



*XIV International meeting  
3rd to 7th of June  
Barcelona*

## PROGRAMME & ABSTRACT BOOK

**Organizers:**



**Museu d'Arqueologia  
de Catalunya**



**Generalitat  
de Catalunya  
Agència Catalana  
del Patrimoni Cultural**



**IPHES<sup>R</sup>**  
**Institut Català de Paleoecologia  
Humana i Evolució Social**



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## OUR SPONSORS



### International Council for Archaeozoology

The International Council for Archaeozoology (ICAZ) is a nonprofit organization devoted to promoting archaeozoological research of the highest scientific standards and fostering communication among the international community of archaeozoologists. ICAZ members number more than 500 individuals from 50 countries around the world, all with the common interest of understanding past relationships between humans and animals. One of the primary ways in which ICAZ meets its goal of promoting communication among archaeozoologists is through sponsoring meetings. There are two kinds of ICAZ sponsored meetings: International Conferences, which are held once every four years, and International Committee Meetings, which occur once every two years.



### Laboratori d'Arqueozoologia

The Archaeozoology laboratory is a leading research group focused on understanding human-animal interactions in our past. The research lines spread to the birth and consolidation of first farming societies with a special focus in animal domestication processes, animal resources management in hunter-fisher-gatherer american societies, exploitation of coastal resources and animal management in historical times. The application of innovative research and leading techniques and analysis such as staple isotopes analysis, aDNA, biomechanics, GMM, osteon analysis and finite elements analysis allows us to move forward and develop the discipline.

### Institute of Human Paleoecology and Social Evolution (IPHES)



The Catalan Institute of Human Paleoecology and Social Evolution (IPHES) is a transdisciplinary institution that promotes advanced research, education and knowledge transfer, and social engagement with science. Therefore, we cross and combine different fields of science, humanities and social sciences, but also geosciences and biosciences to apply them to the study of human and social evolution. Our aim is to promote knowledge both about ancient human species of the past and about human beings today.

## Grup de Recerca Arqueològica al Mediterrani i el Pròxim Orient (GRAMPO)



GRAMPO is a research group that clusters the study, diffusion and research work of three intertwined archaeology research groups. 'SAPPO' focuses on archaeology of the first farming societies of the Near East and the Iberian Peninsula. 'Laboratori d'arqueozoologia' researches the birth, consolidation and development of animal domestication processes. 'ARCHAEOM' is centred on archaeometry of pottery from the near East, the Mediterranean basin and the Iberian Peninsula. GRAMPO has a long and unique trajectory in Spain of transmediterranean multidisciplinary research, with stable excavation and research projects. The combination of solid archaeological data with the application of innovative analytics are the base for its scientific research.

## Museu d'Arqueologia de Catalunya



**Museu d'Arqueologia  
de Catalunya**

The Museu d'Arqueologia de Catalunya (MAC), where archaeology teaches, inspires, and thrills us, displaying Catalonia's history from prehistory to the Middle Ages. The museum also offers a varied and interesting programme of activities and temporary exhibitions (the museum currently exhibits: 'Archaeology in exile: The Archaeology museum of Catalonia and the Spanish war. 1936-1939'), and is a must for anyone interested in archaeology and the ancient art and history of Catalonia and the eastern Mediterranean. One museum, five locations: Barcelona, Empúries, Girona, Olèrdola and Ullastret.

## Agència Catalana del Patrimoni Cultural



**Generalitat de Catalunya  
Agència Catalana  
del Patrimoni Cultural**

The Catalan Cultural Heritage Agency has the mission of managing the cultural heritage of the catalan government with criteria of integrity, sustainability and efficiency. The Agency supports the department responsible for culture on activities programmed to execute the policies established by the competent unit in the field of cultural heritage.

