

2014 Scientific Advisory Committee Meeting
Courtyard Marriott, Richland, WA
September 5-6, 2014

National Human Radiobiology Tissue Repository



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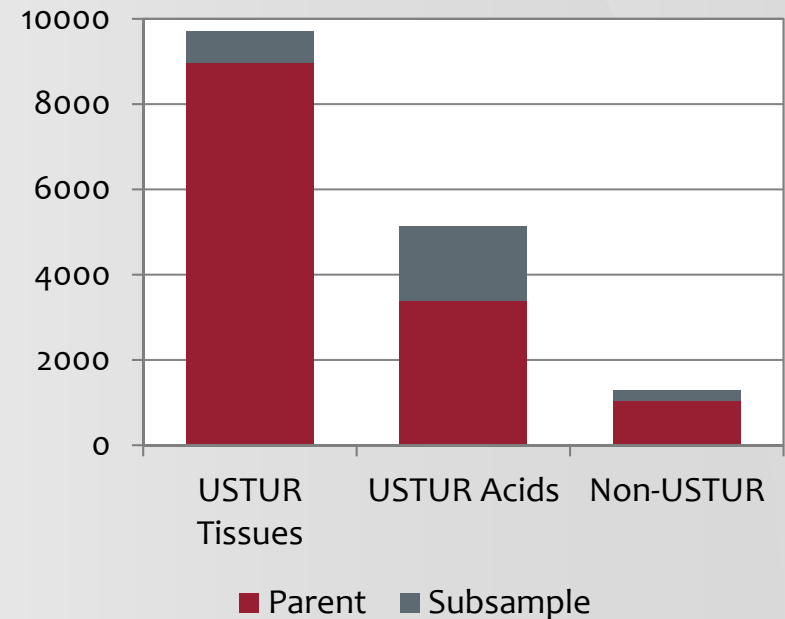
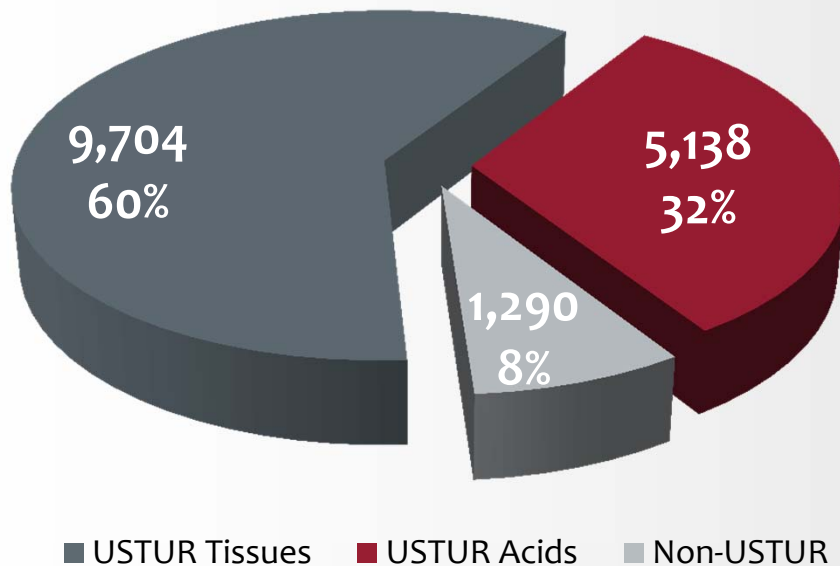
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*“Learning from Plutonium
and Uranium Workers”*

All Inventoried Samples

16,145 Samples (since 2008)

4,185 in the last year



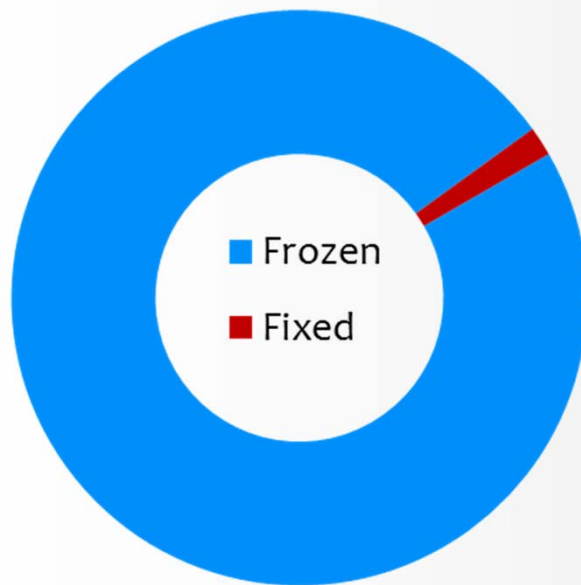
USTUR Tissues

All USTUR Tissues have been inventoried! (Hooray!)

