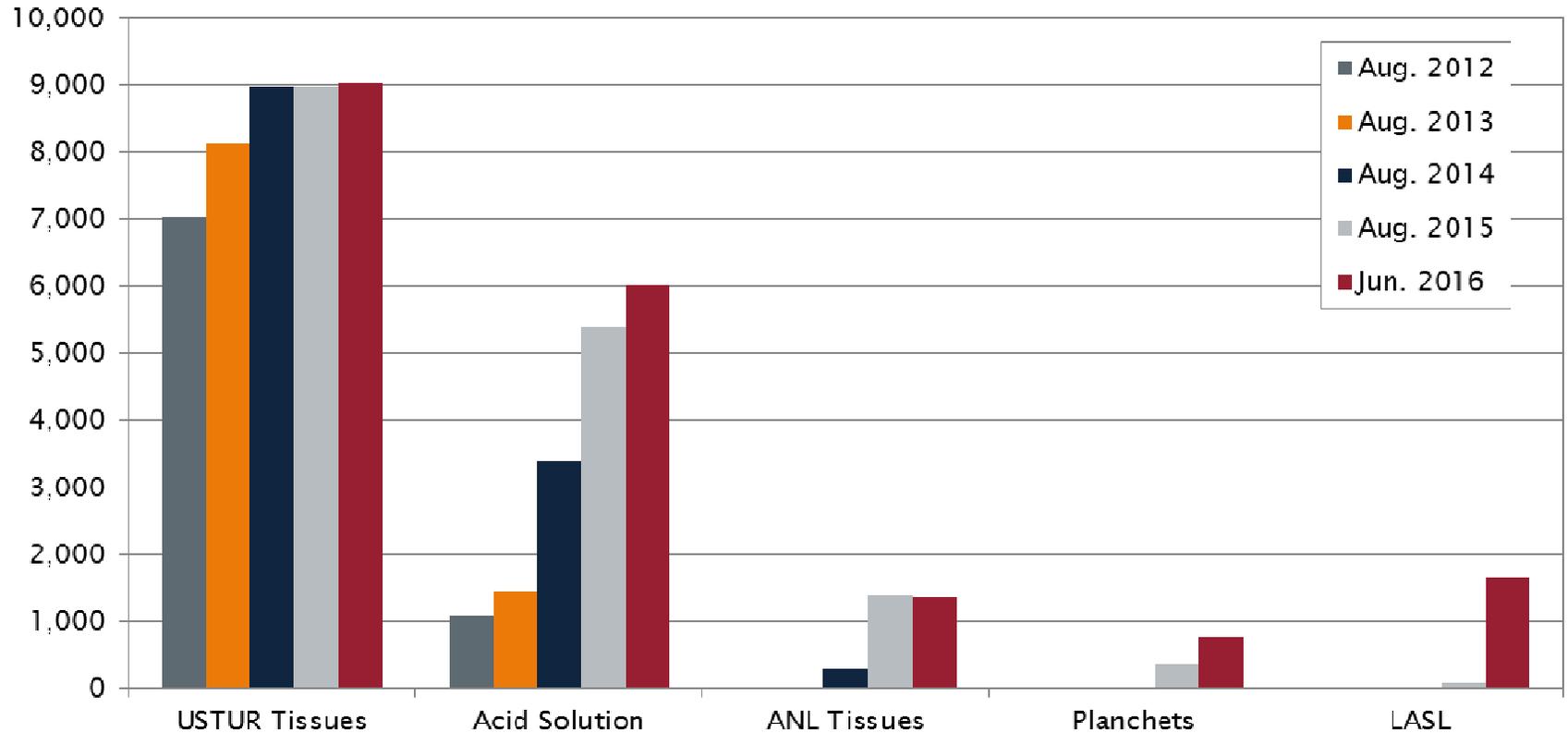


# LASL Acids (1,737)

- Acid-dissolved tissues from population studies carried out by Los Alamos Scientific Laboratory
- 1,647 samples logged in since last annual meeting



# Big Picture: Data Trends



\*Net changes

About **half** as many samples inventoried,  
compared to last “year”



# Questions?