



Othram Inc.

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To Whom It May Concern:

Othram is the world's first private DNA laboratory built specifically to apply the power of modern parallel sequencing to forensic evidence. Our team combines laboratory science, software, and process, to build a better and more robust infrastructure for justice. Our laboratory scientists are experts at recovery, enrichment, and analysis of human DNA from trace quantities of degraded, damaged, or contaminated materials.

Developed by Othram, Forensic-Grade Genome Sequencing® or FGGS® is used by local, state, and federal law enforcement agencies across the United States and internationally to break through previously impenetrable forensic DNA barriers and close previously unsolvable cases. **More forensic genetic genealogy cases have been solved with Othram FGGS® than any other method.**

Othram is committed to continuous iteration and improvement, learning from each case, and refining our technology and our processes regularly. We uniquely operate a full research and development laboratory that runs parallel to our forensic lab.

Othram is the only service provider that offers:

- Othram performs all forensic casework-related services in-house to build a SNP profile with more than 100,000 markers from original evidence (DNA extraction through genealogy)
- Forensic Grade Genome Sequencing technology for all casework-related services in-house. This service includes:
 - FGGS Suitability Analysis through internal Quality Control (QC) testing to evaluate the likelihood of successfully building a SNP profile from evidence or a DNA extract, as well as the approach to determine the testing method to successfully develop the SNP profile.
 - A proprietary process to ensure human DNA burden by bacterial and other non-human DNA sources can be successfully utilized.
 - A proprietary process to ensure that damaged DNA, chemically or otherwise, can be successfully utilized. This includes DNA treated with formaldehyde or recovered from FFPE blocks.
 - A proprietary process for working from DNA evidence, even when degradation index (DI) exceeds 10,000.
 - A proprietary process that generates profiles from mixtures of multiple contributors.
- Proprietary KinSNP testing for pairwise comparison between two samples. Provide kinship comparisons of SNP profiles that do not require upload to public or online databases. The resulting output is a direct comparison forensic report (delivered in PDF format) between two samples that provides details of a genetic relationship, as well as an analysis of all potential relationships. Othram uniquely and exclusively offers completely offline & fully secure kinship and familial testing with SNP markers.
- In-house services with an exclusive focus on forensic DNA testing for forensic genetic genealogy purposes (no consumer, medical, or other testing).
- Experience testifying in front of a jury to all data generated in the development of an investigative lead using forensic genetic genealogy from in-house laboratory services.

Additionally, Othram provides the following capabilities and services that are beneficial to our law enforcement partners.

Laboratory Capabilities

Othram's in-house laboratory service includes the following capabilities:

- DNA extraction of any evidentiary items, including skeletal remains.
- Generation of a SNP profile that is universally compatible with genealogical databases and compatible with typical genealogical tools that leverage shared segments and centimorgan calculations (cM) to help identify and characterize genetic relationships.

Please contact with any further questions.

Sincerely,
Andrew Singer
Chief Commercial Officer