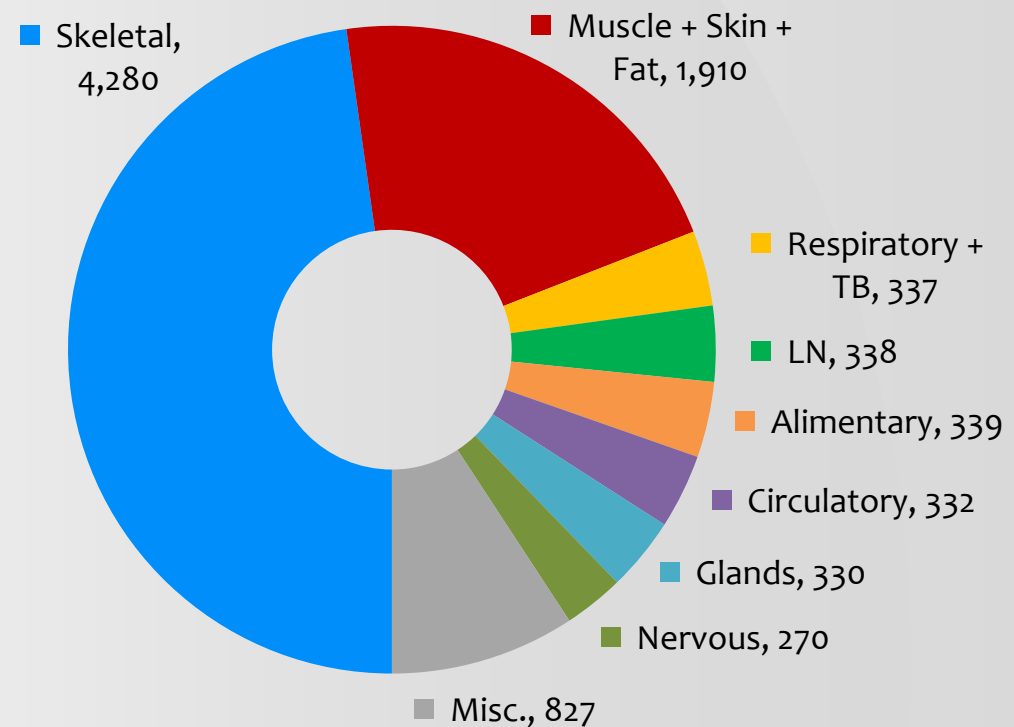
By Sample Type

Frozen: 8,812

Fixed: 148



By Tissue Type



*Parent Samples Only

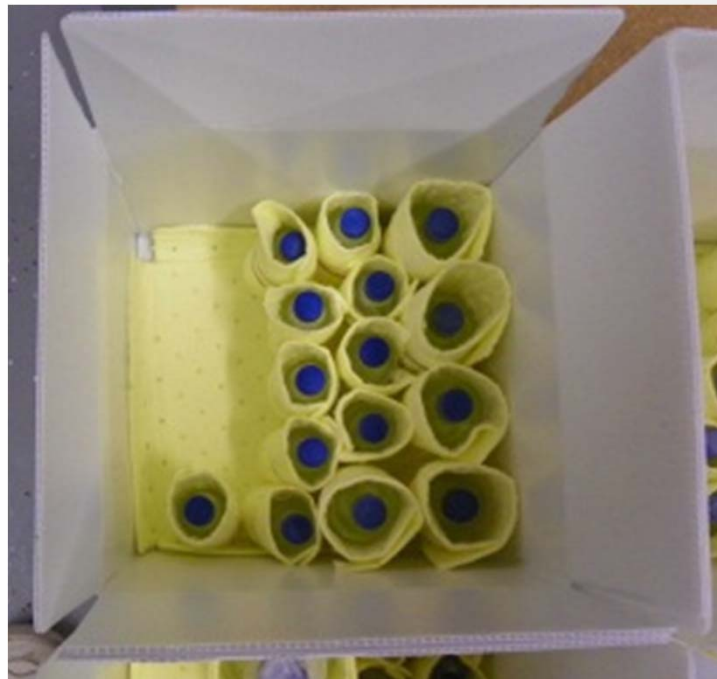


Moving Onward: Radium Dial Painters

- Acquired from Argonne National Lab in 1992.
