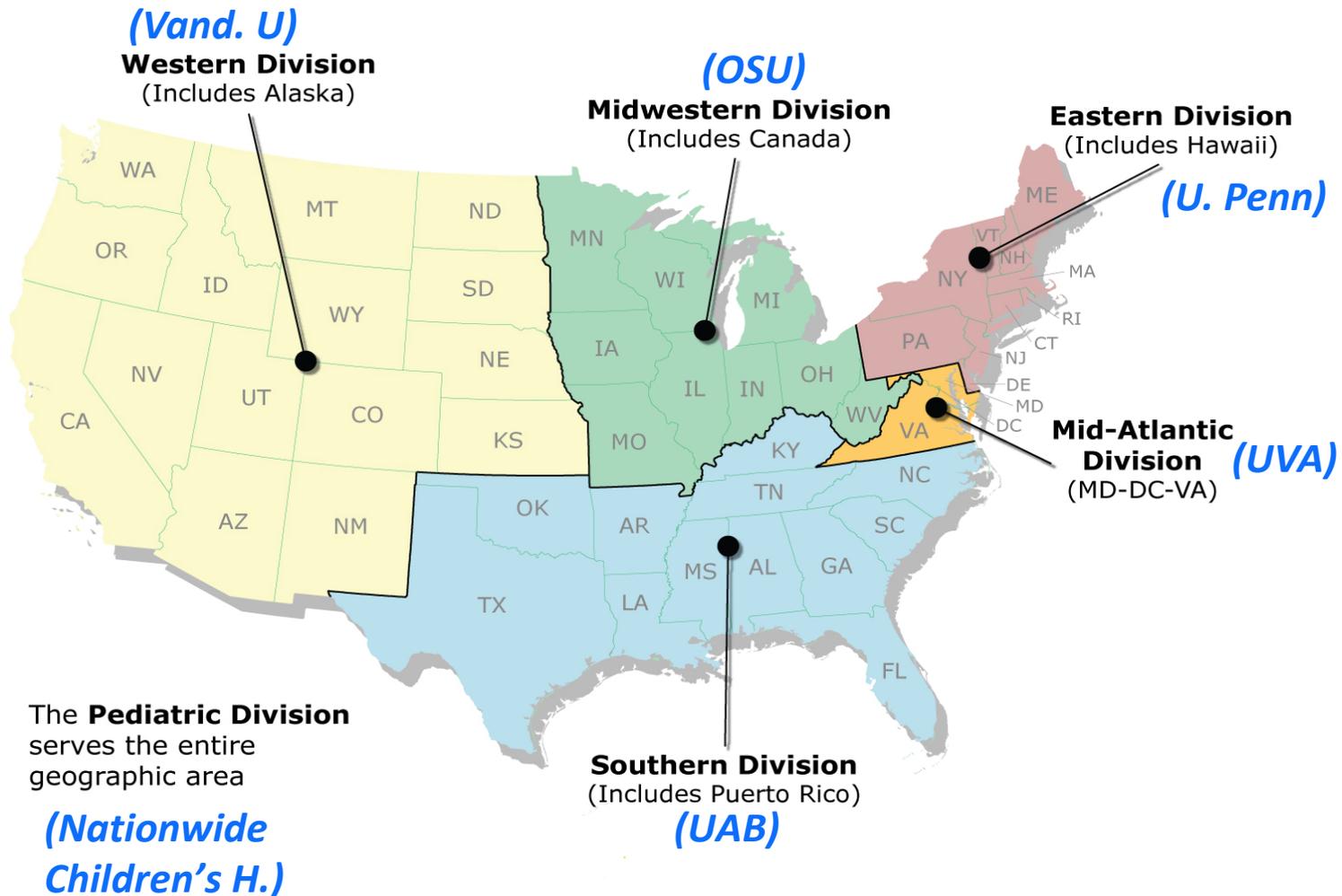


Cooperative Human Tissue Network (CHTN)
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Cancer Diagnosis Program, DCTD, NCI
BSA, March 20, 2018



