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Kort præsentation

Current research

Population and Forensic genetic applications of mtDNA

Research description

The use of mtDNA in forensic genetics has proven to be an important tool in the analysis of trace samples where nuclear DNA is often degraded and/or present in low amounts. However, the interpretation and reporting of mtDNA still faces challenges, particularly regarding inclusion/exclusion scenarios in inclusive cases, and concerning reporting heteroplasmy. With the emergence of massively parallel sequencing, the threshold for detecting and reporting mtDNA heteroplasmy are changing and becoming more sensitive. More data are needed to evaluate and determine new standards for forensic casework. Furthermore, the somatic mutation rates in different human tissues must be explored to improve the interpretation of forensic evidence.

Ansættelse

Ph.d.-stipendiat

Afdeling for Retsgenetik
København Ø, Danmark
1 jun. 2023 → nu

Tidligere erhvervserfaring

Jan. - Sep. 2022 Postgraduate intern in Genetics, University of Leicester, Department of Genetics and Genome Biology
Jun. - Jul. 2021 Research Assistant in Epigenetics, Erasmus MC, Department of Genetic Identification
Feb. - Jun. 2021 Undergraduate Intern in Epigenetics, Erasmus MC, Department of Genetic Identification
Sep. 2019 - Jan. 2020 Intern Forensic Investigations, Dutch Police

Uddannelse

2021-2022 MSc in Molecular Genetics, University of Leicester
2017-2021 BSc in Forensic Science, Amsterdam University of Applied Sciences
2020 Exchange semester, Danmarks Tekniske Universitet

Sprogfærdigheder

Hollandsk: modersmål
Engelsk: fuldt kompetent
Tysk: grundlæggende færdigheder

Priser og certifikater

1. GE Healthcare Prize 2023, tildeles af The University of Leicester.
2. Best graduating student 2020/2021, tildeles af The Chartered Society of Forensic Sciences