

National Institute of Justice

Award Title: Isotope Analyses of Hair as a Trace Evidence Tool to Reconstruct Human Movements: Combining Strontium Isotope with Hydrogen/Oxygen Isotope Data

Award Description:

This project will explore the investigative use of hair analysis as a method for determining an individual's travel histories and region-of-origin. The project will involve the analysis of strontium isotope ratios of (a) 200+ in-house archived hair samples previously collected from throughout the United States and originating from regions with different soil strontium isotope ratio values and (b) new intra-city collections needed to differentiate exogenous from endogenous strontium contributions. The proposed hair $87\text{Sr}/86\text{Sr}$ model/map will be combined with previously developed hair hydrogen and oxygen isotope models/maps to create a multi-proxy and high fidelity geo-location tool of forensic relevance.

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Awardee Name: IsoForensics, Inc.

Award Number: 2011-DN-BX-K544

Solicitation Title: NIJ FY 11 Basic Scientific Research to Support Forensic Science for Criminal Justice Purposes

Fiscal Year: 2011

Amount: \$342,606.00

Earmark: No

Recovery Act: No

State/Territory: UT

County: Salt Lake

Congressional District: 02

Award Status: Open