

# ANNUAL REPORT 2014



**IPHES<sup>R</sup>**

Institut Català de Paleoecologia  
Humana i Evolució Social

**Board of Trustees**



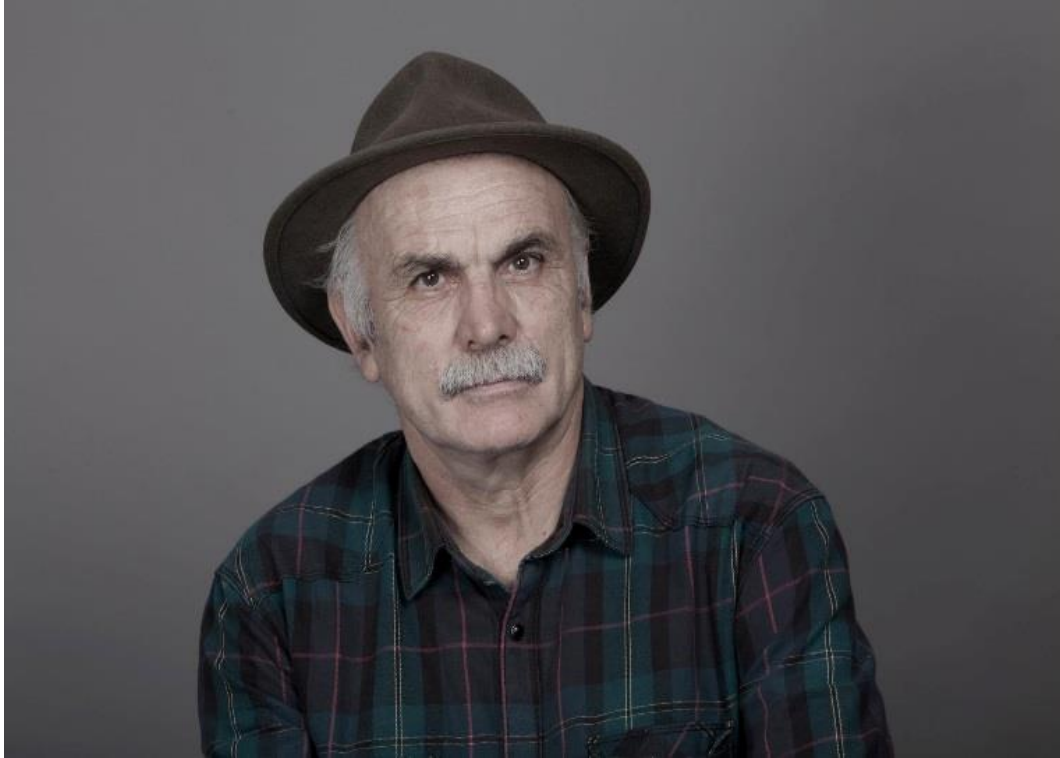
PHOTO: Gran Dolina, Sierra Atapuerca (Burgos) / IPHES

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## Message from the Director



Eudald Carbonell, archaeologist and IPHES Director / Xavier Basiana

After working and building for ten years, we are now moving towards consolidating the Institut Català de Paleoecologia Humana i Evolució Social (IPHES). Over the course of the past ten years we have been thinking, working, generating scientific knowledge, and relentlessly pushing our project forward in the name of science.

I am very pleased to be involved in an endeavour with such a bright future ahead of it. It has truly been an honour for me. Although this institution primarily addresses the events of the past, we look to the future and are committed to the present of our species, *Homo sapiens*, which we are constantly exploring. Earth and life sciences give us the substrate on which to

form our thoughts, and creativity and history allow us to infer and reconstruct the past based on information available in the present. This ability to derive feedback from analytical and systemic sources marked the beginning of this institution and is the key to its continuation.

All of this, of course, would not have been possible without a great team. For this reason, I thank my colleagues and friends who have accompanied me on this journey. We must of course discuss what we have achieved through the promotion of the Atapuerca cluster, with research institutes, a museum, interpretive centres, a foundation, etc., not to mention the bachelor's, master's, and doctoral degrees we have



generated. But what I really want to do is talk about my team and its solid contribution to the advancement of knowledge.

Indeed, the place where we have managed to work, or the “shack” as some have so kindly referred to it, has been the perfect refuge for all of the efforts we have undertaken over the past 25 years. At the time we began, we couldn’t yet dream of everything that had happened and we worked in precarious conditions with an uncertain future. Without the help of the Government of Catalonia, Rovira i Virgili University of Tarragona, and the collaboration of this city’s council none of this would have been possible. Therefore, I am grateful to all who have supported us in the construction and maintenance of this organisation, because without their help that youthful dream would never have become such a utopia.

Everything has happened so fast and we have grown a lot from these projects. We went from a group to a structure made up of many teams. We have also gone from working in many different locations to working at key sites. Thus, in addition to

Atapuerca (Burgos), Abric Romaní (Barcelona), and Orce (Granada), we also collaborate on projects in Dmanisi (Georgia), in a variety of places in Catalonia, and throughout the Iberian Peninsula and other continents. There are about 40 sites through which we can reconstruct the history of mankind. Work in the field, laboratory, and office have been the basis of our success as a structure.

We must continue forward with the same driving motivation: science is something that should be shared and should serve to build a better society. We have to work through multidisciplinary teams and think across disciplines and fields of expertise. It is my team who will make this possible. It’s for this reason that I would like to conclude on the following note: Only you, with your willingness and capability, can move steadily towards a new consciousness where thought and knowledge will be put to the service of *Homo sapiens*. You, and only you, will be responsible for the future in which you must be able to apply yourselves intellectually and scientifically.

To the entire organisation, I wish you all my best.  
Eudald Carbonell i Roura



The image shows the exterior of a modern, multi-story building. The building has a light-colored facade with large glass windows and a prominent dark rectangular panel on the upper level. The word "IPHES" is displayed in large, bold, blue letters on this dark panel. A red horizontal line is drawn across the middle of the image, with the word "MANAGEMENT" centered on it in a black, sans-serif font. In the foreground, there is a paved area with a metal railing and a white utility box. A person is walking near the railing, and another person is standing near the utility box. The sky is blue with some light clouds.

**IPHES**

**MANAGEMENT**

## About us: Big general data for 2014

### General Information

The *Institut Català de Paleoecologia Humana i Evolució Social* (IPHES) is a research center created in 2005 with the aim to carry out excellent research in the field of Paleoecology and Human Evolution. We study the biological and cultural context of Human Evolution from the Prehistory with an evolutionary perspective, by crossing different disciplines applied to the archaeopaleontological remains.

By the year 2014 we have maintained the number of JCR publications reaching 69 articles in journals of the highest standard in our field. We also have continued to widen the spectrum of multidisciplinary publications such as Nature, PNAS or PlosOne, among others.

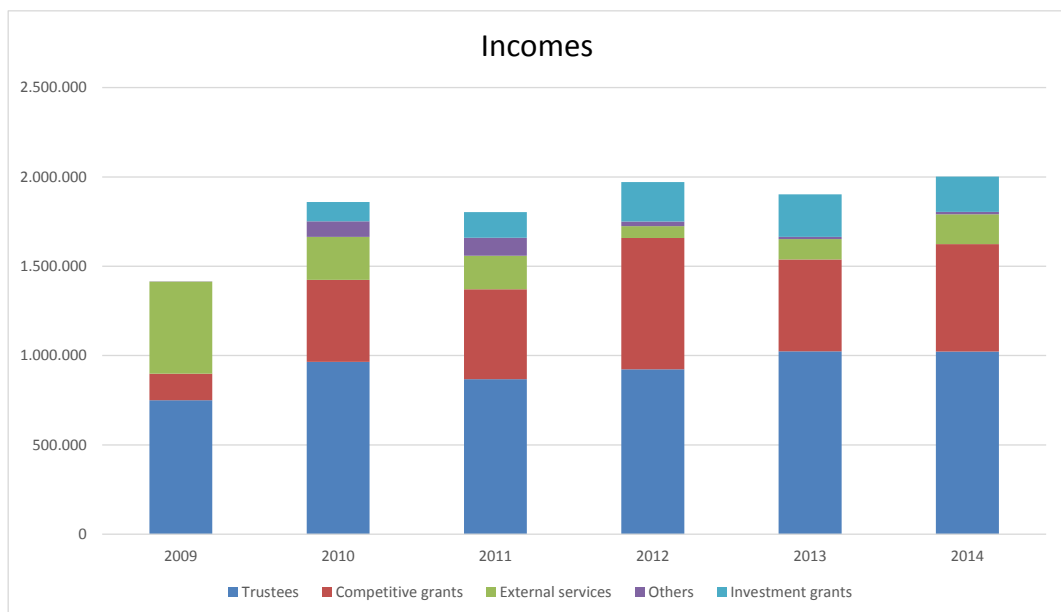
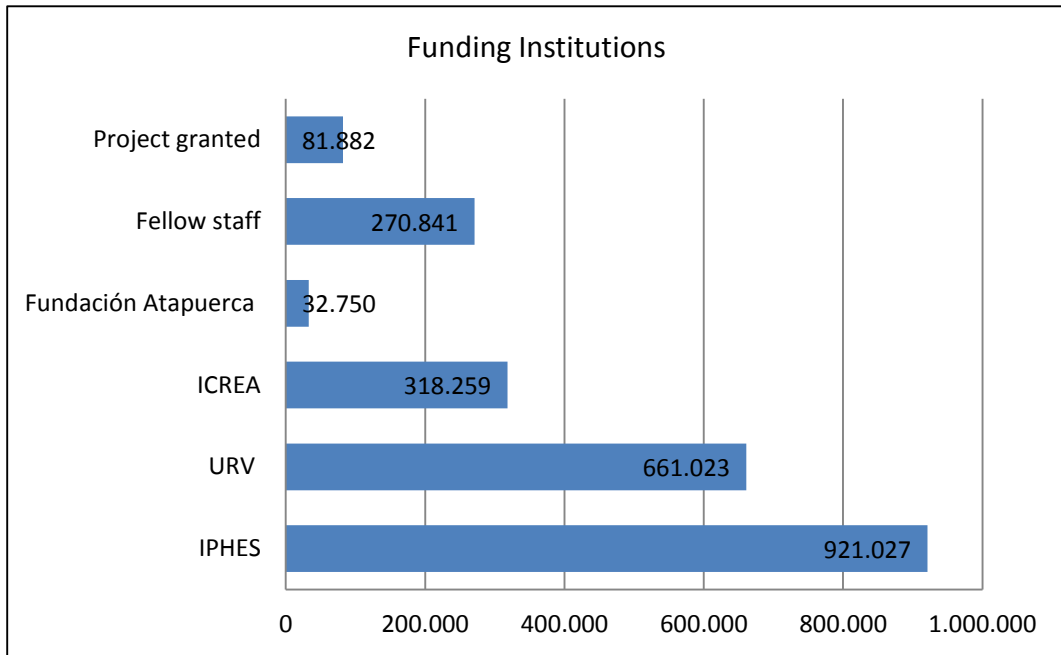
IPHES has been involved in all three stages of university studies (bachelor's, master's and doctorate) in collaboration with the Universitat Rovira i Virgili. During the year 2014 we have offered the following degree courses:

- Bachelor's Degree in History (URV)
- Bachelor's Degree in Anthropology and Human Evolution (URV/UOC)
- Master's Degree in Quaternary Archaeology and Human Evolution (Erasmus Mundus)
- Doctoral Programme in Quaternary and Prehistory (Erasmus Mundus)

We also have organized and participated in a wide number of outreach activities throughout the year, with special emphasis on school-aged children to promote interest in the pursuit of science as a career, as well as to help citizens understand the importance of research and make informed decisions about scientific issues.

2014 has been again a difficult year economically speaking, and we had to work hard in order to balance our incomes and expenses. We have to thank to our trustees, the Catalan Government through the Economy and Knowledge Department (DECO), Rovira i Virgili University (URV) and the City of Tarragona for their continued support and to other funding institutions like ICREA, AGAUR, MINECO and Fundación Atapuerca.

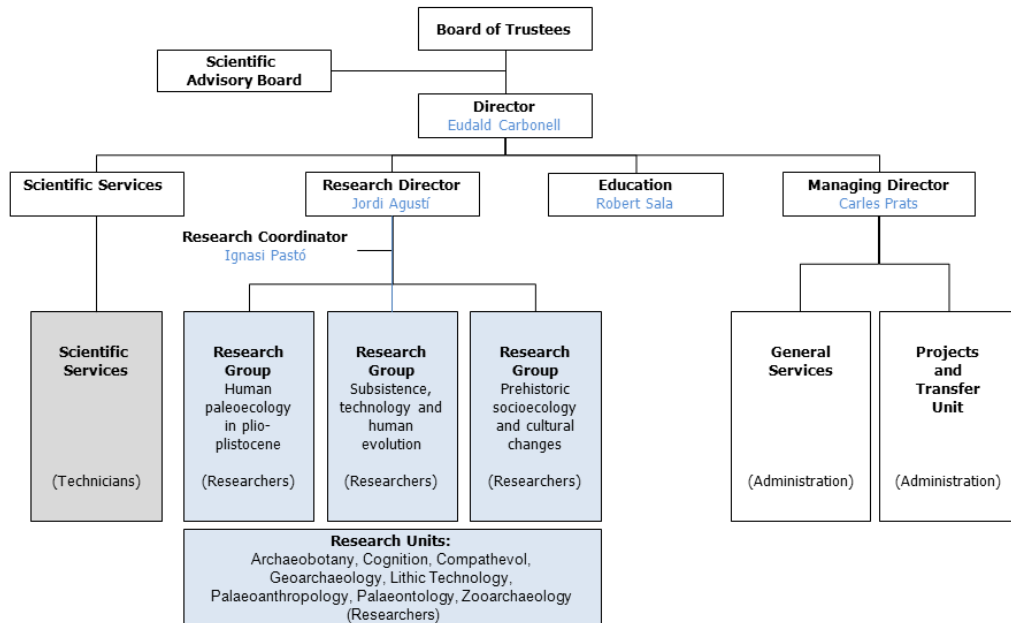




During the year 2014 we have continued improving our internal organization. Our technical services have been integrated in the area of Scientific Services and the administration area has reorganized its services into two units, general services and projects and transfer units. We hope both units will better respond to the challenges of the coming years. Specifically the Projects and Transfer unit provide a specialized service to researchers in the preparation and management of projects as well as promotes the knowledge transfer and technical services to third parties and society.







