

The Hebrew University of Jerusalem

Israel Institute for Advanced Studies

INTERNATIONAL RESEARCH CONFERENCE ON

Studying Human Evolution from Ancient DNA

May 17-20, 2015

Organizers:

Liran Carmel and Gila Kahila Bar-Gal (The Hebrew University of Jerusalem)

(All lectures will take place at the Israel Institute for Advanced Studies, Edmond J. Safra campus of The Hebrew University of Jerusalem, Feldman Building, Givat Ram)

Sunday, May 17

9:00 - 10:15 10:15 - 10:30	Registration Opening remarks			
10:30 - 13:00	Session: Human Evolution			
	10:30 - 11:00	Mattias Jakobsson, Uppsala University, Sweden		
		The genomic footprints of Neolithic Europeans		
	11:00 - 11:30	Israel Hershkovitz, Tel Aviv University, Israel		
		A 55 thousand year cranium from Manot Cave (Israel) and its		
		relevancy to modern human evolution		
	11:30 - 12:00	Coffee break		
	12:00 - 12:30	Albert Zink, EURAC Research, Italy		
		Paleogenomics of mummies: insights into the genetic ancestry of the Iceman and disease predisposition		
	12:30 - 13:00	Cristina Gamba, Natural History Museum, Denmark		
		A 5,000-year journey into European prehistory: genomes from the petrous bone		
13:00 - 15:00	Lunch			
15:00 - 17:30	Session: Population Genetics (chair: Mattias Jakobsson)			
	15:00 - 15:30	Johannes Krause, MPI for the Science of Human History,		
		Germany		
		Ancient human genomes suggest three ancestral populations for modern Europeans		
	15:30 - 16:00	Eran Halperin, Tel Aviv University, Israel		
		-		

Inference methods for not-so-ancient ancestry 16:00 - 16:30 Coffee break 16:30 - 17:00 Clio der Sarkissian, Natural History Museum, Denmark Microbial metagenomics of archaeological remains - tapping into the unseen majority 17:00 - 17:30 Hila May, Tel Aviv University, Israel Non-evolutionary issues in aDNA studies

17:30 – 17:45 **Greetings**

18:00 – 22:00 Reception and Posters

Monday, May 18

10:00 - 13:00	Session: Domestication of Animals and Plants (chair: Albert Zink)		
	10:00 - 10:30	Ludovic Orlando, Natural History Museum, Denmark	
		A paleogenomic perspective on horse domestication	
	10:30 - 11:00	Almut Nebel, Kiel University, Germany	
		Direct insights into phenotype selection during pig domestication by aDNA analysis	
	11:00 - 11:30	Meirav Meiri, Israel Finkelstein, Tel Aviv University, Israel	
		Ancient DNA of pigs and Mobility between the Aegean and the Levant in the Late Second Millennium BCE	
	11:30 - 12:00	Coffee break	
	12:00 - 12:30	Dan Bradley, Trinity College Dublin, Ireland	
		The best bones, parchment and ancient genomics	
	12:30 - 13:00	Elyashiv Drori, Ariel University, Israel	
		Deep sequencing of aDNA as a tool towards solving the mystery of	
		Israel's lost grapevine varieties	
13:00 - 15:00	Lunch		
15:00 - 16:00	Session: Human Archaeology in the Southern Levant		
	15:00 – 15:30	Naama Goren-Inbar, The Hebrew University of Jerusalem, Israel	
		Out of Africa: a levantine perspective	
	15:30 – 16:00	Charles Greenblatt, The Hebrew University of Jerusalem, Israel	
		Molecular archaeology of the Holy Land	
16:00 – 19:00	Tour of the old city of Jerusalem		
19:00 - 22:00	Dinner in the old city of Jerusalem		

Tuesday, May 19

8:30 – 10:00 Tour at the paleonthological and archaeozoological collections, National Natural History Collections, Institute of Earth Sciences, Institute of Archaeology, The Hebrew University of Jerusalem.
10:00 12:00 Session Pathogons of Ansient Deputations (shair Johannes Krause)

10:00 - 13:00	Session: Pathogens of Ancient Populations (chair: Johannes Krause)		
	10:00 - 10:30	Mark Pallen, University of Warwick, UK	
		Metagenomic recovery of historical pathogen genomes from Brucella and Mycobacterium Tuberculosis	
	40.20 44.00	,	
	10:30 – 11:00	Daniel Shouval, The Hebrew University of Jerusalem, Israel	
		Tracing Hepatitis B virus to the 16th century in a Korean mummy	
	11:00 - 11:30	Suheir Ereqat, Al-Quds University, Palestinian Authority	
		Molecular detection and identification of Mycobacterium Tuberculosis	
		in an early Bronze Age skeleton from tell es-Sultan, ancient Jericho	
	11:30 - 12:00	Coffee break	
	12:00 - 12:30	Mark Spigelman, The Hebrew University of Jerusalem, Israel	
	12.00 - 12.50	Mutuaslism -how bacteria helped shape human evolution and vice	
		versa	

	12:30 - 13:00	Marina Faerman, The Hebrew University of Jerusalem, Israel In pursuit of Malaria	
13:00 - 15:00	Lunch	, ,	
15:00 - 18:00	Session: Ancient DNA Technology (chair: Ludovic Orlando)		
	15:00 - 15:30	Yigal Erel, The Hebrew University of Jerusalem, Israel	
		Toxic metals in Iron Age humans from the Faynan area, Jordan: what can geochemical tools tell us?	
	15:30 - 16:00	Rasmus Nielsen, UC Berkeley, USA	
		Robust estimation of ancestry for ancient DNA	
	16:00 - 16:30	Carla Oz, Israel Police, Israel	
		Forensic DNA and the Israel police: present and future	
	16:30 - 17:00	Coffee break	
	17:00 - 17:30	Steve Weiner, Weizmann Institute of Science, Israel	
		3D hierarchical organization of lamellar bone: bone is composed of two different materials	
	17:30 - 18:00	Ben Krause-Kyora, Kiel University, Germany	
		Insights into the evolutionary history of Mycobacterium Leprae gained from sequencing medieval genomes	
18:00 - 22:00	Tour and dinner at the Israel Museum		

Wednesday, May 20

6:00 – 22:00 Excursion to northern Israel