



DAVID HANSEN
Forensic DNA Analyst
Curriculum Vitae

PROFESSIONAL EXPERIENCE

Mr. Hansen joined Forensic Analytical Crime Lab in December 2012. He specializes in the examination of physical evidence for human biological material and the isolation, extraction, quantification, amplification, and genetic analysis of DNA using state-of-the-art PCR-based autosomal and Y chromosome STR analyses via capillary electrophoresis. He has experience in the examination of evidence from both criminal and civil casework.

PROFESSIONAL AFFILIATIONS

- California Association of Criminalists Associate Member, current
- American Board of Criminalistics Molecular Biology Fellow, current

EDUCATION

- Master of Science, Forensic Science, University of California, Davis, CA, 2012
- Bachelor of Science, Public Health, minors in Biology and Chemistry, Cum Laude, Utah State University, UT, 2005

OTHER PROFESSIONAL EXPERIENCE

- Assistant Forensic Serologist, Serological Research Institute (SERI), Richmond, CA, 2011-2012
 - Assisted Senior Serologists in the examination of evidence, performing presumptive and confirmatory tests, and STR genetic analyses on human biological material from both criminal and civil cases. Extracted DNA using both manual (organic) and automated methods. Used the ABI 7500 Real-Time PCR system with both Quantifiler Human and Duo commercial kits to quantify DNA and amplified extracted DNA using Identifiler, Identifiler Plus, Yfiler, MiniFiler, Profiler Plus, and COfiler commercial kits. Analyzed and interpreted STR and Y typing results using Genemapper ID and Genotyper on data collected from the ABI 310 and 3130xl genetic analyzing instruments.
 - Aided in the validation of Qiagen EZ1 Advanced XL Robot by comparing its DNA extraction capability against manual organic extraction.

SPECIALIZED TRAINING

- STRmix™ USA Training Workshop, Oakland Police Department, Oakland, CA, February 21–24, 2017.
- R500 Kinship Analysis, California Criminalistics Institute, California Department of Justice, Richmond, CA, August 15–19, 2016.
- ANAB ISO/IEC 17025 and Audit Preparation Workshop for Forensic Test Agencies, Tampa, FL, March 23–25, 2015.

PUBLICATIONS & PRESENTATIONS

- *Low-level DNA: An Investigation of Collection and Extraction Methods from Various Substrates* presented to the UC Davis Forensic Science Graduate Program, 2012 Fall Seminar, Davis, CA.
- *Low-Level Biological Evidence and Complex DNA Mixture Issues* presented at the Forensic Analytical Labs DNA Seminar, May 2014.