2014 also meant the end of total investment in the new building located in University Campus Sescelades URV. In total, the invested amount since 2010 is 3.715.913,02 euros and it has been co-financed 50% by the European Regional Development Fund in the framework of the Operational Programme Objective 2 Regional Competitiveness and Employment ERDF Catalonia 2007 -2013.



## Unió Europea

Fons Europeu de Desenvolupament Regional  
*Una manera de fer Europa*

The Institute has 3.150 m<sup>2</sup> devoted to outstanding facilities. Our labs are equipped in order to develop a wide range of archaeological research and we also have collections service supported by technical staff. With these new facilities we expect to improve the quality of our research and increase our scientific production as well as the socialization of knowledge and scientific and technical services.

IPHES is a member of CERCA system (Centres de Recerca de Catalunya). By the coming year, we are willing to increase our budget mainly from competitive public funds from the H2020 Program and FEDER Program (RIS3CAT 2014-2020) and we will also be highly involved in the integration of our Institute with two other research centers in Humanities, ICRPC (Catalan Institute in Cultural Heritage Research) and ICAC (Catalan Institute in Calassical Archaeology).



# Staff



IPHES staff december 2014 / IPHES



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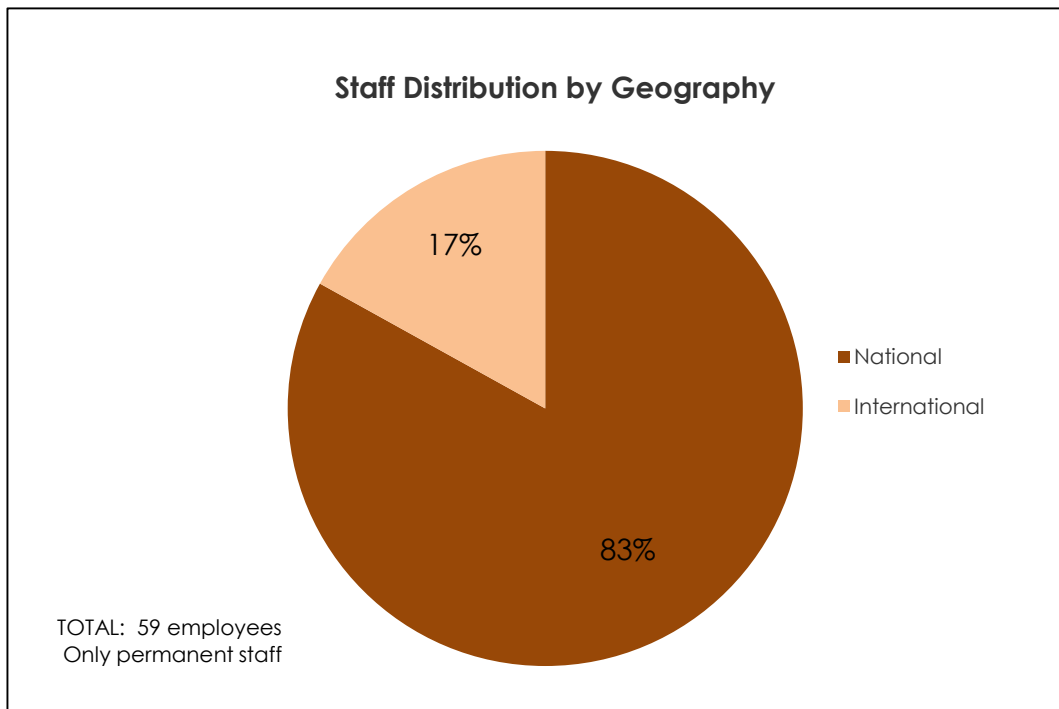
**SCIENTIFIC & TECHNICAL SERVICES**

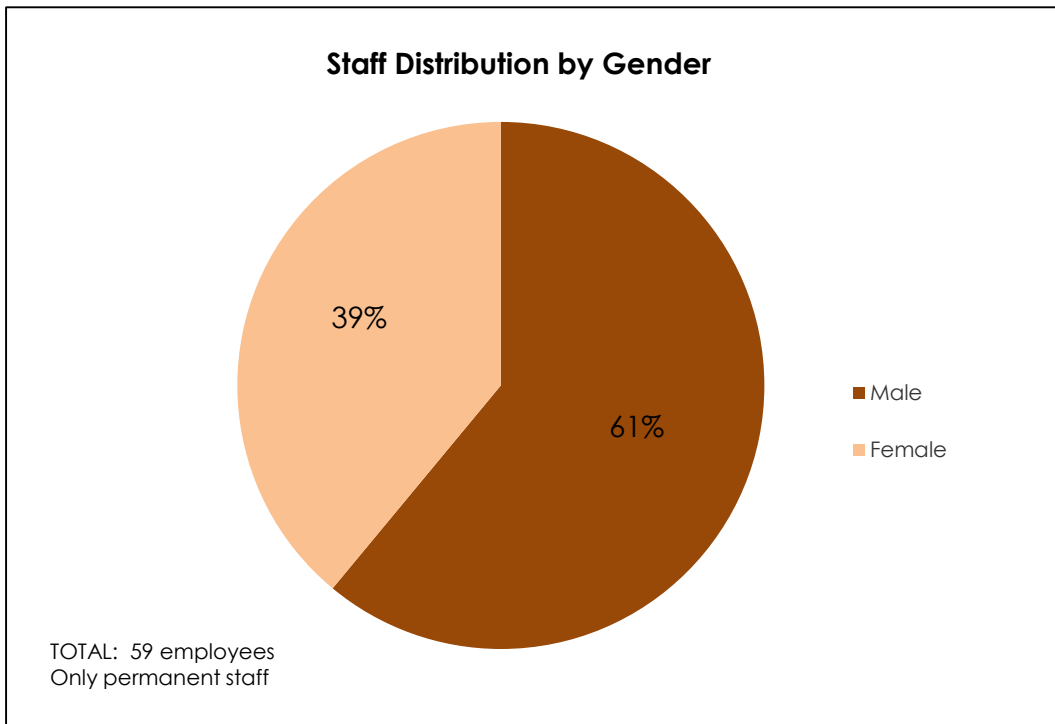
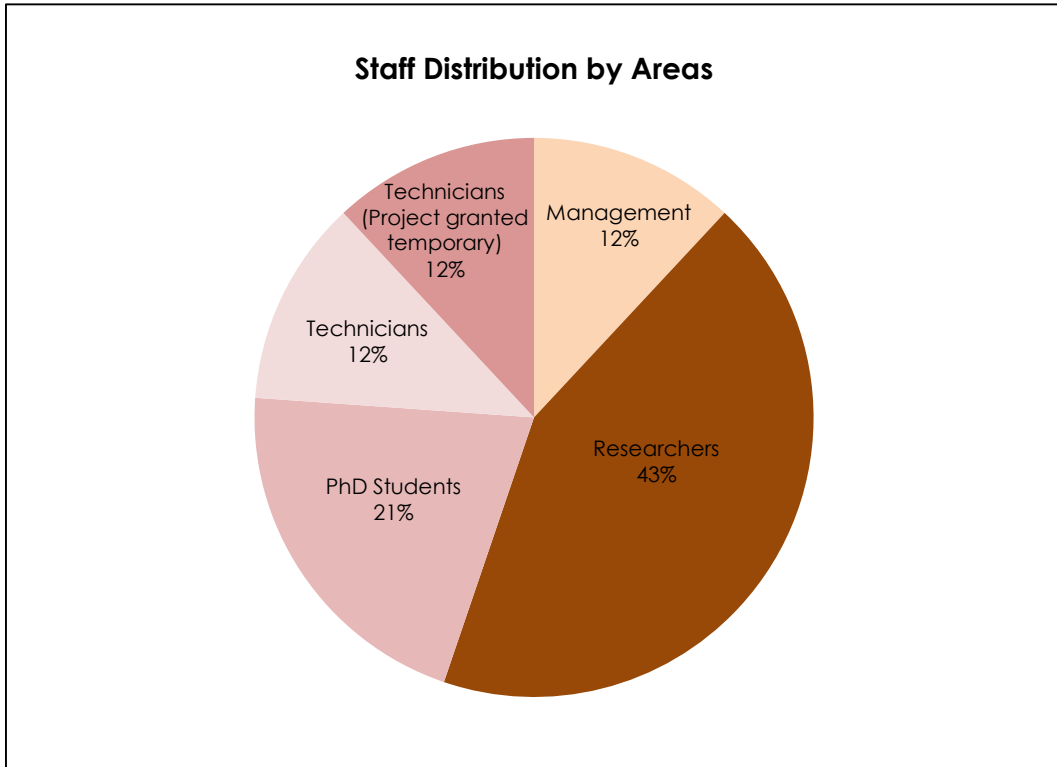
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**MANAGEMENT**

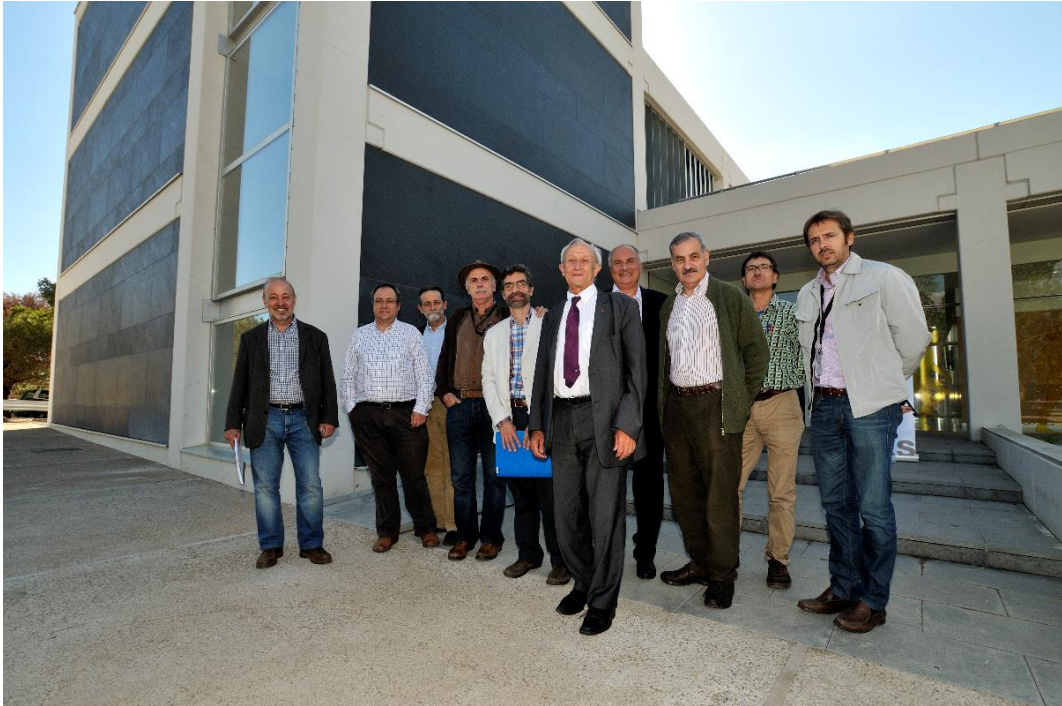
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## Scientific Advisory Board

### Members of Scientific Advisory Board



Scientific Advisory Board with members of Steering Committee / IPHES

**Dr. David Lordkipanidze**  
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**Prof. Carlo Peretto**  
*Università degli Studi di Ferrara  
President of the Faculty of Sciences  
Dip. Scienze Geologiche e  
Paleontologiche*

**Prof. Henry de Lumley**  
*Directeur Institut de Paléontologie  
Humaine*

**Dr. José María Bermúdez de Castro  
(PRESIDENT)**

*Director of Centro Nacional de  
Investigación sobre la Evolución  
Humana,  
CENIEH*

**Prof. Antonio Rosas**  
*Research professor in the Department of  
Palaeobiology; National Museum of  
Natural Sciences, CSIC*



# RESEARCH





## Scientific Impact

Publicacions: 177

- Articles (JCR): 69
- Articles indexed SCI/SSCI: 6
- Others: 36
- Book chapters: 60
- Books: 5

Research projects directed by IPHES: 16

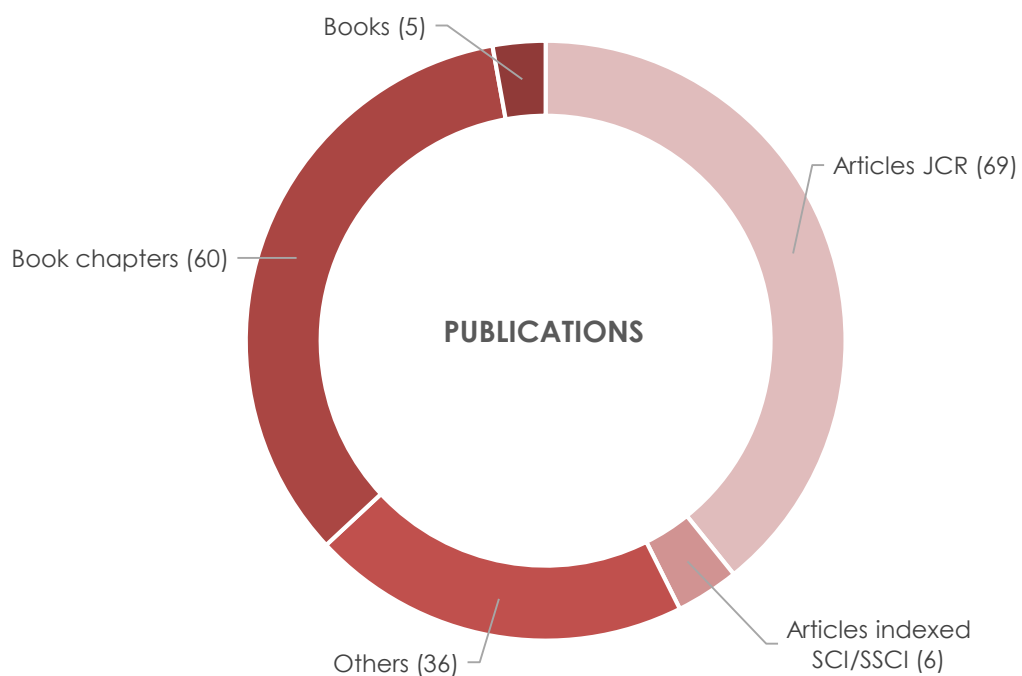
Research grants: 17

Thesis and master thesis presented/directed: 61

Congresses and seminars with staff members: 54

Short-term cooperation with other research centres: 10

Archaeological excavations directed by IPHES: 24



Journal	FI 2013	Articles 2014	Quartile	
Nature	42,351	1	1	1,4%
Science	31,477	1	1	1,4%
Proceedings of the National Academy of Sciences (PNAS)	9,809	2	1	2,9%
Philosophical Transactions of the Royal Society B: Biological Sciences	6,314	1	1	1,4%
Scientific Reports	5,078	1	1	1,4%
Quaternary Science Reviews	4,571	7	1	10,1%
Journal of Human Evolution	3,867	4	1	5,8%
PLOS ONE	3,534	9	1	13,0%
Palaeogeography, Palaeoclimatology, Palaeoecology	2,752	1	1	1,4%
Journal of Quaternary Science	2,661	2	1	2,9%
Journal of Raman Spectroscopy	2,519	1	2	1,4%
Boreas	2,383	1	2	1,4%
Journal of Anthropological Archaeology	2,319	1	1	1,4%
Scientometrics	2,274	1	1	1,4%
Journal of Anatomy	2,227	1	2	1,4%
Journal of Mammalogy	2,225	1	1	1,4%
Journal of Archaeological Science	2,139	5	1	7,2%
Quaternary International	2,128	11	2	15,9%
Micron	2,062	1	2	1,4%
Journal of Anthropological Sciences	1,783	2	1	2,9%
Acta Paleontologica Polonica	1,722	1	2	1,4%
Anatomical Record	1,53	1	3	1,4%
Integrative Zoology	1,419	1	2	1,4%
Archaeometry	1,328	1	3	1,4%
Laterality	1,312	1	2	1,4%

