

Human Identification and Forensic DNA

Module Information

2022.01, Approved

Summary Information

Module Code	7106NATSCI
Formal Module Title	Human Identification and Forensic DNA
Owning School	Biological and Environmental Sciences
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
Biological and Environmental Sciences

Learning Methods

Learning Method Type	Hours
Lecture	12
Practical	10
Seminar	10
Workshop	8

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	The students comprehensively analyse the problems related to the identification of an unknown subject from both skeletal and genetic features. The module provides an in-depth critical understanding of the techniques and the methodology involved in the skeletal identification of human remains in the field of Forensic Anthropology. The aim of this module is also to introduce the students in the use of a DNA typing approach for the identification of human remains.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Critically evaluate methods for sex determination from human skeletal materials
MLO2	2	Critically evaluate methods for age estimation from human skeletal materials
MLO3	3	Critically evaluate methods for ancestry estimation from human skeletal materials
MLO4	4	Explain and critically evaluate the principles of DNA identification, their advantages and their limitations.
MLO5	5	Effectively present the results of DNA analysis in the form of a professional report.

Module Content

Outline Syllabus	- sex estimation from cranium and pelvis, both complete and fragmentary- age estimation in adults and juveniles, both from complete and fragmentary materials- ancestry estimation- genetic identification
Module Overview	The module provides an in-depth critical understanding of the techniques and the methodology involved in the skeletal identification of human remains in the field of Forensic Anthropology. You will use a DNA typing approach for the identification of human remains.
Additional Information	The students will comprehensively analyse different techniques for the evaluation of a biological profile from human skeletal remains. Students completing the module will demonstrate a critical understanding of both genetic and skeletal method for human identification.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Presentation	Oral presentation	60	0	MLO1, MLO2, MLO3
Presentation	Genetics portfolio	40	0	MLO4, MLO5

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Matteo Borrini	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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