## Universitat Autònoma de Barcelona



We are a leading university providing quality teaching in a wide variety of courses that meet the needs of society and are adapted to the new models of Knowledge. Our courses provide students with outstanding practical experience, helping them to be better prepared as they enter the professional world. UAB is internationally renowned for its quality and innovation in research



## GENERAL PROGRAMME FOR THE XIVth ASWA[AA] MEETING, BARCELONA 2019

### MONDAY 3 JUNE

- 16.00 - 19.30 Registrations and Helpdesk open at the *Museu d'Arqueologia de Catalunya* (MAC)
- 17.00 - 17.20 Welcoming ceremonies
- 17.20 - 18.20 Invited Conference Prof. Dr. Joris Peters  
*Outstanding and enigmatic: perspectives on the early Neolithic site of Göbekli tepe (SE Turkey)*
- 18.30 - 19.00 Open visit at the Museu d'Arqueologia de Catalunya (MAC)
- 19.00 - 20.00 Welcoming cocktail Reception

### TUESDAY 4 JUNE

- 8.30 - 9.00 Registration and Helpdesk open at Sala d'Actes de la Facultat de Ciències Polítiques i Sociologia (Meeting Hall of the Faculty Political Science and Sociology), Autonomous University of Barcelona (UAB)
- 9.00 - 9:20 Opening Ceremony; invited talks Scientific and Institutional Support Committees
- 9:20 - 10:00 Invited Conference, Dr Prof. Louis Chaix.  
*Cattle, sheep, goats and dogs: companions for the death (Kerma Sudan, 2500-2000 BC)*
- 10.00 - 18.30 Scientific Programme sessions
- **Session 1:** Walking on the wild side
  - **Session 2:** (Pre)-Domestication and early domestic scenarios



### WEDNESDAY 5 JUNE

- 8.30 - 9.00 Registration and Helpdesk open at the Sala d'Actes de la Facultat de Ciències Polítiques i Sociologia (Meeting Hall of the Faculty Political Science and Sociology), Autonomous University of Barcelona (UAB)
- 9.00 - 18.15 Scientific Programme sessions
- **Session 3:** Consolidating experiences, settling bases
  - **Session 4:** Bronze period, gleams of light
  - **Session 5:** From gleams to the Iron light
- 21.00 - Gala dinner

### THURSDAY 6 JUNE

- 9.00 - 9.30 Registration and Helpdesk open at Sala d'Actes de la Facultat de Ciències Polítiques i Sociologia (Meeting Hall of the Faculty Political Science and Sociology), Autonomous University of Barcelona (UAB)
- 9.30 - 16.45 Scientific Programme sessions
- **Session 6:** Telling Hellenistic, Roman and Byzantine animal histories
  - **Session 7:** From late-modern to current times
  - **Session 8:** Animals through time
- 17.30 - 18.00 Closing Ceremony & ASWA Meeting

### FRIDAY 7 JUNE

Post-Conference Excursion



## SCIENTIFIC PROGRAMME





## ***Tuesday, June 4th***

### **- SESSION 1: WALKING ON THE WILD SIDE**

Chairperson: Carlos Tornero

- 10.00 - 10.15 Rivka Rabinovich; Rebecca Biton & Sharon Gonen  
*(pg. 21) Completeness of elements and exploitation modes in the Mousterian site of Nahal Mahanayeem Outlet (Middle Paleolithic, Israel)*
- 10.15 - 10.30 Reuven Yeshurun & Nehora Schneller-Pels  
*(pg. 22) The Ahmarian and Aurignacian Archaeofaunas at Manot Cave (Israel) and the Early Upper Paleolithic of the Levant*
- 10.30 - 10.45 Kate Swinson & Louise Martin  
*(pg. 22) Long-term trends in animal exploitation in prehistoric Jordan, 26k-11k cal BP*
- 10.45 - 11.00 Ignacio Aguilar Lazagabaster & Nimrod Marom  
*(pg. 23) Modelling the effects of human settlement intensity and faunal extinction on food webs in the Judean Desert*

