

Disclaimers

"Reducing Human Trafficking through Forensics in Central America" (Award Number S-INLEC-19-GR-0383 and S-INLEC-20-GR-3160), US Department of State.
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Situation at the US-Mexico Border

- ➤ Migration numbers are up from Mexico, Central and South America
- ➤ Bodies found along the border face identification challenges
- ➤ Identifiers found on body often false (fake ID's)





- No fingerprints on record, or skeletal remains
- Lack of dental or medical recordsLack of reference samples for DNA identifications

Identification of Migrant Remains

- >Offender hits may be found in the national database, but the arrest may have been made under a false identity
- Families in foreign countries don't have access to U.S. CODIS searches

There is a need to have family reference profiles (FRP) in a DNA database to compare to remains DNA profiles

Family Reference Samples

- ➤ Where to get family reference DNA profiles (FRP)?
 - ➤ Consulates within the US
 - ➤ Reference DNA profiles developed by laboratories in other countries
 - ► Laboratories must demonstrate use of a QMS
 - ➤ Demonstration of proper SOPs and Quality Checks
 - >Accreditation is preferred
 - ➤ References collected with specific consent to search in foreign DNA databases
 - Reference DNA profiles collected by NGOs and developed by private DNA laboratories in the U.S.
 - >(see above)

Humanitarian DNA Identification Database (HDID)

- ➤ As deaths increase at the southern U.S. border a solution to this tragedy becomes more and more important.
- We have the tools (DNA databases) – how can we take advantage of it to identify these persons?



Humanitarian DNA Identification Database (HDID) "Our need will be the real creator." - Plato, Republic

Bureau of International Narcotics and Law Enforcement (INL) Grant

- ➤ Grant received by UNTCHI in 2017
- ➤ One goal is to assist in developing Forensics, specifically DNA and DNA databases in Central America, as well as assisting in creating legislation for these databases
- >This put UNTCHI into a unique position from which to achieve the goals of migrant identification

Humanitarian DNA Identification Database (HDID)

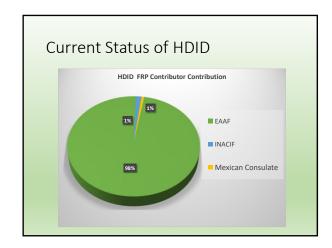
- ➤ Discussions in 2018 began between the Center for Human ID and the FBI Laboratory
- Concept of a separate, standalone CODIS server that would satisfy the privacy and confidentiality needs of foreign governments and their citizens

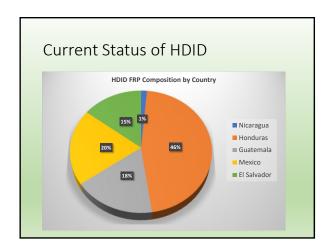


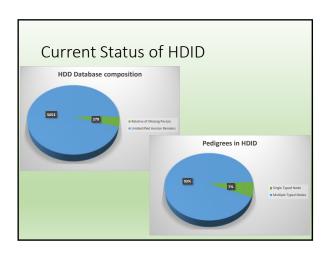
Humanitarian DNA Identification Database (HDID) >Talks with Non Governmental Organizations and DNA labs to determine their needs relative to DNA profile storage and searching in the U.S. >Separate policies and procedures drafted and formalized Privacy Security Accountability

Humanitarian DN Identification Dat	•			
 MOU established between FBI and UNTCHI in 2019 Pilot program to attempt to identify migrant remains using family reference DNA profiles developed in approved laboratories from other countries 				
> A couple of informative publications				
Forensic Science International: Genetics Supplement Series Volume 3, Neural 1, December 2019, Pages 431-435				
Human trafficking – Multinational challenge for forensic science	International Journal of Logal Medicine (2020 134, 2019-2044 Integral idea my 1/th 007-000944 4000-4209-9 SHORT COMMUNICATION			
Singables 15, Bull * A.R. Tun Schillery B. Sover Solowe*	A standalone humanitarian DNA identification database system to increase identification of human remains of foreign nationals Brore Budoné ^{1,2} - Mogdéne M. Rei ^{2,3} - Moidy A. Dourned ^{1,3} - Doke L. Pern ¹ Mental J. J. R. Sill - Money J. Juga 250, 3 (Annual Jug			

Humanitarian DNA Identification Database (HDID) Software set up at UNTCHI Standalone, air-gapped server containing CODIS 9 software Unidentified remains profiles developed at UNTCHI were entered into HDID server First 4 FRPs received in February of 2023, post COVID shutdowns Pedigree trees created and first searches occurred Initial search of first 4 pedigrees produced a rank!







Current Status of HDID

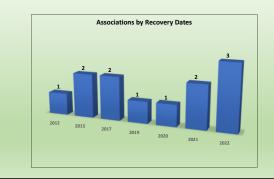
➤ Associations reported since February of 2023:



>Associations pending reporting (waiting on additional information prior to reporting):



Current Status of HDID



Future Steps

- ➤ Continue to receive and search family reference profiles from non-U.S. labs
- ➤ Work with additional partners (NGOs and other laboratories in Central and South America) to expand submissions of family reference profiles
- Explore the possibility of a pilot program to receive additional unidentified human remains profiles from other CODIS participating labs on or near the U.S. Border

Summary

- > Family reference profiles are needed to identify deceased migrants
- ➤The Humanitarian DNA Identification Database at the UNTCHI in conjunction with the FBI provides a way to compare these references to unidentified remains
- ➤The INL grant has given us the opportunity to assist laboratories in Central America with improved testing and sample collection practices
- These two entities (HDID and INL Grants) dovetail nicely to identify remains in the U.S.