- The USTUR houses frozen, dried, plastic embedded bones.
- In June, we began vacuum packaging and inventorying frozen samples.
 - ✓ 280 samples



Acid Solutions



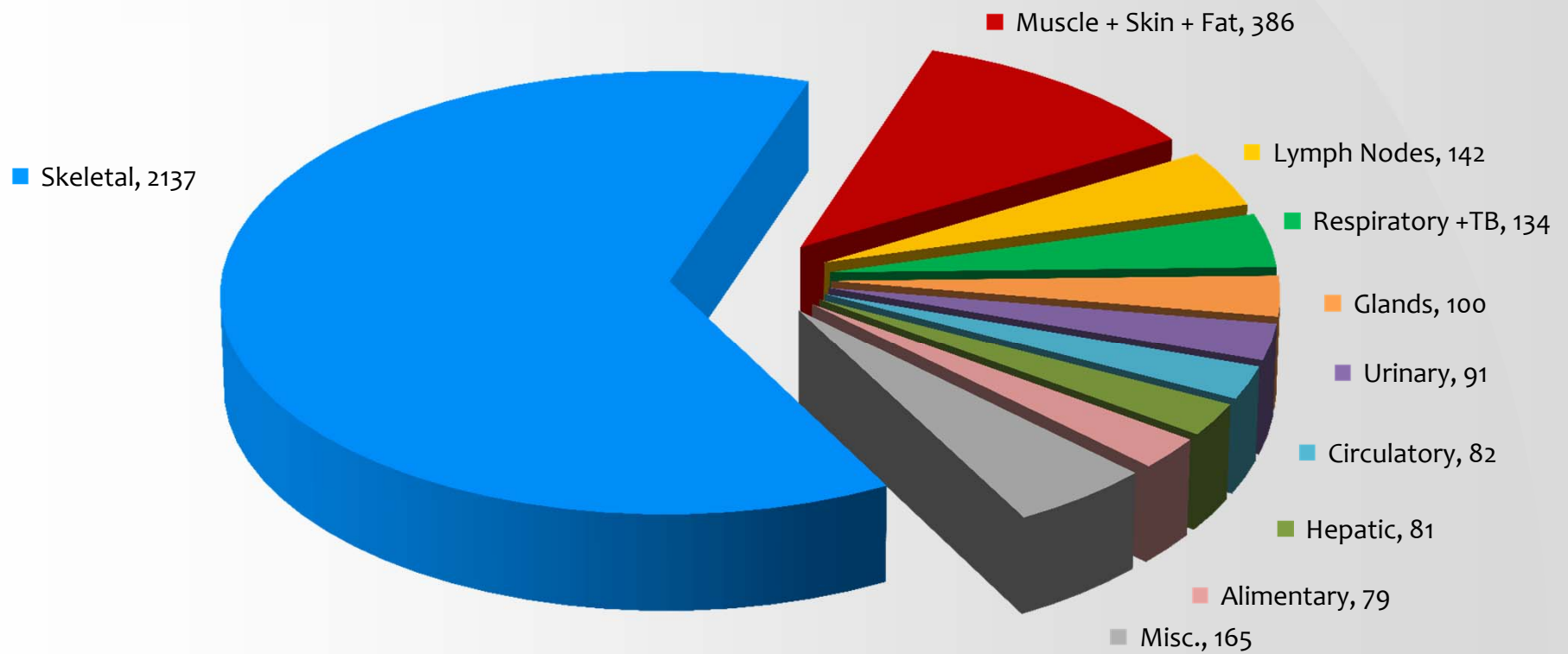
Bottles that have been wrapped in absorbent mat and boxed.