*Discussion and Coffee break*

### **- SESSION 2: (PRE)-DOMESTICATION AND EARLY DOMESTIC SCENARIOS**

Chairperson: Reuven Yeshurun

- 11.30 - 11.45 Anne Bridault & Rivka Rabinovich  
*(pg. 24) Investigating wild game exploitation in the Final Natufian of Eynan/Mallaha (Northern Jordan Valley, Israel): contribution of the macro-mammals remains*
- 11.45 - 12.00 Florent Rivals; Rivka Rabinovich; Iván Ramírez-Pedraza; Hamoudi Khalaily; François Valla & Anne Bridault  
*(pg. 25) Ungulates paleodiet and seasonality in the Final Natufian assemblage from Eynan/Mallaha (Northern Jordan Valley, Israel)*
- 12.00 - 12.15 Rebecca Biton & Salvador Bailón  
*(pg. 26) Frogs, Lizards and Snakes from Eynan - Background Fauna or More?*



12.15 - 12.30 Mary C. Stiner; Natalie Munro; Hylke Buitenhuis; Mihriban Özbaşaran & Gunes Duru  
 (pg. 26) *An Early Pathway to Sheep Domestication at Aşikli Höyük (Central Anatolia, Turkey): Evidence from Age and Sex Structures*

Chairperson: Natalie Munro

12.30 - 12.45 Lionel Gourichon; Daniel Helmer; Carlos Tornero & Juan José Ibáñez  
 (pg. 27) *Animal resource exploitation at Tell Qarassa North, an Early Pre-Pottery Neolithic B village in southern Syria*

12.45 - 13.00 Lisa Yeomans & Pernille Bangsgaard  
 (pg. 28) *New work at Ganj Dareh: Initial results from the ongoing analysis of the faunal remains*

13.00 - 13.15 Eva-Maria Geigl  
 (pg. 28) *Paleogenetics of the domestication of animals in SWA*

- Lunch break - 1h 45 min

Chairperson: Roger Alcàntara Fors

15.00 - 15.30 Poster Presentation, Sessions 1 & 2

- |    |                                                                                                                                                                                                                                                    |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1 | Emily Tilby<br>(pg. 64) <i>Reconstructing the local environment of Neanderthals and Modern Humans: Preliminary zooarchaeological analysis of the micromammals of Shanidar Cave (Iraqi Kurdistan)</i>                                               |
| P2 | Ivan Ramírez; Florent Rivals; Thorsten Uthmeier & Victor Chabai<br>(pg. 64) <i>Seasonality and paleoenvironmental of the last Neanderthals at Kabazi II (Crimea) using tooth microwear analysis</i>                                                |
| P3 | Hagar Reshef; Marie Anton; Fanny Bocquentin; Jacob Vardi; Hamoudi Khalaily; Guy Bar-Oz & Nimrod Marom<br>(pg. 65) <i>A Thought Fox: Late Manifestation of Animism in a Joint Burial of Humans and Foxes in Pre-Pottery Neolithic Motza, Israel</i> |
| P4 | Ella Tsahar; Roi Talbi & Nimrod Marom<br>(pg. 65) <i>Cattle husbandry as a potential proxy to climate change in the southern Levant</i>                                                                                                            |



Chairperson: Max Price

- 15.30 - 15.45 Allowen Evin; Max Price; Roger Alcàntara Fors; Azadeh Mohaseb; Maria Saña; Marjan Mashkour; Joris Peters; Thomas Cucchi; Greger Larson & Keith Dobney  
*(pg. 29) Tracking long-term human and pig relationship in Southwest Asia using geometric morphometrics*
- 15.45 - 16.00 Kaveh Yousef Pouran; Maria Saña & Joan Anton Barceló  
*(pg. 30) A Biomechanical approach to understand Neolithic animal husbandry*
- 16.00 - 16.15 Ozlem Saritas; Ardern Hulme-Beaman & Louise Martin  
*(pg. 31) Applying Geometric Morphometrics to Regional Questions on the Early Management of Pigs in Central Anatolia: The Results from Boncuklu Hoyuk.*
- 16.15 - 16.30 Roger Alcàntara Fors; Josep Fortuny; Miquel Molist & Maria Saña  
*(pg. 31) A story of bone strength. Goat mobility through cross-sectional properties and geometric morphometrics of long bones in tell Halula*
- 16.30 - 16.45 Joaquim Ripoll; Roger Alcàntara & Maria Saña  
*(pg. 32) Bone microstructure as a marker of sheep and goat management strategies during the Early Neolithic in the Middle Euphrates Valley*