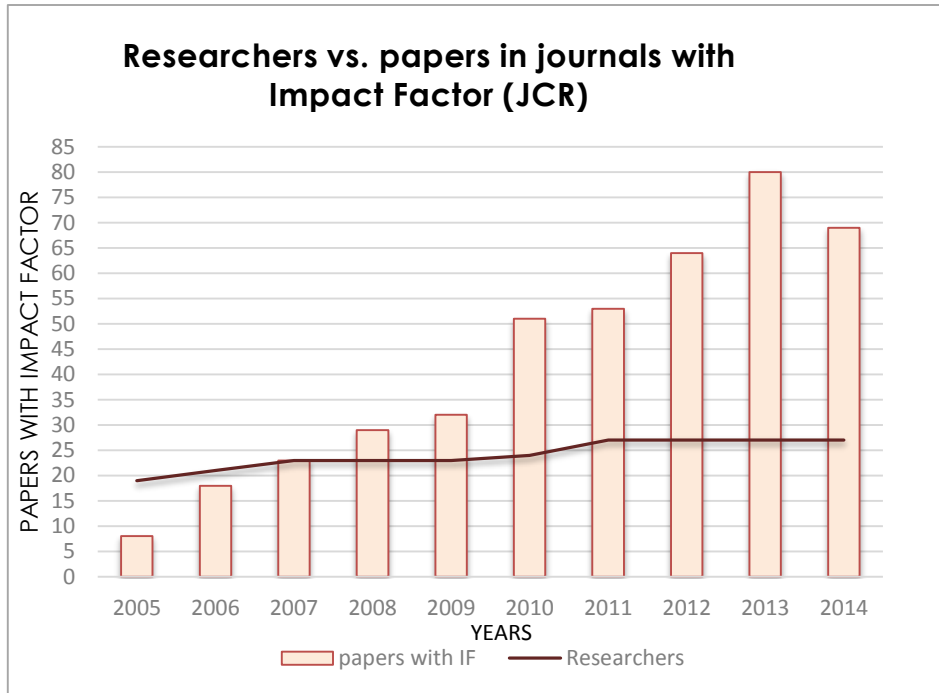


<i>CR Palevol</i>	1,167	4	3	5,8%
<i>Bulletin de la Société Géologique de France</i>	0,944	1	3	1,4%
<i>Journal of Iberian Geology</i>	0,875	1	3	1,4%
<i>Trabajos de Prehistoria</i>	0,682	4	3	5,8%

Journals (JCR) with articles published during 2014			2013
Quartile	Journals	%	%
1	15	51,7%	54,3%
2	8	27,6%	28,6%
3	6	20,7%	14,3%
4	0	0%	2,9%
Total	<b>29</b>	100%	100%

Articles published in 2014 according to the quartile of the journal (JSR)			2013
Quartile	Journals	%	%
1	39	56,5%	51,3%
2	18	26,1%	32,5%
3	12	17,4%	15%
4	0	0%	1,3%
Total	<b>69</b>	100%	100%





A review of the 100 papers that received the most attention online - and the conversations that happened around them.

48

#### A mitochondrial genome sequence of a hominin from Sima de los Huesos

Meyer M, Fu Q, Aximu-Petri A ...

<b>Journal</b>	Nature	<b>Category</b>	Biological Sciences
<b>Institutions</b>	Max Planck Institute for Evolutionary Anthropology, Chinese Academy of Sciences, Universidad Complutense de Madrid ...	<b>Countries</b>	Germany, China, Spain

**Score of attention**  
This is ranked 63rd in this journal.

Click for more details

**Mentioned by**

- 75 news stories
- 23 blog posts
- 367 tweets
- 36 Facebook posts
- 5 Google+ posts
- 2 Reddit posts
- 2 videos






Country= Spain

- 9

**Conscious Brain-to-Brain Communication in Humans Using Non-Invasive Technologies**  
Grau C, Ginhoux R, Riera A ...

**Journal** PLOS ONE  
**Institutions** University of Barcelona, Axilum Robotics, Neuroelectrics Barcelona ...

**Category** Medical and Health Sciences  
**Countries** France, Spain, United States



**Score of attention**  
This is ranked 1st in this journal.  
[Click for more details](#)

**Mentioned by**


  - 82 news stories
  - 32 blog posts
  - 1680 tweets
  - 5 weibo posts

- 319 Facebook posts
  - 93 Google+ posts
  - 17 Reddit posts
  - 2 videos
- 27

**Nurse staffing and education and hospital mortality in nine European countries: a retrospective observational study**  
Aiken LH, Sloane DM, Bruyneel L ...

**Journal** The Lancet  
**Institutions** University of Pennsylvania School of Nursing, Catholic University Leuven, University of Southampton ...

**Category** Studies in Human Society  
**Countries** Belgium, United States, United Kingdom ...



**Score of attention**  
This is ranked 4th in this journal.  
[Click for more details](#)

**Mentioned by**


  - 20 news stories
  - 6 blog posts
  - 1858 tweets

- 12 Facebook posts
  - 1 Reddit post
- 48

**A mitochondrial genome sequence of a hominin from Sima de los Huesos**  
Meyer M, Fu Q, Aximu-Petri A ...

**Journal** Nature  
**Institutions** Max Planck Institute for Evolutionary Anthropology, Chinese Academy of Sciences, Universidad Complutense de Madrid ...

**Category** Biological Sciences  
**Countries** Germany, China, Spain



**Score of attention**  
This is ranked 63rd in this journal.  
[Click for more details](#)

**Mentioned by**


  - 75 news stories
  - 23 blog posts
  - 367 tweets
  - 36 Facebook posts

- 5 Google+ posts
  - 2 Reddit posts
  - 2 videos
- 67

**Derived immune and ancestral pigmentation alleles in a 7,000-year-old Mesolithic European**  
Olalde I, Allentoft ME, Sánchez-Quinto F ...

**Journal** Nature  
**Institutions** CSIC-UPF, University of Copenhagen, University of California - Los Angeles ...

**Category** Biological Sciences  
**Countries** Denmark, Spain, United States ...



**Score of attention**  
This is ranked 91st in this journal.  
[Click for more details](#)

**Mentioned by**


  - 76 news stories
  - 12 blog posts
  - 276 tweets

- 22 Facebook posts
  - 14 Google+ posts
  - 1 Reddit post
- 95

**Planck intermediate results. XXX. The angular power spectrum of polarized dust emission at intermediate and high Galactic latitudes**  
See: <http://arxiv.org/pdf/1409.5738v1.pdf>

**Journal** arXiv  
**Institution** See: <http://arxiv.org/pdf/1409.5738v1.pdf>

**Category** Physical Sciences  
**Countries** United States, United Kingdom, Spain ...



**Score of attention**  
This is ranked 10th in this journal.  
[Click for more details](#)

**Mentioned by**

  - 34 news stories
  - 38 blog posts
  - 471 tweets
  - 1 weibo post

- 37 Facebook posts
  - 4 Google+ posts
  - 1 video



## Research Groups

### Subsistence, Technology and Human Evolution

**Principal investigator:** Dr. Eudald Carbonell

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**Technical staff:** Ma. Dolores García-Antón and Lucía López-Polín

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Gran Dolina, Sierra de Atapuerca (Burgos) / IPHES

The research of this group, Subsistence, Technology and Human Evolution aims to study human evolution on its biological, social and technological developments in the Early and Middle Pleistocene. The main areas of research are paleoanthropology, lithic technology, zooarchaeology and taphonomy and the early human cognition. Its approach is based on a strong investment in fieldwork with a

systematic analysis of founded remains to work on reliable empirical data and original experimentation as a part of testable procedures.

The group "Social, cultural and biological evolution during the Lower and Middle Pleistocene" headed by Dr. Eudald Carbonell Roura is integrated by 10 researchers, 7 predoctoral students and 3 technicians, and the following 5



topics are developed within this group: Lithic Technology, Zooarchaeology and taphonomy, Evolution of Early Human cognition, Paleoanthropology, Preparation and conservation of archaeological material.

These lines of research share the same general empirical framework based on the different fieldwork projects led or specifically participated by their members, both in Spain and abroad.

### In Spain

- The archaeo-paleontological complex of the Sierra de Atapuerca (Burgos, Spain), noticeably: Sima del Elefante, Gran Dolina, Galería and the Sima de los Huesos (the entire group' members except Miquel Lorente).
- The sites of the Calerizo de Cáceres (Cáceres, Spain): Cueva de Santa Ana y Cueva de Maltravieso (E. Carbonell, A. Ollé, A. Rodríguez, P. Saladié and J.M. Vergès).
- The sites of the Guadix-Baza Basin (Granada, Spain): Fuente Nueva 3 and Barranco León (E. Carbonell, C. Lorenzo and J.M. Vergès).
- The sites included in the project "Projecte Francolí, Gaià, Siurana i rieres del camp de Tarragona", Tarragona (Spain): specifically Barranc de la Boella and la Cansaladeta) (E. Carbonell, I. Cáceres, M. Esteban, R. Huguet, E. López, L. López-Polín, M. Mosquera, A. Ollé, X.P. Rodríguez, S. Roubach, P. Saladié and J.M. Vergès).
- The sites of Calveros de la Higuera at Pinilla del Valle (Madrid, Spain) (R. Huguet).
- The site of Cova de dalt del Tossal de la Font (Castelló, Spain) (E. Carbonell, I. Cáceres, L. López-Polín, C. Lorenzo, A. Ollé and P. Saladié).
- The sites of Monforte de Lemos and Cova Eirós (Lugo, Spain) (X.P. Rodríguez).
- The site of El Sidrón (Asturias, Spain) (R. Huguet).
- The site of Cova Foradà (Valencia, Spain) (C. Lorenzo).



Choppin tool. Barranc de la Boella (La Canonja, Tarragona) / IPHES



## International

- The sites included in the projects about the first dispersals and the evolution of human settlement at the Maghreb during the Pliocene and Pleistocene (Algeria, Morocco) developed in cooperation with IPHES (I. Cáceres, C. Lorenzo, A. Ollé, J.M. Vergès and S. Roubach).
- The Plio Pleistocene sites of East Africa (Ethiopia and Eritrea) included in the projects led by IPHES and CENIEH (E. Carbonell and I. Cáceres).
- The site of Azokh (Nagorno-Karabakh) (L. Asryan, I. Cáceres i A. Ollé).
- The British sites included in the projects led by the National History Museum and the British Museum (Happisburgh, Pakefield, Boxgrove and Gough's Cave) (I. Cáceres, M. Mosquera, A. Ollé, A. Rodríguez, P. Saladié and J.M. Vergès).
- The Sicilian prehistoric sites included in the research project co-led by IPHES with the Univ. degli Studi di Palermo. (A. Ollé and J.M. Vergès).
- The Lower and Middle Pleistocene sites from France included in the project led by Museum National d'Histoire Naturelle de Paris (Pont de Lavaud, Lunery, La Noira, Payre, Orgnac) (E. Carbonell, A. Ollé, A. Pedergrana and X.P. Rodríguez).
- The Palaeolithic sites of Khorramabad Valley (Iran) (B. Bazgir and A. Ollé).
- The Lower Pleistocene site of Zoukoudian and of the Nihewan Valley (China), in cooperation with the Institute of Vertebrate Paleontology and Paleoanthropology of Beijing (L. Asryan, E. Carbonell, M. Mosquera, A. Ollé and X.P. Rodríguez).





## Prehistoric Socioecology and Cultural Changes

**Principal investigator:** Dr. Manuel Vaquero

**Researchers:** Dr. Ethel Allué, Dr. Florent Rivals, Dr. Jordi Rosell, Dr. Francesc Burjachs, Dr. Javier Fernández, Dr. Sergi Lozano, Dr. Ignasi Pastó, Dr. Ramon Viñas, Dr. Ruth Blasco, Dr. Juan Manuel López, Dr. Marina Lozano and Dr. Samantha Jones

**PhD students:** Anna Rufà, Edgard Camarós and Juan Ignacio Morales

**Technical staff:** Marta Fontanals, Núria Ibáñez and Isabel Expósito

**Colaborations:** Susana Alonso, María Gema Chacón, Sergio García Catalán, Francesca Romagnoli, Alex Solé, Mònica Fernández, Beatriz Menéndez



Molí del Salt, Vimbodí i Poblet (Tarragona) / IPHES

The scientific activity of the group is focused on the study of ecology, population dynamics and cultural changes that characterize human societies throughout prehistory, from the earliest evidence of Neanderthal behaviour to the emergence of the first agricultural societies and livestock practices (Neolithic). This research is conducted from a multidisciplinary approach, integrating data from different disciplines: palaeoanthropology, lithic technology, zooarchaeology, taphonomy, palaeontology, archaeobotany, spatial analysis, symbolic expression and computational models.