Two sources of samples:

- Recently dissolved USTUR tissues
- Repackaged “historic” acid solutions
 - ✓ LANL
 - ✓ NRC/USTUR



Acid Solutions by Tissue Type



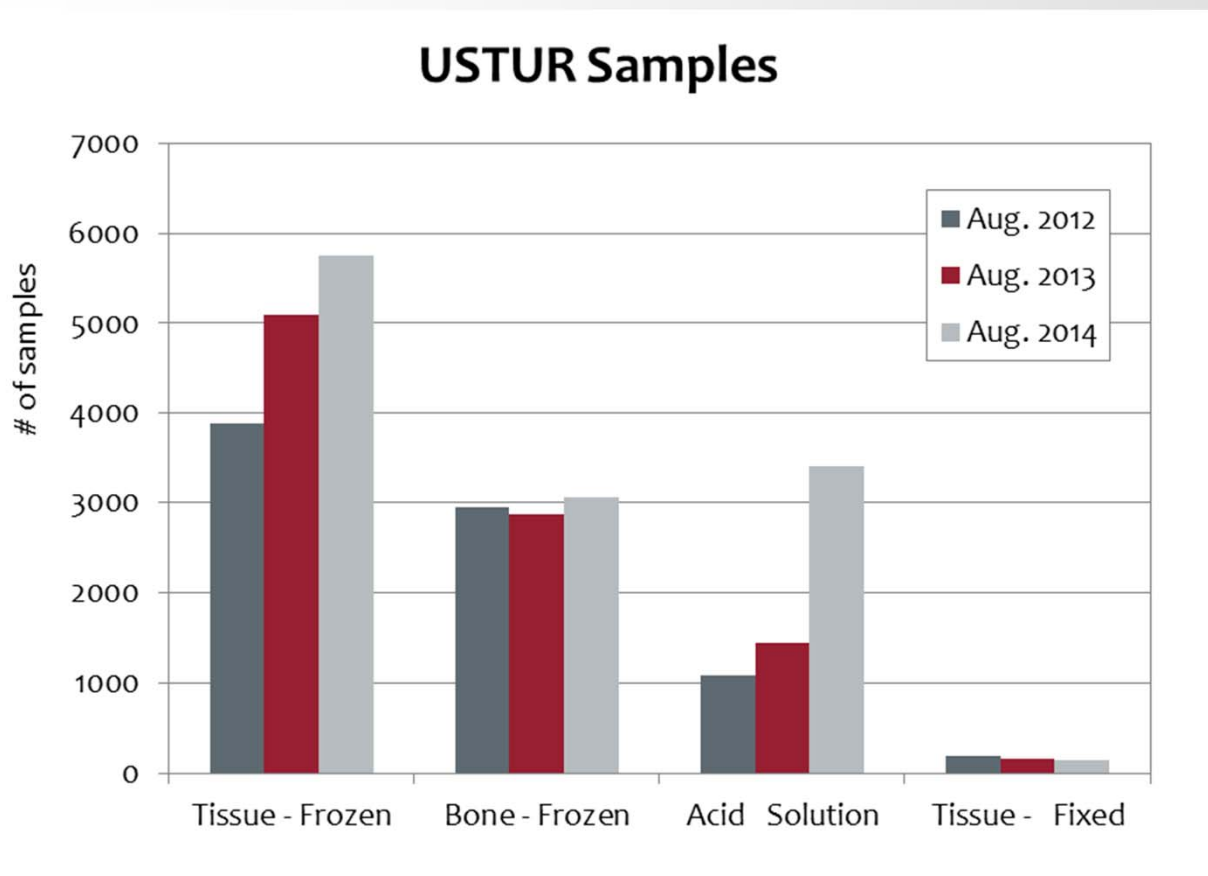
Planchet Inventory

- Two-step process:
 - ✓ Excel inventory (completed)
 - ✓ THEMIS inventory

Plutonium	1,608	277 Bq
Americium	1,636	89 Bq
Uranium	418	10 Bq
Thorium	301	1 Bq



Data Trends since previous SAC meetings



- Net changes
- Excludes subsamples



Questions?

A scenic landscape featuring a winding river, lush greenery, and a large, rounded mountain in the background under a blue sky with scattered white clouds.