- Coffee break -

Chairperson: Allowen Evin

- 17.15 - 17.30 Canan Çakırlar; Rémi Berthon; Pamela Burger; Mehmet Kara Erkut; Sevil Kilimci Figen; Janoscha Kreppner; Sara Lado; Marjan Mashkour; Sarah Macclure & Joris Peters  
*(pg. 33) Hidden hybrids: Camels and cultural blending in the Ancient Near East*
- 17.30 - 17.45 Cheryl Makarewicz; Taylor Hermes; Liora Horwitz & Henry Schwarcz  
*(pg. 34) Isotopic variation in early Neolithic sheep and goats from the southern Levant: Challenges in the use of tooth enamel  $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  to detect mobility*



17.45 - 18.00 Jacqueline Meier

*(pg. 34) Neolithic Kfar HaHoresh: Contextualizing diet and disposal practices at a ceremonial center*

18.00 - 18.15 Cheryl Makarewicz & Nimrod Marom

*(pg. 35) The Woolly Margin: Late Pre-Pottery Neolithic Settlement Patterns in Jordan and the Pastoralist Connection*

18.15 - 18.30 Nadja Poellath & Joris Peters

*(pg. 35) Birds of a feather flock together - early Neolithic avifaunas in Upper Mesopotamia*

*Discussion*



## **Wednesday, June 5<sup>th</sup>**

### **- SESSION 3: CONSOLIDATING EXPERIENCES, SETTLING BASES**

Chairperson: Joris Peters

- 9.00 - 9.15 Natalie Munro & Mary C. Stiner  
*(pg. 36) A zooarchaeological history of the Neolithic occupations at Franchthi Cave and Paralia, Greece*
- 9.15 - 9.30 Linoy Namdar; Yitzhak Paz; Jacob Vardi; Khamoudi Khalailah & Lidar Sapir-Hen  
*(pg. 36) Human-Animal Relationships during the Late Neolithic period in the Southern Levant*
- 9.30 - 9.45 Rémi Berthon & Delphine Decruyenaere  
*(pg. 37) Herds on their way to the pastures: Zooarchaeological results from Uçan Agil campsite (5th-3rd mill. BC / Nakhchivan - Azerbaijan)*
- 9.45 - 10.00 Emmanuelle Vila  
*(pg. 38) Early Uruk village economy in the Southern Kurdistan (Iraq): The faunal analysis of Girdi Qala (Qara Dagħ Project)*
- 10.00 - 10.15 Max Price  
*(pg. 38) Production and Consumption at Tell Surezha: A Picture of an Animal Economy on the Erbil Plain during the Transition to Complex Societies*

Chairperson: Lionel Gourichon

- 10.15 - 10.30 Julie Daujat; Ardern Hulme-Beaman; Allowen Evin; Richard Allen; Greger Larson & Naomi Sykes  
*(pg. 39) Tale of a two deer cruises in the Eastern Mediterranean*
- 10.30 - 10.45 Selena Vitezović  
*(pg. 39) Exploitation of animal resources and use of animal hard tissue in the Eneolithic period in the Balkans*
- 10.45 - 11.00 Kevin Lidour & Mark Jonathan Beech  
*(pg. 40) Fishing strategies and adaptation to maritime environments during the Neolithic on Marawah Island, United Arab Emirates*



11.00 - 11.15 Caroline Mougne; Lapo Gianni Marcucci; Emilie Badel; Philippe Béarez  
(pg. 41) *Exploitation and use of marine invertebrates at the Neolithic site of Ra's al-Hamra 6 (Muscat, Sultanate of Oman)*

*Discussion and Coffee break*

Chairperson: Emmanuelle Vila

**- SESSION 4: BRONZE PERIOD, GLEAMS OF LIGHT**

11.45 - 12.00 Cheryl Makarewicz; Max Price & Roz Gillis  
(pg. 42) *The evolution of cattle management in the southern Levant*

12.00 - 12.15 Gwendoline Maurer  
(pg. 42) *Cattle Away from Home: The Kura Araxes at 3rd Millenium BC Tel Bet Yerah*