The GAPS research group comprises a total of 13 doctors, six of them IPHES staff, (Manuel Vaquero, Jordi Rosell, Ethel Allué, Marina Lozano, Ignasi Pastó and Ramón Viñas). The seven remaining members were appointed to IPHES by different national and international competitive programs: two ICREA Professors (Francesc Burjachs and Florent Rivals), two "Ramón y Cajal" fellows (Javier Fernandez and Sergi Lozano), two postdoctoral Beatriu de Pinos – Marie Curie fellows (Ruth Blasco and Juan Manuel Lopez), and finally another Marie Skłodowska-Curie IEF 2014 postdoctoral researcher (Samantha Jones).



Additionally, the team includes three pre-doctoral students (Anna Rufà Bonache; Juan Ignacio Morales Hidalgo; Edgard Camarós Pérez) from different grants schemes (primarily MEC - FPU, FI AGAUR).

Therefore, this team is devoted to the study of the cultural changes and population dynamics of the Neanderthal and modern human groups using a Socioecological approach. During this period, the end of the Middle Pleistocene to the Early Holocene, three highly significant prehistoric processes took place:

1. The origins of Neanderthal behaviour.
2. The Middle-to-Upper Palaeolithic transition.
3. The end of the Paleolithic and the emergence of the first farming and herding societies.

All the scientific objectives of this team are achieved through work on a series of archaeological sites spanning the entire chronological frame on the Iberian Peninsula and abroad. The members of the GAPS are directly involved in the excavation of these sites, either as principal researchers or as participants in the fieldwork and/or study of materials. The sites we work at and use as primary data sources are:

- Middle Palaeolithic: Abric Romaní, Cova de les Teixoneres, Cova del Toll, Vanguard Cave, Gorham's Cave, Cau del Roure, Cova Foradà, Cova de les Llenes, Beef Steak Cave, Cova del Bolomor.
- Upper Palaeolithic: Molí del Salt, Costa de Can Manel, Abric de la Consagració, Cova de Valdavara, La Cativera, Cova d'en Pau, Cova de la Guineu, Balma de la Vall, Cova de les Borres, Cova Foradada, Balma de la Griera.
- Mesolithic: Abric Agut, Casa Corona.
- Neolithic: Cueva del Mirador, Cova de la Font Major, El Cavet, Cova Colomera. Rock Art: Fuente del Trucho; Cova Eirós; Cova Remigia; Cova del Civil; Cova Centelles and Abric de les Canyes; Cova dels Rosegadors; Abric del Mas dels Ous; Rock Art sites of Ermites d'Ulldecona; Muntanyes de Prades and Les Garrigues.
- Palaeoenvironment of Last Glacial-Holocene Transition: Drills at the endorheic pool at Ulldecona (Montsià, Tarragona), and in the Cova dels Xaragalls.

Moreover, the members of the group also participate in international excavations by both conducting fieldwork and studying materials. These projects are a cornerstone of the international profile of this research group:

1. Europe: Research projects in the Grotta Rio Secco (Italy), collaboration studies in the prehistoric Balkans (Serbia and Montenegro), the Caucasus (Georgia, Armenia and Nagorno-Karabakh) and Sicily (Vallone Inferno deposit).
2. Africa: research projects in Morocco, Algeria and Tunisia.
3. Middle East: research projects in Qesem Cave (Israel), collaboration with research projects in Iran (Khorramabad Valley).
4. Far East. Study fuel plant sites in China.
5. America. surveys at Cueva Pintada, Rio Sarakachi, El Arenoso and La Calera (Mexico), Holocene archaeological sites in the basin of Lake



Cardiel in southern Patagonia (Argentina) and tooth wear analyses of human remains recovered at the site of Cuchipuy (Xili).



## Human Palaeoecology in the Plio-Pleistocene

**Principal investigator:** Dr Jordi Agustí

**Researchers:** Dr Deborah Barsky, Dr Robert Sala, Dr Hugues Alexandre Blain, Dr Josep Vallverdú, Dr Bienvenido Martínez, Dr Josep Maria Prats, Dr Antoni Canals, Dr Policarp Hortolà and Dr Oriol Oms

**PhD students:** Pedro Piñero, María Luisa Soto, Tsegai Medin and Moncef-Said Mfimet.

**Technical staff:** Bruno Gómez, Gerard Campeny and Gala Gómez

**Colaborations:** Dr. Iván Lozano, Ángel Blanco



Camp dels Ninots, Caldes de Malavella (Girona) / IPHES

The goals of this group are focused on establishing the palaeoecological context of human dispersals during the Pleistocene in the Mediterranean in terms of palaeoclimatic, palaeobiological and behavioural aspects. All three issues, climate evolution, faunal dispersals and techno-cultural evolution, have acted as significant drivers in the different episodes of human dispersal from the Pliocene to Middle Pleistocene.

### Palaeoclimatic research

- We look at correlations between the climatic changes recorded at the oceanic level, the evolution of vertebrate communities, and human settlements.
- Our chronological span ranges from 2.6 Myr (beginning of the Glacial-Interglacial dynamic in the Northern Hemisphere) to 0.4 Myr (Mid-Bruhnes Event).
- We approach these questions through work at different palaeontological and archaeological sites:
  - Camp dels Ninots (Upper Pliocene, La Selva Basin, Girona, Spain)
  - Quibas (Lower Pleistocene, Murcia, Spain)
  - Guadix-Baza Basin (Lower Pliocene to Middle Pleistocene, 5.3-0.4 Ma)



- Bois-de-Riquet (Lower Pleistocene, 1.2 Ma, Lezignan, Hérault, France)
- Aïn Beni Mattar-Guefeit (Lower Pleistocene, Morocco)

### Palaeobiological research

- We study the relationships between faunal and human dispersals related to changes in climate during the Plio-Pleistocene.
- It is very important for us to understand the general directions of the dispersals during the Pleistocene. In other words: Is there a north-south or east-west pattern of dispersal in the faunal distribution changes observed in the fossil record?
- To answer these questions we focus on the analyses and comparison of the faunal record of several key sites of the Lower Pleistocene in the Mediterranean area and abroad:
  - Dmanisi (1.8 Ma, Georgia)
  - Oued Sarrat (Middle Pleistocene, Le Kef, Tunisia)
  - Engel Ela-Ramud Basin (Upper Pliocene to Middle Pleistocene, Eritrea)
  - Guadix-Baza Basin: Venta Micena, Fuente Nueva 3, Barranco León, Huéscar, Puerto Lobo, Solana de Zamborino (Lower-Middle Pleistocene, Granada, Spain)
  - Incarcal (Lower Pleistocene, Banyoles Basin–Besalú, Girona)
  - Barranc de La Boella (Lower-Middle Pleistocene, La Canonja, Spain)



Fuente Nueva 3, Orce (Granada) / IPHES



## Behavioural research

- The complex chronological and geographical circumstances of the Plio-Pleistocene seem to suggest different transitions in diachronic periods, and raise several questions:
  1. Did these cultural transitions result from new arrivals of hominins who transmitted their technological innovations to pre-existing populations?
  2. Were some populations with lesser developed technological skills and a simpler social organization replaced by other populations that were more skilled in terms of technological and social behaviours?
  3. Or did these new traditions develop independently in different areas of the Mediterranean from the potential of the morpho-technical variability of the Oldowan traditions?
- To solve these questions, we consider different archaeological sites ranging from eastern Africa, western Eurasia and the Mediterranean Basin, either managed by IPHES members or studied with the participation of IPHES members in cooperation with the researchers and the centres that lead or manage them:
  - Fejej (Lower Pleistocene, 1.96 Ma, South Ethiopia)
  - Ain Beni Mathar, Guefeit (Lower Pleistocene, Morocco).
  - Dmanisi (1.8 Ma, Georgia).
  - Bizat Ruhama (Lower Pleistocene, 1.6-1.2 Ma, Israel).
  - Errayeh (Middle Pleistocene, Northwest Algeria).
  - N´Gaous (Middle Pleistocene, North Central Algeria).
  - Ubeidiya (Lower Pleistocene, 1.6-1.2 Ma, Israel).
  - Bois de Riquet (Lower Pleistocene, 1.2 Ma, Lezignan, Herault, France).
  - Caune de l´Aragó (Middle Pleistocene, 0.69-0.09 Ma, Roussillon, France).
  - Loira central (Lower Pleistocene – Middle Pleistocene, Loira Basin, France).
  - Guadix-Baza Basin (Lower Pliocene – Middle Pleistocene, 5.3-0.4 Ma). Sites of Barranco León, Fuente Nueva 3, Huéscar, Cúllar and Solana de Zamborino.
  - Calerizo de Cáceres (Lower Pleistocene, Cáceres, Spain)
  - Barranc de La Boella (Lower-Middle Pleistocene), La Canonja, Spain



## Research Projects



Camp dels Ninots, Caldes de Malavella (Girona) / IPHES

### **Evolució social, cultural i biològica al Plistocè inferior i mitjà**

#### **Principal investigator: Eudald Carbonell**

Host institution: IPHES

Sponsor: Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)

Dates of Project (beginning and end): 01/01/14 – 31/12/16

Project code: 2014 SGR 899

### **Grup d'anàlisi de processos socioecològics, canvis culturals i dinàmiques de població a la Prehistòria**

Principal investigator: Manuel Vaquero

Host institution: IPHES

Sponsor: Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)

Dates of Project (beginning and end): 01/01/14 - 31/12/16

Project code: 2014 SGR 900

### **Paleoecologia humana del Plio-Plistocè**

Principal investigator: Jordi Agustí

Host institution: IPHES

Sponsor: Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)

Dates of Project (beginning and end): 01/01/14 - 31/12/16

Project code: 2014 SGR 901

### **Abric Romani - Cinglera de Capelló**

Principal investigator: Eudald Carbonell

Host institution: IPHES



Funder: Departament de Cultura. Generalitat de Catalunya  
 Dates of Project (beginning and end): 01/01/14 - 31/12/17  
 Project code: 2014/100576

**Arqueomona II: La evolució de la cognició humana a través del estudi del comportament de humans i chimpancés (*Pan troglodytes*)**

Principal investigator: Marina Mosquera  
 Host institution: IPHES  
 Funder: Ministerio de Economía y Competitividad. Gobierno de España (MINECO)  
 Dates of Project (beginning and end): 01/01/13 - 31/12/15  
 Project code: HAR2012-32548

**Compartint l'espai: interaccions entre homínids i carnívors al nord-est peninsular**  
**Principal investigator: Jordi Rosell**

Host institution: IPHES  
 Funder: Departament de Cultura. Generalitat de Catalunya  
 Dates of Project (beginning and end): 01/01/14 - 31/12/17  
 Project code: 2014/100573

**Comportamiento ecosocial de los homínidos de la Sierra de Atapuerca durante el Cuaternario III**

Principal investigator: Eudald Carbonell  
 Host institution: IPHES  
 Funder: Ministerio de Economía y Competitividad. Gobierno de España (MINECO)  
 Dates of Project (beginning and end): 01/01/13 - 31/12/15  
 Project code: CGL2012-38434-C03-03

**Dinámica ambiental y respuestas humanas durante el postglacial en la fachada mediterránea de la Península Ibérica (C. 12700-8000 CAL. BP)**

Principal investigator: Francesc Burjachs / Javier Fernández  
 Host institution: IPHES  
 Funder: Ministerio de Economía y Competitividad. Gobierno de España (MINECO)  
 Dates of Project (beginning and end): 01/01/14 - 31/12/16  
 Project code: HAR2013-41197-P

**Dispersiones faunísticas y evolución climática en los ecosistemas terrestres del Mediterráneo occidental durante el Pleistoceno Inferior: ¿Este-oeste O norte-sur?**

Principal investigator: Jordi Agustí  
 Host institution: IPHES  
 Funder: Ministerio de Economía y Competitividad. Gobierno de España (MINECO)  
 Dates of Project (beginning and end): 01/01/13 - 31/12/15  
 Project code: CGL2012-38358

**El Plio-pleistocè del Camp dels Ninots i la depressió prelitoral: evolució paleoclimàtica, dispersions faunístiques i humanes**

Principal investigator: Jordi Agustí  
 Host institution: IPHES  
 Funder: Departament de Cultura. Generalitat de Catalunya  
 Dates of Project (beginning and end): 01/01/14 - 31/12/17  
 Project code: 2014/100575

**Estudio paleobiológico de los grandes mamíferos plio-pleistocénicos de Orce, Incarcal y La Boella en el contexto mediterráneo**

Principal investigator: Bienvenido Martínez-Navarro





Host institution: IPHES

Funder: Ministerio de Economía y Competitividad. Gobierno de España (MINECO)

Dates of Project (beginning and end): 01/01/11 - 30/06/14

Project code: CGL2010-15326/BTE

**Evolució paleoambiental i poblament prehistòric a les conques dels rius Francolí, Gaià, Siurana i rieres del camp de Tarragona**

Principal investigator: Josep Maria Vergés

Host institution: IPHES

Funder: Departament de Cultura. Generalitat de Catalunya

Dates of Project (beginning and end): 01/01/14 - 31/12/17

Project code: 2014/100574

**Momentos de la vida neandertal: Patrones de comportamiento y arqueología de alta resolución**

Principal investigator: Manuel Vaquero / Florent Rivals

Host institution: IPHES

Funder: Ministerio de Economía y Competitividad. Gobierno de España (MINECO)

Dates of Project (beginning and end): 01/01/14 - 31/12/16

Project code: HAR2013-48784-C3-1-P

**Presencia humana y contexto paleoecológico en la cuenca continental de Guádxix-Baza. Estudio e interpretación a partir de los depósitos plioleocénicos de Orce. Granada. España**

Principal investigator: Robert Sala and Bienvenido Martínez-Navarro

Host institution: IPHES

Funder: Junta de Andalucía

Dates of Project (beginning and end): 05/12/12 – 05/01/16

Project code: B120489SV18BC

**Other actions**

**Cova de les Llenes (Pallars Jussà)**

Project manager: Edgard Camarós

Host institution: IPHES

Funder: Consell Comarcal del Pallars Jussà (CCPJ) and Diputació de Lleida

Dates of Project (beginning and end): 08/07/13 - 07/08/14

Project code: s/ref.