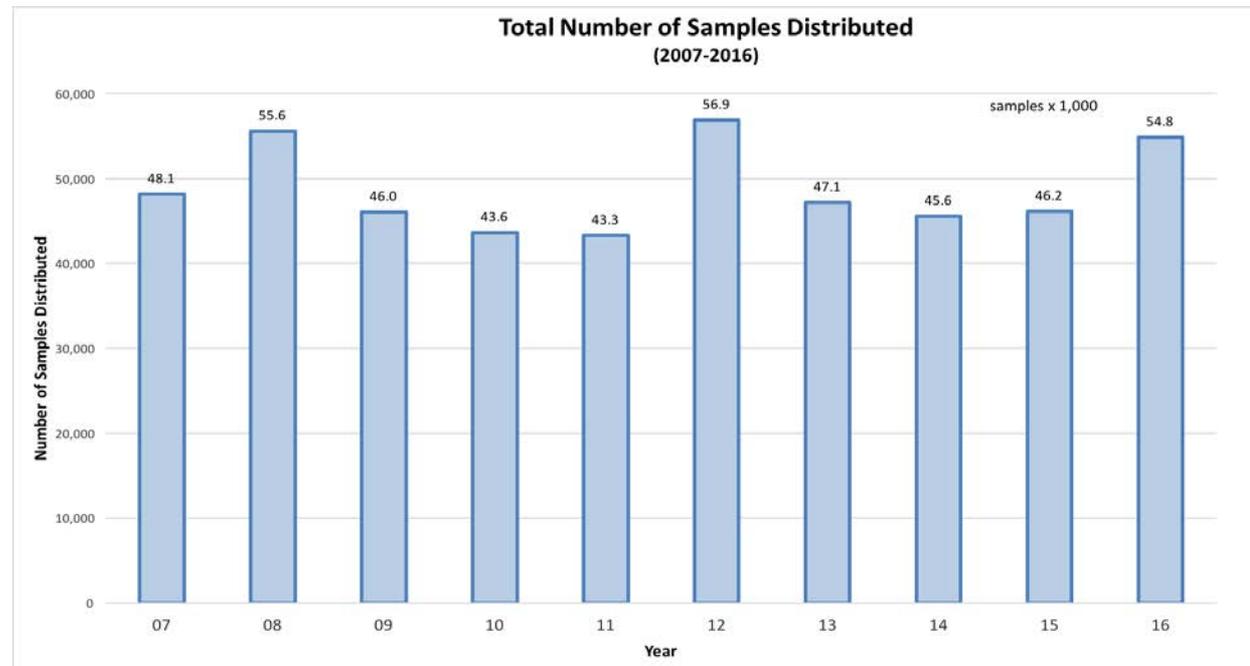
CHTN – a Unique Biospecimen Resource

	BIOREPOSITORIES	CHTN
Procurement	Banking for future research	Prospective procurement based on a scientific question. Primary Surgery
Specimen Storage and Distribution	Stored at the repository	Distributed upon procurement
Data Associated with Specimens	Variable, may include clinical data	Pathology report. De-identified. Waiver of consent
Sample Preservation	Mostly FFPE, limited Fresh/frozen samples	Fresh/frozen samples, customized processing
Range of Samples	Usually targeted sets of samples	Wide range (tumor, normal, matched controls, rare samples)
Access	Specific research fields	Entire scientific community
Research Supported	Variable	Early discovery and translational research, assay development
Sample Utilization	Variable	Near 100%

CHTN-Scientific Impact 2012-2016

- ❑ 1,125 Individual researchers served:
 - 77% Academic Investigators; 2/3 R01s;
 - 18% Industry; 5% NIH Intramural, DOD

❑ 250K samples distributed 2012-2016



- ❑ Publications and patents (since 2012)
 - 854 publications; > 1/3 Impact Factor (IF) > 5
 - 103 patents
- ❑ CHTN PIs: Contributed to Biospecimen Science; Established Best Practices in Biobanking; Leaders in Biospecimen Organizations

CHTN Funding

➤ Funding

- UM1 Cooperative Agreement-RFA
- Up to 6 awards; Open Competition
- Current funding level: \$5M per year
- Requested funding for up to 6 awards: Total per year: \$5.8 M
Total for 5 years = \$29 M

Cost for Sample Preparation:

-̄ cost/sample \$150 (all sample types); \$50 academic, \$180 industry user

-50K samples/yr x \$150 = 7.5M/yr = Total cost for sample preparation

-Investigator charge only covers \$3.5M of sample cost/yr; 4M is covered by NCI grant funds

Funding for:

a) 20% increase in more elaborate requests (fresh samples, fluid samples, chart review, others): \$700K/yr

b) Need for dedicated, central IT support (open competition); hosting, maintenance and upgrading the system: \$100K/yr

Main Goal: Continue supplying samples to research community at large (Marketing)