12.15 - 12.30 Jwana Chahoud  
(pg. 43) *The economy of Bronze Age societies in the Central Levant*

12.30 - 12.45 Hervé Monchot; Lionel Gourichon; Anaïs Marrast; François Villeneuve & Zeidoun Al-Muheisen  
(pg. 43) *4000 years of food history at Dharih (Tafileh, Jordan)*

12.45 - 13.00 Kathryn O. Weber  
(pg. 44) *The Herd and the Hunt in the Bronze Age South Caucasus*

13.00 - 13.15 Siavash Samei; Natalie Munro & Gideon Hartman;  
(pg. 44) *Zooarchaeological and Stable Oxygen ( $\delta^{18}O$ ) Isotope Analyses of Herd Management Strategies at the Early Bronze Age Kura-Araxes Settlement of Köhne Shahar in Northwestern Iran*

*- Lunch break – 1h 45 min*



Chairperson: Joaquim Ripoll Miralda

|               |                                                                                                                                                                 |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15.00 - 15.30 | Poster Presentation, Sessions 3, 4 & 5                                                                                                                          |
| P5            | Scott Rufolo<br><i>(pg. 67) Completing the Zooarchaeological Picture of Rural Responses to Urban Developments in the Early Bronze Age Khabur Basin of Syria</i> |
| P6            | Dimitris Filioglou Dimitris<br><i>(pg. 67) Animals in pits: A case study from the Middle-Bronze Age 'Megaron' in Marathon, Greece</i>                           |
| P7            | Moussab Albesso Moussab<br><i>(pg. 68) Local strategies and trends in the animal economy at Tell Madaba (Jordan) during the Iron Age</i>                        |
| P8            | Laura Strolin<br><i>(pg. 68) Gazelle exploitation at Iron Age Salut (Oman)</i>                                                                                  |

Chairperson: Marjan Mashkour

- 15.30 - 15.45 Giovanni Siracusano  
*(pg. 45) From Sheperds To Farmers At Arslantepe (Eastern Turkey) During The Early Bronze II And III, From 2750 to 2000 BC*
- 15.45 - 16.00 Inbar Ktalav; Ezra Marcus & Guy Bar-Oz  
*(pg. 46) Cultural and Economic aspects in Middle Bronze Age Tel Ifshar: Preliminary results of the faunal remains*
- 16.00 - 16.15 Laurel Poolman & Kathryn Morgan  
*(pg. 46) A Woven Economy: Middle Bronze Age Sheep Economies at Zincirli Höyük*
- 16.15 - 16.30 Zohar Turgeman  
*(pg. 47) The old and the new: recent discoveries in the faunal aspect of Middle Bronze Age burial customs in the Levant*

*Discussion and Coffee break*



Chairperson: Guy Bar-Oz

**- SESSION 5: FROM GLEAMS TO THE IRON LIGHT**

17.00 - 17.15 James Roberts; Lloyd Weeks; Melanie Fillios; Charlotte Cable & Yaaqoub Youssef Al-Ali

*(pg. 48) The Faunal Remains from Saruq al-Hadid: an insight into human occupation of the desert fringes of southeastern Arabia during late prehistory*

17.15 - 17.30 Shyama Vermeersch; Jens Kamlah & Britt M. Starkovich

*(pg. 48) Tell el-Burak (Lebanon): a look into agricultural developments during the Bronze and Iron Age in the Southern Levant*

17.30 - 17.45 Kamilla Pawlowska

*(pg. 49) Bones never lie: Depositional pathways of food disposal at Çatalhöyük from the Bronze Age to the Phrygian, Hellenistic, and Muslim periods*

17.45 - 18.00 Liora Kolska Horwitz; Omri Lerna; Eliezer Oren & Henk K. Mienis

*(pg. 50) New Kingdom Military-Administrative Centers Along 'The Way of Horus', Northern Sinai*

18.00 - 18.15 Jacqueline Studer; Andrea Loprieno-Gnirs & Noémi Villars

*(pg. 50) Archaeozoology in the service of chronology: bone deposits from the Theban tomb complex of Mery (TT95) in Sheikh 'Abd el-Qurna, Egypt (15th century BC to present)*