**Recerca sobre "Smart Cities i Evolució Social"**

Project manager: Sergio Lozano

Host institution: IPHES

Funder: FTSMC

Dates of Project (beginning and end): 19/03/14 - 31/12/14

Project code: Agreement



## Research Grants

### Marie Skłodowska-Curie actions (ERC)

#### **PRETM - Prehistoric Transitions in the Mediterranean: Cultural and economic responses to climate change during the Mesolithic-Bronze Age**

Beneficiary: Samantha Jones

Host institution: IPHES

Funder: ERC

Dates of Project (beginning and end): 01/03/14 - 29/02/16

Project code: 628589

### Ramon y Cajal (MINECO)

#### **Paisajes humanizados, modelización paleoecológica y social**

Beneficiary: Javier Fernández

Host institution: IPHES

Funder: Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)

Dates of Project (beginning and end): 01/01/12 - 31/12/16

Project code: RYC2011-09363

#### **Modelización y otros métodos cuantitativos de análisis al estudio de la evolución humana**

Beneficiary: Sergio Lozano

Host institution: IPHES

Funder: Ministerio de Economía y Competitividad. Gobierno de España (MINECO)

Dates of Project (beginning and end): 01/01/14-31/12/18

Project code: RYC-2012-10379

### FPI (MINECO)

#### **Comportamiento ecosocial de los homínidos de la Sierra de Atapuerca durante el Cuaternario**

Beneficiary: Antonio Rodríguez

Host institution: IPHES

Funder: Ministerio de Economía y Competitividad. Gobierno de España (MINECO)

Dates of Project (beginning and end): 01/10/12 - 30/09/14

Project code: BES-2010-034216

#### **Conexiones intra-site e inter-site. Los remontajes líticos para la identificación de zonas de actividad, patrones de movilidad interna e inter-relaciones entre yacimientos del Pleistoceno medio: el nivel TD10-1 de Gran Dolina y el nivel GIII de Galería (Sierra de Atapuerca, Burgos) y la Cansaladeta (La Riba, Tarragona)**

Beneficiary: Esther López

Host institution: IPHES

Funder: Ministerio de Economía y Competitividad. Gobierno de España (MINECO)

Dates of Project (beginning and end): 16/01/14-15/01/18

Project code: BES-2013-065048



**FPU (MECD)****El consumo de pequeñas presas durante el Paleolítico Medio: estrategias de subsistencia de los Homínidos. El caso de la cueva de les Teixoneres (Moià, Barcelona)**

Beneficiary: Anna Rufà

Host institution: IPHES

Funder: MECD

Dates of Project (beginning and end): 08/04/13 – 07/04/17

Project code: FPU12/00238

**Evolución de las paleocomunidades de micromamíferos en el Neógeno superior y Cuaternario del Levante español**

Beneficiary: Pedro Piñero

Host institution: IPHES

Funder: MECD

Dates of Project (beginning and end): 08/04/13 – 07/04/17

Codi de referencia del projecte: FPU12/02668

**Predadores y presas: explotación de los recursos faunísticos por los grupos neandertales de los Valles de Alcoy (MIS 3). El caso del yacimiento arqueológico de El Salt (Alcoy, Alicante).**

Beneficiary: Leopoldo Jesús Pérez

Host institution: IPHES

Funder: MECD

Dates of Project (beginning and end): 01/10/14 - 30/09/18

Project code: FPU13/01885

**FI-DGR-AGAUR****Estudio geoarqueológico de las paleopoblaciones de la Cuenca Francolí-Gaià. Reconocimiento de las áreas fuentes silíceas y utilización diferencial de materias primas abióticas**

Beneficiary: María Luisa Soto

Host institution: IPHES

Funder: AGAUR

Dates of Project (beginning and end): 01/03/11 - 28/02/14

Project code: 2011FI\_B1 00623

**Transformacions culturals durant la transició Pleistocè – Holocè. Anàlisi tècnic, tecnològic i morfomètric (mitjançant l'ús de la tecnologia 3D) de les produccions lítiques dels últims caçadors recol·lectors en la vessant mediterrània del Nord-Est peninsular**

Beneficiary: Juan Ignacio Morales

Host institution: IPHES

Funder: Ministerio de Economía y Competitividad. Gobierno de España (MINECO)

Dates of Project (beginning and end): 01/04/12 - 31/03/15

Project code: 2012FI\_B 00588

**Comportament neandertal a través de la interacció entre homínids i carnívors**

Beneficiary: Edgard Camarós

Host institution: IPHES

Funder: Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)



Dates of Project (beginning and end): 01/02/13 - 31/01/16  
Project code: 2013FI\_B 00148

**Microwear and residue analyses of quartzite stone tools from the Pleistocene sites of Gran Dolina-TD10 (Sierra de Atapuerca, Burgos, Spain) and Payre (Ardèche, Rhône Valley, France)**

Beneficiary: Antonella Pedergrana

Host institution: IPHES

Funder: Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)

Dates of Project (beginning and end): 01/02/14 - 31/01/17

Project code: 2014FI\_B 00539

**Fundación Atapuerca**

**Early Pleistocene Ecological relations among Omnivorous species: Pigs, Bears, Monkeys and Hominins**

Beneficiary: Tsegai Medin

Host institution: IPHES

Funder: Fundación Atapuerca

Dates of Project (beginning and end): 01/01/12 - 31/12/15

**Lithic Assemblages of Prehistoric sites in Khorramabad valley, western Iran. Implications for Understanding the Technological Variability**

Beneficiary: Behrouz Bahzir

Host institution: IPHES

Funder: Fundación Atapuerca

Dates of Project (beginning and end): 01/05/13 - 30/04/16

**Estudio taxonómico y tafonómico de los restos óseos de animales del Pleistoceno Superior de Valsequillo, Puebla, México**

Beneficiary: Óscar Ricardo Solís

Host institution: IPHES

Funder: Fundación Atapuerca

Dates of Project (beginning and end): 01/01/14 - 31/12/17

**AECID**

**Consolidation des restes osseux: application aux matériels des gisements Pléistocènes de Aïn Hanech (Algérie)**

Beneficiary: Souhila Roubach

Host institution: IPHES

Funder: AECID

Dates of Project (beginning and end): 01/10/11 - 30/09/14

**Wenner-Gren Foundation**

**A study of the stone tool assemblages of Azokh Cave site, Nagorno Karabakh (Lesser Caucasus)**

Beneficiary: Lena Asryan

Host institution: IPHES

Funder: Wenner-Gren Foundation



Dates of Project (beginning and end): 2010-2014  
Project code: WIF - 212



## Publications

### Articles (JCR)

Alba, D., Colombero, S., Delfino, M., Martínez-Navarro, B., Pavia, M., Rook, L. 2014, **A thorny question: The taxonomic identity of the Pirro Nord cervical vertebrae revisited**, *Journal of Human Evolution* 76: 92-106.

Arilla, M., Rosell, J., Blasco, R., Domínguez-Rodrigo, M., Pickering, T. R. 2014, **The “Bear” Essentials: Actualistic Research on *Ursus arctos arctos* in the Spanish Pyrenees and its implications for Paleontology and Archaeology**, *PLOS ONE* 9(7): e102457.

Arnold, L.J., Demuro, M., Parés, J.M., Arsuaga, J.L., Aranburu, A., Bermúdez de Castro, J.M., Carbonell, E. 2014, **Luminescence dating and palaeomagnetic age constraint on hominins from Sima de los Huesos, Atapuerca, Spain**, *Journal of Human Evolution* 67 (0): 85-107.

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## Referee of scientific articles, scholarships or research projects

### Referee of scientific articles with impact factor

***African Journal of History and Culture.***

1 article reviewed

***American Journal of Physical Anthropology.***

3 articles reviewed

***American Journal of Primatology.***

1 article reviewed

***Archaeological and Anthropological Sciences.***

1 article reviewed

***CATENA.***

1 article reviewed

***Chungara. Revista de Antropología Chilena.***

1 article reviewed

***Geobios.***

1 article reviewed

***International Journal of Osteoarchaeology.***

1 article reviewed

***Journal of Archaeological Science.***

13 paper reviewed

***Journal of Archaeological Science Reports.***

1 article reviewed

***Journal of Comparative Psychology.***

1 article reviewed

***Journal of Human Evolution.***

4 articles reviewed

***Journal of Quaternary Science.***

2 articles reviewed

***Micron.***

2 articles reviewed

***Palaeontologia Electronica.***

1 article reviewed





***Paleoanthropology Journal.***

1 article reviewed

***Physical Review E.***

1 article reviewed

***PLOS ONE.***

16 articles reviewed

***Quaternaire.***

1 article reviewed

***Quaternary International.***

15 articles reviewed

***Quaternary Science Reviews.***

4 articles reviewed

***Revista Mexicana de Ciencias Geológicas.***

1 article reviewed

***Royal Society Science.***

1 article reviewed

***Scientometrics.***

2 articles reviewed

***Special volume Springer.***

1 article reviewed

***Zoological Studies.***

1 article reviewed

**Referee of scientific articles without impact factor*****Actas de la IV Reunión Científica de Arqueomalacología de la Península Ibérica.***

1 article reviewed

***Archaeofauna. International Journal of Archaeozoology.***

1 article reviewed

***Edited book by Presses universitaires de Provence.***

1 book chapter

***Geogaceta.***

1 article reviewed

***Journal of Scientific Research and Reports.***

1 article reviewed

***Munibe.***

1 article reviewed



**Revista chilena de Antropología.**

8 articles reviewed

**Relaciones de la Sociedad Argentina de Antropología.**

1 article reviewed

**Boletín de la Sociedad Chilena de Arqueología.**

1 article reviewed

**Referee of scholarships****AGUAR, Ajuts de col·laboració per estudiants de master,** course 2014-15. 2 scholarships.

Evaluator: Carlos Lorenzo

**Eramus Mundus International Master scholarships,** course 2014-15. 5 scholarships.

Evaluator: Carlos Lorenzo.

**Erasmus Mundus International Doctorate Scholarship,** course 2014-15. 5 scholarships.

Evaluator: Carlos Lorenzo.

**European Research Council. IEF-Marie Curie Actions**

Evaluator: J. Fernández-López de Pablo

**Fundació Catalunya-La Pedrera 2014,** course 2014-15. 1 scholarship.

Evaluator: Carlos Lorenzo.

**Leakey Foundation (USA).** 2 scholarships.

Evaluators: Carlos Lorenzo, F. Rivals.

**National Geographic Society.** 1 scholarship

Evaluator: R. Blasco

**SDE/GWIS National Fellowships Program (USA).** 1 scholarship

Evaluator: F. Rivals.

**URV, Beques per estudiants internacionals de màster,** course 2014-15. 1 scholarship.

Evaluator: Carlos Lorenzo

**Referee of research projects****Agence Nationale de la Recherche (France)**

Evaluator: Florent Rivals.

**ANEP - Agencia Nacional de Evaluación y Prospectiva (Espanya)**

Evaluator: Sergi Lozano



**ANPCyT - Agencia Nacional de Promoción Científica y Tecnológica  
(Argentina)**

Evaluator: Sergi Lozano

**Committee for Research**

Evaluator: Bienvenido Martínez-Navarro

**COST Open Call for Trans-Domain Proposals (Unió Europea)**

Evaluator: Sergi Lozano

**Deutsche Forschungsgemeinschaft (German Research Foundation)**

Evaluator: Florent Rivals.

**Jóvenes Investigadores - Área Cs. Humanas – FONCyT (Argentina)**

Evaluator: Boris Santander



## Field research & archaeological excavations directed by IPHES



Abric Romaní, Capellades (Barcelona) / IPHES

### Catalonia

#### **Abric Romaní**

Location: Capellades (Igualada)

Chronology: Upper Pleistocene

Director: **E. Carbonell**

Research report: Memòria d'excavació de l'Abric Romaní. Campanya del 2014.

Institution that has been sent the annual report: Departament de Cultura de la Generalitat de Catalunya.

#### **Abric I del barranc de Fontscaldes**

Location: Cornudella de Montsant

Chronology: Upper Pleistocene - Holocene

Director: **R. Viñas**

Research report: Informe de la intervenció arqueològica a l'Abric I del barranc de Fontscaldes (Cornudella de Montsant, Priorat, Tarragona).

Institution that has been sent the annual report: Departament de Cultura, Generalitat de Catalunya.

#### **Barranc de la Boella**

Location: La Canonja (Tarragonès)



Chronology: Early - Middle Pleistocene

Directors: **J. Vallverdú, P. Saladié**

Research report: Informe de la campanya de l'excavació arqueològica al Barranc de la Boella, campanya 2014.

Institution that has been sent the annual report: Departament de Cultura de la Generalitat de Catalunya.

### **Camp dels Ninots**

Location: Caldes de Malavella (La Selva)

Chronology: Pleistocene

Directors: **J. Agustí, B. Gómez, G. Campeny**

Research report: Memòria d'excavació del Camp dels Ninots. Campanya de 2013.

Institution that has been sent the annual report: Departament de Cultura de la Generalitat de Catalunya.

### **Cova de les Borres**

Location: La Febró

Chronology: Upper Pleistocene

Directors: **M. Soto, J. Vallverdú**

Research report: Informe d'excavació de la Cova de les Borres. Campanya del 2014.

Institution that has been sent the annual report: Departament de Cultura de la Generalitat de Catalunya.

### **Cova dels Xaragalls**

Location: Vimbodí i Poblet, Tarragona

Chronology: Early Pleistocene-Upper Pleistocene-Holocene

Director: **J. Vallverdú**

Research report: Informe preliminar Xaragalls

Institution that has been sent the annual report: Departament de Cultura de la Generalitat de Catalunya

### **Molí del Salt**

Location: Vimbodí i Poblet (Conca de Barberà)

Chronology: Upper Pleistocene

Director: **M. Vaquero**

Research report: Memòria d'excavació del Molí del Salt. Campanya del 2013.

Institution that has been sent the annual report: Departament de Cultura de la Generalitat de Catalunya.

### **Sondatge per a estudis paleoambientals Paleollacuna de la Vall d'en Bas**

Location: Les Preses (Girona)

Chronology: Holocene

Directors: J. Revelles, **F. Burjachs**, M. Saña

## **Spain**

### **Casa Corona**

Location: Villena (Alacant)

Chronology: Early Mesolithic, Late Mesolithic, Chalcolithic

Director: **J. Fernández López de Pablo**

Research report: In progress



**Cova Eirós**

Location: Triacastela (Lugo)

Chronology: Upper Pleistocene

Directors: **X. P. Rodríguez**, A. de Lombera-Hermida

Research report: Memoria de excavación de Cova Eirós. Campaña del 2014.

Institution that has been sent the annual report: Xunta de Galicia

**Cueva de Santa Ana**

Location: Cáceres (Extremadura)

Chronology: Early - Middle Pleistocene

Directors: **E. Carbonell, A. Canals**

Research report: Memoria de excavación de la Cueva de Santa Ana. Campaña del 2014.

Institution that has been sent the annual report: Junta de Extremadura

**El Conejar**

Location: Cáceres (Extremadura)

Chronology: Holocene

Director: **A. Canals**

**El Millar**

Location: Cáceres (Extremadura)

Chronology: Upper Pleistocene

Directors: **E. Carbonell, A. Canals**

Research report: Memoria de excavación de la Cueva de Santa Ana. Campaña del 2014.

