

V Module

Ancient DNA & Old skeletal remains

Is a 1 week (Monday to Friday) academic summer programme to introduce participants on forensic anthropology with practical course Laboratory.

The aim of the course is also to explain how the difficulties with authenticating ancient DNA have made genetic studies problematic.

V - Module - Ancient DNA & Old skeletal remains					
14 - 19 September 2015					
Week VIII					
Week 14 - 19 September	Mon. 14	Tues.15	Wed.16	Thu.17	Fri.18
9.00 - 10.30	Welcome & participant registration	Genetic analysis of the skeletal remains attributed to Francesco Petrarca ³	Mitochondrial DNA & ancient remains ⁵	Monitoring DNA Contaminations & Ancient Human Skeletal Remains ⁸	TEST
10.45 - 13.15	Course presentations ¹		Human Y chromosome phylogeny and the spread of Homo sapiens using Next Generation Sequencing data ⁶		Geographic population structure analysis (GPS) for inferring the biogeographical origins of human samples ⁹
13.30 - 14.30	<i>Lunch provided by CERISDI</i>				
14.30 - 15.30	Skeleton Biology & forensic application ²	Forensic Anthropology best practices ⁴	Laboratory Analysis for forensic anthropologists ⁷	Computer practice: reconstructing of Y chromosome phylogeny ¹⁰	Open Seminars ¹¹
15.45 - 17.15					
					Certificate Ceremony & Farewell Dinner

1 - Course presentations:

Elena Carra, Ph.D. - Department of Biological, Chemical and Pharmaceutical Sciences and Technologies STEBICEF - University of Palermo, Italy: Introduction on Ancient DNA

Luca Sineo, Ph.D. - Department of Biological, Chemical and Pharmaceutical Sciences and Technologies STEBICEF - University of Palermo, Italy: Introduction of Forensic Anthropology

Courses/Module/ Speakers:

2, 4, 7, 11 - Prof. Luca Sineo, Ph.D. - Department of Biological, Chemical and Pharmaceutical Sciences and Technologies STEBICEF - University of Palermo, Italy

3, 5, 8, 11 - Prof. David Caramelli, Ph.D. - Department of Biology, Molecular Anthropology Paleogenetics Unit- University of Florence, Italy;

6, 9, 10, 11 - Prof. Paolo Francalacci - Department of Nature sciences and Territory, University of Sassari, Italy

Final Course Verification / only for participants that choose 4 week study programme (Modules I, IV , V) for basic knowledge of forensic sciences.

Each participants will be obliged to hold a seminar on specific topics that will choose on some recent scientific papers selected by the exam commission

V – Module - Ancient DNA & Old skeletal remains
14 – 19 September 2015
Week VIII

Monday 14 August

9.00 – 9.30	Registration
10.00 – 10.30	Opening addresses
	L. Sineo (Palermo - I), E. Carra (Palermo - I)
10.30 – 11.00	<i>Coffee Break</i>
11.00 – 12.00	Course Presentations: Introduction of Forensic Anthropology
	L. Sineo (Palermo - I)
12.00 – 12.30	Introduction on Ancient DNA: Problems and Prospects
	E. Carra (Palermo - I)
13.30 – 14.30	<i>Lunch</i>
15.00 – 16.30	Skeleton Biology & forensic application-1
	L. Sineo (Palermo - I)
16.30 – 16.45	<i>Break</i>
16.45 – 18.00	Skeleton Biology & forensic application-2
	L. Sineo (Palermo - I)

Tuesday 15 August

9.00 – 10.30	Genetic analysis of the skeletal remains attributed to Francesco Petrarca-1.
	D. Caramelli (Firenze - I)
10.30 – 11.00	<i>Coffee Break</i>
11.00 – 13.15	Genetic analysis of the skeletal remains attributed to Francesco Petrarca-2.
	D. Caramelli (Firenze - I)
13.30 – 14.30	<i>Lunch</i>
15.00 – 16.30	Forensic Anthropology best practices-1
	L. Sineo (Palermo - I)
16.30 – 16.45	<i>Break</i>
16.45 – 17.30	Forensic Anthropology best practices-1
	L. Sineo (Palermo - I)

Wednesday 16 August

9.00 – 10.30	Mitochondrial DNA & ancient remains
	D. Caramelli (Firenze - I)
10.30 – 11.00	<i>Coffee Break</i>
10.45 – 13.15	Human Y Chromosome phylogeny and the spread of Homo sapiens using Next Generation Sequencing data
	P. Francalacci (Sassari - I)
13.30 – 14.30	<i>Lunch</i>
	<i>Transfer at University of Palermo to STEBICEF Department by shuttle bus</i>
15.30 – 17.30	Practical course: Laboratory Analysis for forensic anthropologists
	L. Sineo (Palermo - I)

Thursday 17 August

9.00 – 10.30	Monitoring DNA Contaminations & Ancient Human Skeletal Remains
	D. Caramelli (Firenze - I)

10.30 – 11.00	<i>Coffee Break</i>
11.00 – 13.15	Geographic population structure analysis (GPS) for inferring the biogeographical origins of human samples P. Francalacci (Sassari - I)
13.30 – 14.30	<i>Lunch</i>
15.00 – 16.30	Computer practice-1: reconstructing of Y chromosome phylogeny P. Francalacci (Sassari - I)
16.30 – 16.45	<i>Break</i>
16.45 – 17.30	Computer practice-2: reconstructing of Y chromosome phylogeny P. Francalacci (Sassari - I)

Friday 18 August

9.00 – 11.00	TEST
9.00 – 13.15	Final Course Verification Only for participant that choose 4 week study programme (I, IV, V-Module) for basic Knowledge of forensic sciences
13.30 – 14.30	<i>Lunch</i>
Open Seminars for Officers of the Italian Court and criminal justice professionals	
15.30 – 16.30	<i>Free Topic & Discussion</i> L. Sineo (Palermo - I)
16.30 -16.45	<i>Break</i> <i>Free Topic & Discussion</i>
16.45 – 17.30	D. Caramelli (Firenze - I)
18.00 – 20.00	<i>Free time</i>
20.00 – 23.00	Certificate Ceremony & Farewell Dinner