## **Thursday, June 6th**

### **- SESSION 6: TELLING HELLENISTIC, ROMAN AND BIZANTINE ANIMAL HISTORIES**

Chairperson: Jacqueline Studer

- 9.30 - 9.45 Abra Spiciarich & Lidar Sapir-Hen  
(pg. 51) *The Citadel and the Slaughterhouse: Faunal Remains from Hellenistic Jerusalem*
- 9.45 - 10.00 Derya Silibolatlaz-Baykara & Ismail Baykara  
(pg. 52) *Archaeozoological Evaluation of the Hellenistic Period at Tatarlı Höyük (Turkey)*
- 10.00 - 10.15 Nimrod Marom; Dina Avshalom-Gorni; Sarel Shalev & Miriam Pines  
(pg. 52) *Of Fish and Donkeys: Faunal Remains and Industry in Early Roman Magdala on the Sea of Galilee*
- 10.15 - 10.30 Katie Tardio; Sarah Adcock & Benjamin Arbuckle  
(pg. 53) *Corralled Cattle: Faunal Remains from the Late Roman and Byzantine Phases of Çadır Höyük, Turkey*
- 10.30 - 10.45 Pernille Bangsgaard  
(pg. 53) *A faunal analysis of Byzantine, Umayyad and Mamluk remains from the Northwest Quarter of Jerash, Northern Jordan*

*Discussion and Coffee break*

### **- SESSION 7: FROM LATE-MODERN TO CURRENT TIMES**

Chairperson: Angelos Hadjikoumis

- 11.30 - 11.45 Rachel Bleviss; Guy Bar-Oz & Irit Zohar  
(pg. 54) *The role of Red Sea Parrotfish (Scaridae) as Trade Indicators in the Negev Desert during the Byzantine-Islamic Transition Period*
- 11.45 - 12.00 Marjan Mashkour; Sareh Amiri; Homa Fathi; Roya Khazaeli; Karyne Debie; Delphine Decruyenaere; Sanaz Bezaee Doost; Benoît Clavel; Safoora Kamjan; Rusudan Jajanidze; Valentin Radu; Emmanuelle Stoetzel & Eberhard W. Sauer  
(pg. 55) *Herding And Hunting On The Highlands Of Transcaucasia And Ciscaucasia From The Sasanian To Late Medieval Periods. The Archaeozoology Of The Dariali Gorge*



12.00 - 12.15 Louis Chaix  
 (pg. 56) *Cattle and temples. The meroitic butchery from Dukki-Gel (Northern Sudan) (100 BC-100 AD)*

12.15 - 12.30 Ninna Manaseryan  
 (pg. 56) *Caucasian Bison: Pages of History*

Chairperson: Mark Jonathan Beech

12.30 - 12.45 Jill Goulder  
 (pg. 57) *Looking ethologically at the past: working donkeys and cattle in modern Africa and 4th-3rd millennium BC Mesopotamia*

12.45 - 13.00 Angelos Hadjikoumis  
 (pg. 57) *Ethnozooarchaeological study of caprine husbandry in mixed agropastoral systems: questions of scale*

13.00 - 13.15 Maayan Lev; Reuven Yeshurun & Mina Weinstein-Evron  
 (pg. 58) *Identifying Accumulation and Post-depositional Taphonomic Processes on Reptile Bones Using Experimental Archeology*

- Lunch break - 1h 45 min

Chairperson: Alejandro Sierra

15.00 - 15.30 Poster Presentation, Sessions 6, 7 & 8

P9 Margarit Marjanyan; Noushig Zarikian & Boris Gasparyan  
 (pg. 69) *Ectoparasites remains from Areni-1 (Birds Cave) cave in Armenia*

P10 Noushig Zarikian; Boris Gasparyan & Kim Dilbaryan  
 (pg. 69) *A Tick remains from Areni-1 (Birds' Cave), Armenia*

P11 Francesca Slim; Canan Çakırlar; Janine Van Noorden & Brian Rose  
 (pg. 69) *Galatians in Gordion: animal husbandry practices during the Hellenistic period in central Anatolia*