Institution that has been sent the annual report: Junta de Extremadura

**Orce: Barranco León, Fuente Nueva 3 and Venta Micena.**

Location: Orce (Granada)

Chronology: Early Pleistocene

Directors: **R. Sala, B. Martínez-Navarro**

Research report: Memoria de excavación de Orce. Campaña del 2014.

Institution that has been sent the annual report: Consejería de Educación, Cultura y Deporte. Junta de Andalucía.

**Paleollacuna de Villena**

Location: Villena (Alacant)

Chronology: Late Glacial - Middle Holocene

Directors: **J. Fernández López de Pablo, F. Burjachs, S. Jones**

Research report: Informe Preliminar de los Sondeos Palinológicos Realizados en la Laguna de Villena.

Institution that has been sent the annual report: Direcció General de Patrimoni de la Generalitat Valenciana

**Quibas**

Location: Abanilla (Murcia)

Chronology: Early Pleistocene

Directors: **J. Agustí, P. Piñero**

Research report: Informe de la actuación paleontológica en el yacimiento de Quibas (2014)

Institution that has been sent the annual report: Consejería de Educación, Cultura y Universidades. Comunidad Autónoma de la Región de Murcia



**Registre i estudi de les pintures paleolítiques de la Cueva de la Fuente del Trucho**

Location: Asque, Colungo (Osca)

Chronology: Upper Pleistocene - Holocene

Directors: **R. Viñas**, V. Baldellou

**Sierra de Atapuerca: Sima del Elefante, Galería, Gran Dolina, Cueva del Mirador**

Location: Ibeas de Juarros, Atapuerca (Burgos)

Chronology: Pleistocene to Holocene

Directors: J.L. Arsuaga, J.M. Bermúdez de Castro, **E. Carbonell**

Research report: Memoria de excavación de los yacimientos de la Sierra de Atapuerca. Campaña de 2014.

Institution that has been sent the annual report: Junta de Castilla y León

**International****Ain Ben Metnar**

Location: Ain Beni Methar (Morocco)

Chronology: Pleistocene and Holocene

Directors: **R. Sala**, **M. G. Chacón**

**Barranca del Muerto (Oaxaca, México)**

Location: Santiago Chazumba

Chronology: Upper Pleistocene

Directors: **R. Viñas**, J. Arroyo

Research report: Informe d'excavació de Barranca del Muerto. Campaña del 2013.

Institution that has been sent the annual report: Consejo de Arqueología del Instituto Nacional de Antropología e Historia de México.

**Engel Ela-Ramund Basin**

Location: Eritrea (Ethiopia)

Chronology: Plio - Pleistocene

Directors: **B. Martínez-Navarro**, **E. Carbonell**, **T. Medin**

Research report: Memòria d'excavació de l'Engel Ela-Ramund Basin. Campaña del 2014.

Institution that has been sent the annual report: Museo Nacional de Eritrea, Asmara.

**Kaldar**

Location: Khorramabad (Iran)

Chronology: Upper Pleistocene-Holocene

Director: **B. Bazgir**

Research report: Kaldar Cave, report of the 2014 archaeological excavation.

Institution that has been sent the annual report: Research Institute of Cultural Heritage and Tourism

**Oued Sarrat**

Location: Tejeruine-El Kef (Tunisia)

Chronology: Middle-Upper Pleistocene

Directors: N. Karoui-Yaakoub, **B. Martínez-Navarro**



Research report: Memòria d'excavació de Oued Sarrat Basin. Campanya del 2014.

Institution that has been sent the annual report: Facultat de Ciències de Bizerte, Universitat de Cartago (Tunisia).

**Vallone Inferno**

Location: Scillato (Palermo, Sicily)

Chronology: Upper Pleistocene - Holocene

Direction: **V. Forgia, J.M. Vergès, A. Ollé.**

Research report: Scavo archeologico al Vallone Inferno (PA). 2014.

Institution that has been sent the annual report: Beni Culturali Regione Siciliana.

**Vanguard Cave**

Location: Gibraltar

Chronology: Upper Pleistocene

Directors: **R. Blasco, J. Rosell**





## Archaeological excavations participated by the staff of IPHES



Cova Eirós (Galicia) / IPHES

### Catalonia

#### **Balma de la Griera**

Location: Calafell (Tarragona)  
Chronology: Upper Pleistocene  
Directors: A. Cebrià, J. Nadal

#### **Cau del Roure**

Location: Serinyà (Pla de l'Estany, Girona)  
Chronology: Upper Pleistocene  
Director: J. Marotó



**Cova Foradada**

Location: Calafell (Tarragona)  
 Chronology: Upper Pleistocene  
 Directors: A. Cebrià, M. Pedro

**Cova de la Guineu**

Location: Font-Rubí (Vilafranca del Penedès)  
 Chronology: Upper Pleistocene  
 Directors: A. Cebrià, X. Oms

**Spain****Arte rupestre paleolítico de Cova Eiròs (Evolución del poblamiento cuaternario en las comarcas orientales de Galicia)**

Location: Triacastela (Galicia)  
 Chronology: Upper Pleistocene to Holocene  
 Director: R. Fábregas

**Cova del Bolomor**

Location: Tavernes de la Valldigna (València)  
 Chronology: Middle Pleistocene  
 Director: J. Fernández-Peris

**Des-cubierta**

Location: Pinilla del Valle (Madrid)  
 Chronology: Upper Pleistocene  
 Directors: J.L. Arsuaga, E. Baquedano

**International****Azokh Cave**

Location: Azokh (Nagorno-Karabakh)  
 Chronology: Middle-Upper Pleistocene  
 Directors: T. King, Blandford Town Museum (England)

**Dmanisi**

Location: Dmanisi (Georgia)  
 Chronology: Early Pleistocene  
 Director: David Lordkipanidze

**La grotte de Cussac**

Location: Le Buisson de Cadouin (Dordogne, France)  
 Chronology : Upper Pleistocene  
 Director: J. Jaubert (Université Bordeaux)  
 Research report: N. Goutas & L. López-Polín, 2014 : Les artefacts en bois de renne du secteur amont: Prélèvement, échantillonnage et traitement. (Opération de terrain 2014), in J.Jaubert (ed.) : Grotte de Cussac (Le Buisson de Cadouin, Dordogne), Rapport de Project collective de Recherche thématique avec relevé d'art rupestre triennale 2013-2015. (PCR) de 1/0713.  
 Institution that has been sent the annual report: Service régional de l'archéologie (SRA) d'Aquitaine



**Gona**

Location: Regió Afar (Ethiopia)

Chronology: Early Pleistocene

Director: S. Semaw

**Tighenif**

Location: Argèlia

Chronology: Early-Middle Pleistocene

Director: Mohamed Sahouni



## Congresses, workshops & seminars

### Spain

#### **“El Foc i la Prehistòria: una visió des de la Geoarqueologia”**

Venue: Facultat de Geografia i Història, Universitat de Barcelona, Barcelona

Date: April 2014

Authors: Blasco, R.

Oral presentation: *“El significado de los huesos quemados: implicaciones comportamentales en los yacimientos pleistocenos”*.

#### **“Encuentro de Jóvenes Investigadores en Paleontología”**

Location: Cercedilla (Madrid)

Date: 15-18 April 2015

Authors: Piñero, P., Agustí, J., Furió, M., Blain, H.A.

Oral presentation: *“Los roedores del Pleistoceno inferior del yacimiento de Quibas (Murcia): Implicaciones biocronológicas y paleoambientales”*

#### **“Humanitats i ORCID”. Les Ciències Socials i les Humanitats coneixen a ORCID; Cap a una col·laboració fructífera. CREA-UB i Impact-EV (EU FP7/2014-2017 nº 613202”**

Venue: Universitat de Barcelona, Barcelona,

Date: 15/05/2014

Author: Pastó, I.

Oral presentation: *“La experiencia del IPHES como centro del Area de Humanidades en el contexto de ORCID”*.

#### **“II Jornades de la Societat d’ Història Natural del Ports”**

Location: Vilafranca (Castelló).

Date: May 2014

Authors: Viñas R., Morote, G.

Oral presentation: *“Investigacions de l’ Art Rupestre de Valltorta-Gasulla”*.

#### **“IV Jornades del Bosc de Poblet i Muntanyes de Prades”.**

Venue: Palau de l’ Abat de Prades (Tarragona)

Date: 14, 15 November 2014

Author: Viñas, R. (presentació per absència, J. M. Vergès)

Oral presentation: *“El barranc del Mas d’en Llorç. Difusió i conservació de l’ art rupestre de les Muntanyes de Prades (Montblanc, Tarragona)”*.

Author: Vergès, J.M., Allué E., Burjachs F., Cabanes D., Carrancho, Á., Expósito, I., Martín, P., Morales, J.I., Vallverdú, J., Viñas, R.



Poster: "L'estudi de la ramaderia prehistòrica a partir de dades experimentals obtingudes en espais ramaders actuals: el cas del corral del Mas del Pepet (Rojals, Montblanc)".

**"IV Congreso Arqueología Experimental"**

Location: Burgos

Date: May 2014

Author: Cáceres, I.

Oral presentation: *Candidature proposal of Iphes for organization of V Congreso Arqueología Experimental in 2017.*

**"Jornades d'Arqueologia Balear"**

Location: Eivissa

Date: Setembre 2014

Authors: Camarós, E., Cueto, M., Teira, L., Lozano, M., López-Dóriga, I., Sureda, P.

Oral presentation: *"Més enllà del poblat. Resultats preliminars del primer programa de prospeccions arqueològiques de les cavitats de Formentera"*.

**"Jornada les arrels premedievales de la cuina catalana. Els orígens de la nostra història gastronòmica"**

Venue: Fundació Alicia, Complex Món Sant Benet, Sant Fruitós de Bages.

Date: 3 de novembre 2014

Authors: Burjachs, F., Nadal, J., Revelles, J., Garcia, Ll.

Oral presentation: *"Paleolític"*

**Magistral course: "Evolución humana y Atapuerca, construyendo un paradigma"**.

Venue: Universidad Menéndez Pelayo (Santander)

Date: June 2014

Author: Carbonell, E.

**"Primeres Jornades d'Arqueologia dels Pirineus i Aran"**

Location: Coll de Nargó

Date: November 2014

Authors: Oms, X., Pedro, M., Morales, J.I., Frigola, J., Mendiola, S., Rodríguez Cintas, A., Serra, J., Yubero, M.

Oral presentation: *"La Cova Colomera 30 anys després. Ocupacions humanes entre 6180-3280 BP al Congost de Mont-rebei (campanyes de 2005-2011)"*.

Authors: Bargalló, A., Morales, J.I., Solé, A., Martín, P., Gabucio, M.J., Burjachs, F.

Oral presentation: *"La Balma de la Massana (Alsamora, Sant Esteve de la Sarga). Intervencions arqueològiques 2008-2010 i resultats preliminars"*.



**“Seminari de Recerca Interdisciplinària “Com obtenir finançament per fer recerca? Una experiència europea”**

Location: Tarragona, Catalunya,

Date: 17/05/2014

Authors: Pastó, I.

Oral presentation: *“Carrera Investigadora i accions personals: context, experiències i consells pràctics per assolir una beca d’investigació”*.

**“Seminari Interdisciplinar Els reptes de l’Arqueologia Litoral”**

Venue: Tarragona, ICAC

Date: 24/04/2014

Authors: Fernández López de Pablo, J.

Oral presentation: *“Coastal resource exploitation from the Middle Palaeolithic to the Mesolithic in the Mediterranean basin: State of the art and future directions”*.

**“Seminario de Arte Prehistórico, Universidad Valenciana de Verano. Aula de Humanidades y Ciencias. Sección de Prehistoria y Arqueología (SEAP)”**

Location: Ares del Maestre (Castelló).

Date: Juliol 2014

Authors: Viñas, R.

Oral presentation: *“Evidencias técnicas y concepción paleolítica en el Arte Levantino”*

Authors: Viñas, R., Morote, G., Rubio, A., Ruiz, J.F.

Oral presentation: *“El proyecto: El arte rupestre del Parque cultural de la Valltorta-Gasulla y zona norte de Castellón: Revisión de Cueva Remigia”*.

**“XII Jornades d’Arqueologia de les comarques de Girona”**

Location: Besalú (Girona)

Date: 13-14 June 2014

Authors: Gómez de Soler, B., Campeny Vall-Ilosera, G.

Oral presentation: *“El jaciment del Camp dels Ninots (Caldes de Malavella, la Selva). Intervencions en el bienni 2012-2013”*

**“XXX Jornadas de Paleontología”**

Location: Teruel

Date: 16-18 October 2014

Authors: Ros-Montoya, S., Martínez-Navarro, B., Miller, J.

Oral presentation: *“Paleopatologías como evidencia de selección de presas en el yacimiento del Pleistoceno inferior de Venta Micena (Orce, Granada, España). XXX Jornadas de Paleontología de la Sociedad Española de Paleontología”*.

Authors: Martínez-Navarro, B., Madurell-Malapeira, J., Ros-Montoya, S., Patrocinio Espigares, M.P. Medin, T., Palmqvist, P.

Oral presentation: *“El Epivillafranquiense y la llegada de suidos a Europa. XXX Jornadas de Paleontología de la Sociedad Española de Paleontología”*.



Authors: Sergio Ros-Montoya, S., Martínez Navarro, B., Espigares, M.P., Palmqvist, P.  
 Oral presentation: *“Evolución dental en el género Mammuthus: El registro de las cuencas de Guadix-Baza y Granada. XXX Jornadas de Paleontología de la Sociedad Española de Paleontología”*.

**“4a Escola de Primavera de l’ACER”**

Location: Tarragona  
 Date: June 2014

Autors: Cinta S. Bellmunt  
 Oral presentation: *“Eudald Carbonell: Arqueòleg per vocació, comunicador per militància”*

**“Programa de formació científica, tecnològica i matemàtica (CTM)”**

Location: Tarragona  
 Date: January 2014

Autors: Cinta S. Bellmunt  
 Oral presentation: *“La comunicació social de la ciència”*

**International**

**“4th International Experimental Archaeology Conference (8-11 May), MEH Burgos”**

Venue: Museo de Evolución Humana Burgos  
 Date: 8-11 May 2014

Authors: Bourguignon, L., Barsky, D., Cuartero, F., de Weyer, L., Ivorra, J., Magniez, P., Rios Garaizar, J.

