



Call our experts to discuss:

- Cold Case Backlog
- Low Copy Number DNA (LCN DNA) Cases
- Difficult and Degraded Cases
- mtDNA, Nuclear DNA and Pathogenic DNA Cases

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ISO/IEC 17025 Accredited

FORENSIC ANALYSIS



ISO/IEC 17025 Accredited

Forensic Analysis at the Paleo-DNA Laboratory

Methodologies developed at the Paleo-DNA Laboratory for testing exceptionally difficult and degraded samples have enabled our team to assist police forces, medical examiners, and crime laboratories.

We have served clients from the United States, Canada, Australia, Europe, the Pacific rim and the Middle East with the identification of individuals for criminal and civil cases, body identification and other forensic cases.

Past forensic casework includes:

- Profiling victims of war crimes for the United Nations
- Profiling remains of soldiers from WWI for the Canadian Armed Forces
- Recovery of DNA from the Weerdinge Bog Bodies and Egyptian Mummies

Research and the Paleo-DNA Laboratory

All proceeds from Paleo-DNA Laboratory services are used for the non-profit activities of research and teaching at Lakehead University.

Our ISO 17025 laboratory performs CAN-P-4D and CAN-P-1578 accredited forensic biology/DNA testing. We specialize in extremely difficult and degraded samples.



Forensic Analysis Services

The Paleo-DNA Laboratory has developed leading-edge molecular techniques for genetic analysis of all biological materials.

Our protocols were developed for use with ancient and degraded DNA samples and, therefore, enable the extraction and analysis of limited-source DNA samples.

We specialize in difficult and Low Copy Number DNA (LCN DNA) samples such as:

- Skeletal (bone, teeth)
- Hair (shaft or root)
- Residue
- Burned biological material
- Limited source DNA samples (ie: chewing gum, cigarettes)

Our Laboratory Offers

- Professional accredited forensic analysis
- mtDNA, nuclear DNA & Pathogenic DNA analysis
- Highly degraded and difficult biological sample (LCN DNA) analysis
- Biochemical and Genetic Identification of biological fluids
- Expert testimony and opinions

Accredited

We provide Standards Council of Canada CAN-P-4D and CAN-P-1578 forensic biology/DNA human identification services for mitochondrial DNA, STR, and Y-SRT samples in our ISO 17025 accredited laboratory.

Accurate

Our experienced scientists use the latest technology and forensic-endorsed equipment.

Reliable

We are recognized as a world leader in human identification using DNA testing on highly degraded samples.

Physicians, lawyers, police forces, and government organizations such as the United Nations, the Canadian Armed Forces, and the Royal Canadian Mounted Police have used our forensic services.

Large Capacity for Case Backlogs

We have the capacity to handle an extremely large number of samples to eliminate cold case backlogs as well as process large projects.

Fast

The processing time for each case is generally 4 weeks after receipt of all samples.