P12 Roya Khazaeli; Marjan Mashkour; Homa Fathi & Hayedeh Laleh  
 (pg. 70) *A review of recent archaeozoological investigations from the Islamic period in Iran*

P13 Laura Harutyunova & Iren Kalantarian  
 (pg. 71) *Mollusks from the Archaeological Excavations of Getahovit-2 Cave (Armenia)*



## - SESSION 8: ANIMALS THROUGH TIME

Chairperson: Adrià Breu Barcons

15.30 - 15.45 Meir Orbach

*(pg. 59) Reassessing Late Pleistocene Hyenids in the Southern Levant: Taxonomy, Size Variability and Feeding Behavior*

15.45 - 16.00 Laura Llorente-Rodríguez; Arturo Morales Muñoz; Nathalie Smits; Bruno Overlaet; Eisa Yousif & Sabah Jasim

*(pg. 60) Molluscs beyond subsistence: The mollusc assemblages from Dibba al Hisn (Sharjah, UAE)*

16.00 - 16.15 Marco Masseti

*(pg. 61) Artistic evidence of the occurrence of two phenotypic varieties of horse in Bronze Age Egypt*

16.15 - 16.30 Ninna Manaseryan & Nora Yengibaryan

*(pg. 61) Armenia: The Horse in religion and Art*

16.30 - 16.45 Marco Masseti

*(pg. 62) The representation of doves (Columbidae Illiger, 1811) in the 2nd millennium BC Near Eastern and Aegean art*

*Discussion and Coffee break*



# ABSTRACT BOOK

## Oral contributions



#### **P9 Ectoparasites remains from Areni-1 (Birds Cave) cave in Armenia.**

MARGARIT MARJANYAN<sup>1</sup>, NOUSHIG ZARIKIAN<sup>1</sup> & BORIS GASPARYAN<sup>1</sup>

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Invertebrates' remains can be found in many different environments. They are the most significant source for paleoparasitological studies as well as for other paleoecological reconstruction. Preserved paleoparasitological remains are found from the driest to the moistest conditions. They help us to understand past and present diseases and therefore contribute to understanding the evolution of present human sociality, biology, and behavior. In this paper, the scope of the surviving evidence, that came out during Areni-1 cave excavations 2007-2010 will be briefly surveyed. The most common materials used to analyze ancient environment and emphasized ancient human disease. This paper also urges increased cooperation among archaeologists, paleontologists and paleoparasitologists. In this paper, we present ectoparasites eggs of *Polyplax* sp., which have been found on rodent remains from Areni-1 cave and *Ctenocephalides felis* remains which parasites on cats. In addition, bird tick (larvae) remains *Argas* sp. Previous mentioned are major vectors of important pathogenic virus, bacteria and protozoa threatening human and animals and describes some of the period disease.

Keywords: paleoparasitology, ectoparasites, ancient diseases – Areni, 1 cave – Armenia

#### **P10 A Tick remains from Areni-1 (Birds' Cave), Armenia**

NOUSHIG ZARIKIAN<sup>1</sup>, BORIS GASPARYAN<sup>2</sup> & KIM DILBARYAN<sup>1</sup>

<sup>1</sup>Institute of Archaeology and Ethnography, National Academy of Sciences of Armenia. – Teryan, 1  
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Ticks have been never participated in archaeological analytic studies. Here, we present the discovery of a tick from the finds of Systematic archaeological excavations at Areni-1 cave in the Republic of Armenia.

The well-preserved tick *Rhipicephalus bursa* provides important information about the prevailing ecology during the periods of habitation and usage of the cave by Late Chalcolithic and Medieval inhabitants and supports previous hypotheses, that ticks were a potential source of disease for human and other mammals especially cattle, sheep, horse and dog. This discovery has health, behavioural and ecological implications for the people that occupied the cave.

Keywords: Archaeozoology, Areni, 1 Cave, Armenia, Tick remains.

#### **P11 Galatians in Gordion: animal husbandry practices during the Hellenistic period in central Anatolia**

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The famous site of Gordion in Central Anatolia has been the center of archaeological interest for over 50 years. This includes a long tradition of bioarchaeological research in this region,



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