Oral presentation: *“Establishment of an experimental framework for the recognition of technical production and use stigma on basalt”*.

Authors: Pineda, A., Saladié, P., Vergès, J.M., Huguet, R., Cáceres, I., Vallverdú, J.  
 Oral presentation: *“Trampling vs huellas de corte sobre superficies químicamente alteradas en el yacimiento de el Barranc de la Boella (la Canonja, Tarragona, Spain)”*.

**“4th International Palaeontological Congress (IPC)”**

Location: Mendoza (Argentina)  
 Date: 28 September – 3 October 2014

Authors: Rivals, F., Lister, A.M.  
 Oral presentation: *“Dental wear and dietary evolution of Equidae and Rhinocerotidae during the Quaternary in Western Europe”*

**“5th International Maar Conference”**

Location: Queretano (Mèxic)  
 Date: 17-21 November 2014



Authors: Oms, O., Bolós, X., Barde-Cabusson, S., Martí, J., Casas, A., Lovera, R., Himi, M., Gómez de Soler, B., Campeny Vall-Ilosera, G., Pedrazzi, D., Agustí, J.  
 Póster: *Structure of the Pliocene Camp dels Ninots maar-diatreme (Catalan volcanic zone, NE Spain).*

### **"12th International Conference of ArchaeoZoology (ICAZ)"**

Location: San Rafael (Argentina)

Date: 22-27 September 2014

Organization of the session "Stories written in teeth: New archaeological insights from tooth related studies". Rivals, F., Camarós, E., Sánchez-Hernández, C.

Authors: Sánchez-Hernández, C., Rivals, F., Semperebon, G.

Oral presentation: *"Detecting seasonality of Neanderthal occupations: why differences in tooth mesowear and microwear results lead to better dietary discrimination"*.

Authors: Blain, H.-A., Agustí, J., Cuenca-Bescós, G.

Oral presentation: *"Reconstructing Quaternary climate and landscape using amphibians and reptiles: the case of the first human settlement in Western Europe"*

Authors: Fernández Díaz-Maroto, P., Saladié, P., Rodríguez Hidalgo, A., Huguet, R., Cáceres, I., Carbonell, E.

Poster: *"Zooarqueología y Tafonomía del subnivel de Pleistoceno Early TD6-3 del yacimiento de Gran Dolina, Sierra de Atapuerca (Burgos)"*.

Authors: Cartajena, I., López P., Santander B., Núñez L., Rivera, B.

Oral presentation: *"The nature of discarding and ritual practices among complex hunters gatherers and early herders in the western slope of the Atacama Puna (ca. 5200-2300 years cal. B.P.)"*.

Authors: Santander, B., López P., Cartajena, I.

Oral presentation: *"Bone tools at the Valley of Mauro, Semiarid North of Chile. Morphological and Functional variability in bone technology under a diachronical perspective"*.

### **"56th Annual Meeting of the Hugo Obermaier Society"**

Location: Brunswick, Germany.

Date: 22-26 April 2014

Authors: Chacón, M.G., Rufà, A., Sánchez C., Arilla, M., Blain, H.-A., Camarós, E., Gómez de Soler, B., Fernández, M., López-García, J.M., Picin, A., Rivals, F., Blasco, R., Rosell, J.

Oral presentation: *"New interdisciplinary data to understand the short-term occupations at Teixoneres cave (Moià, Barcelona, Spain)"*

Authors: Chacón, M.G., Bargalló, A., Alconchel, S., Gómez, B., Soto, M., Romagnoli, F., Vaquero, M.

Oral presentation: *"The importance of limestone in the subsistence activities during the Middle Paleolithic: the levels J, M and O assemblages of the Abric Romaní site (Barcelona, Spain)"*.





Authors: Chacón, M.G., Rufà, A., Sánchez, C., Arilla, M., Blain, H.-A., Camarós, E., Gómez de Soler, B., Fernández, M., López-García, J.M., Picin, A., Rivals, F., Blasco, R., Rosell, J.

Oral presentation: *"New interdisciplinary data to understand the short-term occupations at Teixoneres cave (Moià, Barcelona, Spain)"*.

Authors: Rivals, F., Julien, M.A., Drucker, D., Bocherens, H., Kuitens, M., Thijs van Kolfschoten, Serangeli, J., Conard, N.J.

Oral presentation: *"Exploring horse feeding behavior and accumulation processes at Schöningen 13 II-4: insights from tooth wear and isotopic analyses"*.

#### **"57th Irish Geological Research Meeting"**

Location: Galway (Irlanda)

Date: May 2014

Authors: King, T., Allué, E., Andrews, P., Asryan, L., Barham, M., Blain, H.-A., Cáceres, I., Dominguez-Alonso, P., Fernandez-Jalvo, Y., Hixson Andrews, S., Lynch, E., Mardiyani, A., Marin-Monfort, M.D., Moloney, N., Ollé, A., Parfitt, S., Sevilla, P., Van der Made, J., Yepiskoposyan, L., Murray, J.

Poster: *"The Azokh Cave Complex: A Middle Pleistocene to Holocene site in the Lesser Caucasus"*.

#### **"74th Annual Meeting of the Society of Vertebrate Paleontology"**

Location: Berlin (Germany)

Date: 5-8 November 2014

Authors: Rivals, F.

Oral presentation: *"Dental wear and dietary evolution of Equidae and Rhinocerotidae during the Quaternary in Western Europe"*.

#### **"Calpe 2014. In the footsteps of the ancestors: a universal heritage of everyone"**

Location: Gibraltar

Date: September 2014

Authors: Blasco, R., Rosell, J.

Oral presentation: *"Following the footprints of the birdmen of Gorham's Cave: a zooarchaeological perspective"*

#### **"Cell Symposium: Evolution of Modern Humans – From Bones to Genomes"**

Location: Sitges

Date: March 2014

Authors: Cuenca-Bescós, G., Rofes, J., López-García, J.M., Lozano-Fernández, I., Blain, H.-A., Martínez, I., Ortega, A.I.

Poster: *"Humans and landscape dynamics during the Quaternary in Spain: the small vertebrate proxy"*.



**“Cinquième Rencontre Sur la Valorisation et la Préservation du Patrimoine Paléontologique RV3P5”**

Location: Oujda (Marruecos)

Date: May 2014

Miembro del Comité científico

Authors: Blain, H.-A., Agustí, J., López-García, J.M., Haddoumi, H., Aouraghe, H., el Hammouti, K., Pérez-González, A., Chacón, M.G., Sala, R.

Oral presentation: *“Les amphibiens et les reptiles du Miocène supérieur de Guefaït-1 (Province de Jerada, Maroc oriental)”*.

**“Colloque Tautavel: Les hominides du Pliocene et du pleistocene inferieur et moyen dans le monde. La place de l’homme de Tautavel, un homo heidelbergensis, il y a 450.000 ans.”**

Location: Tautavel

Date: June 2014

Author: Carbonell, E.

Oral presentation: *“Les hominidés fossils des sites préhistoriques de la Sierra d’Atapuerca (Sima del Elefante, Gran Dolina TD6, Galeria, Sima de los Huesos), dans le cadre géochronologique et biostratigraphique du Pléistocène”*.

**“Cultured Rainforest Exhibition and Seminar”**

Venue: Miri Petroleum Museum, Sarawak, Malaysian Borneo

Date: November - December 2014

Authors: Jones, S.

Oral presentation: *“Plants and People-A story from beneath your feet: A 50,000 year environmental & human history from the Kelabit Highlands”*.

**“EcoHCC’14 ; 3rd International Conference on Ecohydrology, Soil and Climate Change”**

Location: Tomar, Portugal.

Date: 10-12 September 2014

Authors: Ferreira, C., Rosina, P., Burjachs, F., Oosterbeek, L.

Oral presentation: *“Environmental and climate changes during Little Ice Age in Central Portugal”*.

**“EGU General Assembly 2014”**

Location: Vienna, Austria

Date: 27 April – 02 May 2014

Authors: Schulte, L., Peña, J.C., Burjachs, F., Carvalho, F., Llorca, J., Julià, R., Lomax, J., Schmidt, T., Rubio, P., Losada, J., Veit, H.

Oral presentation: *“Solar forcing and atmospheric control of paleoflood dynamics in the Bernese Alps, Switzerland”*.

Authors: Allué, E., Bennàsar, M., Biltekin, D., Blain, H.-A., Burjachs, F., Expósito, I., Euba, I., Fernández-García, M., López-García, J.M.



Poster: "Late Pleistocene (MIS 5-3) environmental reconstruction from north-eastern Iberia through microvertebrate and palaeobotanical records".

#### **"ESHE 2014"**

Location: Florence, Italy

Date: September 2014

Authors: García-Marínez, D., Bastir, M., Estalrich, A., García-Taberner, A., Huguet, R., Cuhna, E., Rosas, A.

Oral presentation: "Preliminary study of the head-neck complex of Neanderthal ribs from the El Sidrón site (Piloña, Asturias)".

#### **"ESHE 4th Annual Meeting (European Society for the Study of Human Evolution)"**

Location: Burgos

Date: 1-7 September 2014

Authors: Pablos, A., Lorenzo, C., Martínez, I., Gracia-Téllez, A., Carretero, J.M. & Arsuaga, J.L.

Oral presentation: "The stout navicular bones from the Middle Pleistocene site of Sima de los Huesos (Atapuerca, Burgos, Spain)".

#### **"European Acheuleans: Northern v. Southern Europe: Hominins, technical behaviour, chronological and environmental contexts"**

Venue: Paris, (Museum National d'Histoire Naturelle)

Date: 19-21 November 2014

Authors: Bourguignon, L., Barsky, D., Capdevila, R., Crochet, J.Y., Ivorra, J.

Oral presentation: "European Acheuleans Northern vs Southern Europe: Hominins, technical behaviour, chronological and environmental contexts".

Oral presentation: "The stone tools from Stratigraphical Unit 4 of the Bois-de-Riquet site (Lézignan-la-Cèbe, Hérault, France): a new milestone in the diversity of the European Acheulian".

Authors: Canals, A., Aranda, V., Barrero N., Bermejo, L., Donadei, P., Campaña, I., García, F.J., Mejías, D., Marín, J., Modestos, M., Morcillo, A., Rabazo, A., Rodríguez-Hidalgo, A., Carbonell, E.

Oral presentation: "Toward the west: the Acheulean complex of Santa Ana cave, Cáceres (Spain)".

Authors: Guardiola, M., Morales, J.I., Vergès, J.M.

Oral presentation: "From blunt to cutting: distinguishing alternating method flakes in early reduction stages on rounded blanks".

Authors: Mosquera, M., Saladié, P., Ollé, A., Cáceres, I., Huguet, R., Esteban M., Menéndez, L., Vilalta, J., Benàssar, Ll., Expósito, I., Ros, S., Vergès, J.M., Soto, M., Villalain, J.J., Carrancho, Á., Carbonell, E. and Vallverdú, J.

Oral presentation: "Barranc de la Boella (Catalonia, Spain): an Acheulean elephant butchery site at the European late Early Pleistocene".

Authors: Ollé, A., Rodríguez, X.P., Mosquera, M., García-Medrano, P., Barsky, D., de Lombera, A., Carbonell, E.



Oral presentation: "The European Acheulean from the Atapuerca perspective".

Authors: Ollé, A., Rodríguez, X.P., Mosquera, M., García-Medrano, P., Barsky, D., de Lombera, A., Carbonell, E.

Oral presentation: "European Acheuleans Northern vs Southern Europe: Hominins, technical behaviour, chronological and environmental contexts".

Oral presentation: "The European Acheulean from the Atapuerca perspective

Authors: Rodríguez-Hidalgo, A.; Saladié, P.; Ollé

Oral presentation: "Diachronic changes in the late Acheulean: Monospecific to broad faunal spectrums at Atapuerca-Gran Dolina TD10 level".

Authors: Blain, H.-A., Santonja, M., Pérez-González, A.

Oral presentation: "Revision of the amphibians and reptiles from the Acheulian site of Aridos-1 (Madrid, central Spain): paleoclimatic and paleoenvironmental implications during MIS 11".

Authors: Lozano-Fernández, I., Agustí, J., Blain, H.-A., Vallverdú, J.

Poster: "Biochronology of the early middle Pleistocene of La Boella site, based on rodents".



**"Fragmented Heritage Inaugural meeting"**

Location: Bradford (UK)

Date: June 2014

Authors: Ollé, A.

Oral presentation: *"The Sierra de Atapuerca sites (Spain) Lithic refitting, use-wear analysis, and 3D"*.**"International Conference, Great migrations: Settlements of Europe"**

Location: Granada

Date: 9-11 December 2014

Author: Rodríguez, X.P.

Oral presentation: *"The First Settlement of Europe"*.**"International Conference of the AEHE (Asociación Española de Historia Económica)"**

Location: Madrid

Date: September 2014

Authors: Lozano, S.

Oral presentation: *"La difusión del cambio técnico durante la industrialización en España: el caso de las turbinas hidráulicas, 1858-1914"*.**"International School and Conference on Network Science (NetSci '14)"**

Location: Berkeley (USA)

Date: June 2014

Authors: Sergi Lozano

Oral presentation: *"Spatial Networks in Archaeology: Challenges of Pre- and Protohistoric Case Studies"***"International Workshop - Mediterranean Holocene Climate and Human Societies"**

Location: Messinia, Greece.

Date: 23-25 April 2014

Authors: Colonese, A.C.; Revelles, J.; Zanchetta, G.; Regattiere, E.; Burjachs, F.; Palomo, A.; Piqué, R.; Terradas, X.

Oral presentation: *"Middle Holocene vegetation change and human activity in N Iberian Peninsula: preliminary data from La Draga (Lake Banyoles)"*.**"II Congreso Internacional sobre Educación y Socialización del Patrimonio en el Medio Rural (SOPA2014)"**

Location: Celanova, Ourense

Date: 22-27 Setp. 2014

Authors: Rabuñal, J.R., Martínez, F., Lombera, A., Rodríguez, X.P., Fábregas, R.

Oral presentation: *"Algo máis que pedras no monte. A socialización do Paleolítico nas comarcas orientais de Galicia"*.

**“III Congreso Internacional de Bioética”**

Location: Valencia

Date: 2014

Authors: Úbeda, Y., Llorente, M.

Oral presentation: *“Bioética de Primates. Diagnóstico de trastornos mentales como argumento para una regulación ética y jurídica de su uso con fines comerciales y como mascotas”.*

**“Marie Skłodowska-Curie ESOF Conference”-Transferable skills**

Venue: Copenhagen

Date: 19-20 June 2014

**“Middle Palaeolithic in North-West Europe: multidisciplinary approaches”**

Location: Namur (Belgium)

Date: March 2014

Authors: Blain, H.-A., López-García, J.M., Cordy, J.-M., Pirson, S., Abrams, G., Di Modica, K., Bonjean, D.

Poster: *“New contribution to the study of the small-vertebrate assemblages of Scladina cave (Middle to Late Pleistocene, province of Namur, Belgium)”.*

**“Society for American Archaeology 79th Annual Meeting”**

Location: Austin, (TX, USA)

Date: April 2014

Authors: Ruiz López, J.F.; Hernanz, A.; Viñas, R. y Rubio, A.

Oral presentation: *“Scientific dating program of post-glacial open-air rock art of Iberian Peninsula, 2004-2014”*

**“The African Human Fossil Record”**

Location: Toulouse

Date: 26-27 September 2014

Authors: Rook L., Abbate E., Bondioli L., Bruni P., Candilio F., Carnevale G., Coppa A., Delfino M., Frayer D.W., Genchi F., Ghinassi M., Libsekal Y., Macchiarelli R., Martínez-Navarro B., Medin T., Oms O., Papini M., Pavia M., Sagri M., Scarciglia F., Tesfay D. & Zanolli C.

Oral presentation: *“The Homo-bearing late Early Pleistocene site of Mulhuli-Amo, northern Danakil Depression of Eritrea. Geochronological setting, paleoenvironmental reconstruction and paleoanthropological findings”.*

**“International Conference, Percussive Technology and Human Evolution”**

Venue: University College, London

Date: 18-19 September, 2014

Authors: Barsky, D., Cuartero, F., de Weyer, L., Ivorra, J., Magniez, P., Rios Garaizar, J.



Oral presentation: *"Establishment of an experimental framework for the recognition of technical production and use stigma on basalt"*.

**"VI Workshop on Non-Pollen Palynomorphs"**

Venue: Tallinn University, Estonia

Date: 16-20 June 2014

Authors: Revelles, J.; Burjachs, F.

Poster: *"Minimum count sums for pollen and non-pollen palynomorphs from an archaeological deposit. The case of a lake dwelling site: La Draga (Girona, Spain)"*.

**"VIth International Conference on Mammoths and their Relatives"**

Location: Grevena-Siatista (Greece)

Date: 5-12 May 2014

Authors: Florent Rivals, Dick Mol, Frédéric Lacombat, Adrian Lister, Gina Semprebon

Oral presentation: *"Dietary traits and resource partitioning in mammoth (Mammuthus rumanus and Mammuthus meridionalis) and mastodon (Anancus arvernensis) in the Early Pleistocene of Europe"*.

Authors: Gina Semprebon, Florent Rivals, Julia Fahlke, William Sanders, Adrian Lister

Oral presentation: *"The effect of insular dwarfism on dietary niche occupation in mammoths: what were the pygmy mammoths from Santa Rosa Island of California eating?"*

**"Wenner-Gren Symposium"**

Location: Sintra, Portugal

Date: October 2014

Authors: R. Barkai, A. Gopher, J. Rosell, R. Blasco,

Oral presentation: *"Barbecue at Middle Plietocene Qesem Cave, Israel"*.

**"X International Conference: Culture, Climate and Environment Interactions at Prehistoric Wetland Sites"**

Venue: University of Bern, Switzerland.

Date: 11-14 June 2014

Authors: Revelles, J.; Antolín, F.; Balbo, A.; Burjachs, F.; Colonese, A.; Manganelli, G.; Palomo, A.; Piqué, R.; Terradas.

Oral presentation: *"Climate, resource management and human impact at the early Neolithic lake dwelling site of La Draga (Banyoles, Girona)"*.

**"XI International Ontology Congress"**

Location: San Sebastián

Date: October 2014



Author: Carbonell, E.

Oral presentation: "*Multilevel evolutionary emergency*".

**"XII Annual Meeting of the European Association of Vertebrate Paleontologists"**

Location: Torino (Italy)

Date: June 2014

Authors: Blain, H.-A., López-García, J.M., Cordy, J.-M., Pirson, S., Abrams, G., Di Modica, K., Bonjean, D.

Oral presentation: "*Amphibians and squamate reptiles from the Middle to Late Pleistocene of Belgium.*"

Authors: Blain, H.-A., Delfino, M., Agustí, J., Rook, L., Lordkipanidze, D.

Oral presentation: "*Paleoherpetology and human paleoecology: the case of Dmanisi (Early Pleistocene, Georgia)*".

Authors: Blanco, À., Agustí, J., Blain, H.-A., Sala, R., Toro, I.

Oral presentation: "*The ictiofauna from the Early Pleistocene site of Barranco León (Guadix-Baza Basin, SE Spain)*"

**"XV Congreso Nacional y XII Iberoamericano de la SEE"**

Location: Barcelona

Date: 2014

Authors: Úbeda, Y., Llorente, M.

Oral presentation: "*Evaluación vs. codificación. Valoración de la personalidad en chimpancés de santuario mediante una perspectiva comparada*".

Authors: Laya, D., Llorente, M.

Oral presentation: "*¿Cómo varía el comportamiento de los chimpancés con el paso de las estaciones? Cambios en la actividad y los indicadores de bienestar entre dos periodos estacionales*".





## Attending courses & seminars for H2020 proposals

### **“Cultural Heritage: Recalibrating Relationships”**

Venue: Museum of Graphics. Palazzo Lanfranchi. Pisa, Italia

Date: 04/12/2014 - 05/12/2014

RICHES EU Project: Renewal, Innovation and Change Heritage and European Society

### **“El nuevo paradigma de publicar: Publicar en abierto. La difusión de los outputs científicos en los próximos 10 años”**

Venue: Associació Catalana d'Entitats de Recerca (ACER), Barcelona

Date: 13/11/2014

### **“Horizon 2020 and its Impact on Science Communication and Policy Making in Europe”**

Venue: City2Science, Eurida Research Management, European Association of Science Events (EUSEA) and Wissenschaft im Dialog. Quadriga-Forum, Berlin

Date: 21/01/2014 to 22/01/2014

### **“Horizon 2020. Com afecta als investigadors i als centres de recerca la nova política d'accés obert del programa Horizon 2020”**

Venue: Institució CERCA (Generalitat de Catalunya), Barcelona

Date: 09/10/2014

### **“Horizon 2020. Jornada sobre el programa transversal “Ciencia con y para la Sociedad”**

Venue: Aula Magna, Universitat de Barcelona & Fundación Española para la Ciencia y la Tecnología. Barcelona.

Date: 19/02/2014

### **“How to Write a Competitive Proposal for H2020 by Hyperion”**

Venue: Universitat Rovira i Virgili, Tarragona

Date: 26/11/2014

### **“Jornada Connect-EU” Formación sobre oportunidades en el Horizonte 2020”**

Venue: Connect-EU, ACCIO, AGAUR, CERCA. World Trade Center, Barcelona.

Date: 16/01/2014

### **“Societal Challenge 6. Europe in a Changing World - Inclusive, Innovative and Reflective Societies”**

Venue: Universitat Rovira i Virgili, Tarragona

Date: 17/12/2014

### **“V Workshop en Econosociofísica”**

Venue: IPHES and Departament d'Enginyeria Informàtica i Matemàtiques URV

Date: 29-31 January 2014



## Short-term cooperation with other research centres



Isabel Cáceres at Gona (Ethiopia) / IPHES

### Spain

#### **CENIEH**

City: Burgos

Date: June 2014

Purpose: Study of the faunal remains of unit TE9c of the Sima del Elefante site

#### **Museo Arqueológico Regional de Madrid**

City: Alcalá de Henares

Date: February 2014

Purpose: Study of the faunal remains of the Pinilla del Valle sites.

### International

#### **American Museum of Natural History: Vertebrate Paleontology and Vertebrate Zoology**

City: New York

Date: 26 April to 30 June

Purpose: Study of the age at death of current bison populations compared to those recovered from TD10.2



**Departamento de Antropología. Universidad de Chile**

City: Santiago de Chile

Date: November 2013 – April 2015

Purpose:

- Zooarchaeological analyses on faunal remains from the Tulan-54 site, northern Chile
- Undergraduate lecturer in general archaeology and zooarchaeology
- Drafting of academic articles and papers.

**Departamento de Ciencias de la Tierra. Universidad de Torino**

City: Torino (Italy)

Date: 2 weeks in February 2014

Purpose: Study of the amphibians and reptiles from Dmanisi (Georgia)

**Departamento de Ciencias Humanas. Universidad de Ferrara (Italy)**

City: Torino

Date: 1 week in December 2014

Purpose: Study of the amphibians and reptiles from Pirro Nord (Italy)

**Musée National d'Archeologie**

City: Setif, Algeria

Date: 28 February to 12 March

Purpose: Taphonomic analysis of fossil in the sites of Ain Hanech (Algeria)

**Muséum National d'Histoire Naturelle de Paris**

City: Paris

Date: 3 weeks in November 2014

Purpose: Selection of lithic pieces from the Payre site for functional analyses.

**National Museum of Ethiopia**

City: Addis Ababa, Ethiopia

Date: 29 July to 13 August

Purpose: Taphonomic Analysis of fossil to sites of Gona (Afar Region, Ethiopia).

**Museum für Naturkunde**

City: Berlin (Germany)

Date: 2 weeks in March 2014

Purpose: Osteological study of the genus *Pelophylax*



## Participation in the “UISPP: Mundial Congress of Prehistoric and Protohistoric Sciences 2014”

Location: Burgos

Date: 1-7 September 2014

General Secretary: Eudald Carbonell

Scientific Vice Secretary: Robert Sala

Organizer: Fundación Atapuerca



UISPP 2014 – Universidad de Burgos / IPHES



## Presentation

From 1 to 7 September, the city of Burgos hosted the 17<sup>th</sup> World Conference on Prehistory and Protohistory of the International Union of Prehistoric and Protohistoric Sciences (UISPP), an association that brings together thousands of scientists, researchers, and academics involved in these fields all over the world. The congress, organised on this occasion by the Atapuerca Foundation, included 115 scientific sessions addressing topics in prehistory and protohistory, during which 1,653 reports were given by more than 3,032 different authors from five different continents.

In this context, the IPHES participated in the organisation of sixteen sessions which collectively accounted for a total of 265 presentations, of which 32 were posters and the remainder

oral presentations, representing more than 16.5% of the total material presented at the congress. Some of this work focused on current research being conducted by archaeopalaeontological teams led by members of this centre, as in the case of Atapuerca and Orce. In general, however, our work was representative of the wide array of topics addressed at the congress, as the researchers that make up the IPHES have made it one of the most widely published centres in its field, in addition to conducting research into all of the Quaternary periods and many other topics of interest. Approximately 40 of the 60 members of the Institute were in attendance, including researchers and technical staff. The latter also played an important role in the organisation of the UISPP and related publications.

## Books

Two books were presented during the congress: *Pleistocene and Holocene hunter-gatherers in Iberia and the Gibraltar Strait: the current archaeological record* (Robert Sala Ramos, editor; Eudald Carbonell, José María Bermúdez de Castro and Juan Luis Arsuaga, coordinators), which involved the participation of 367 authors; and *Protohistory of the Iberian Peninsula: from the Neolithic to Romanisation* (Martín Almagro Gorbea, editor), written by a group of 17 authors. These have been published in Spanish and English, as well as via electronic media (in both languages) in EPub and MOBI formats.

The publications (co-published by the University of Burgos and the Atapuerca Foundation) present the current state of Spanish scientific research on prehistory and protohistory. The goal is for

international scientists to have access to more information about Spanish prehistory and protohistory. They include updated information about major Spanish sites and deposits, some of which are currently undergoing excavation, and others which were excavated in the past but still provide relevant information. Among these sites, many are either directed, co-directed, or involve the participation of IPHES members, including Gibraltar, Valdavara, Cova Eirós, Monforte de Lemos, Cova de les Llenes, Abric Romaní, La Cansaladeta, La Cativera, Cinglera del Capelló, Barranc de la Boella, Molí del Salt, Vallparadís, Cova de les Teixoneres, Cova del Toll, Casa Corona, Tossal de la Font, Orce, Atapuerca, Cueva de Maltravieso, Cueva de Santa Ana, Cueva de El Conejar, Vendimia, El Millar, Roca dels Moros del Cogul, and la Valltorta.



## Session organisation

### **Archaeology of fuels: social and environmental factors in behavioural strategies of multi-resource management**

Ethel Allué, Llorenç Picornell, Marie-Agnés Coury

### **Biochronology, biostratigraphy and paleoecology of the European Quaternary**

Cuenca-Bescós, G., López-García J.M., Blain, H.A.

### **Chronostratigraphic data about the Middle to Upper Palaeolithic cultural change in Western Europe**

Vaquero, M.

### **Paleoanthropological debates on Human Evolution**

J Martínez, I., Quam, R.; Lorenzo, C.

### **Pleistocene Human dispersals: climate, ecology and social behaviour**

Lanata, J.L., Martínez-Navarro, B., Lozano, S.

### **Prehistoric Archaeology of China: Technology, Cognition, Culture and Environment**

Yamei Hou, Marcel Otte, Ethel Allué

### **Recent Trends and Aspects of Use-wear Analysis and their contribution to the Modernization of Archaeology.**

Ollé, A., Ibáñez, J.J., Evans, A., Longo, L.

### **Shepherds and caves.**

Vergès, J.M., Allué, E., Fontanals, M.

### **Technological change during the Lower-Middle Pleistocene transition in Europe.**

Carbonell, E., Mosquera, M., Ollé, A., Barsky, D., Rodríguez, X.P., Sala, R.

### **The Early and Middle Pleistocene succession in the Guadix-Baza Basin (Andalusia, southern Spain): geology, paleontology, archeology. Commission on First humans in Europe**

Sala, R., Martínez-Navarro, B., Agustí, J., Barsky, D., Toro-Moyano, I.

### **The first peopling of Europe**

Carbonell, E., Mosquera, M., Ollé, A., Barsky, D., Rodríguez, X.P., Sala, R.

### **The humankind and the avian world: archaeological and zooarchaeological evidence for inferring behavioural evolutionary signatures**

Blasco, R., Peresani, M.

### **Time for the tide: new perspectives in intertidal resource exploitation during the Paleolithic and Mesolithic in the Mediterranean and Atlantic regions.**

Fernández-López de Pablo, J., Cuenca, D., Gutiérrez-Zugasti, I., Colonese, A.

### **What's happening now in Atapuerca**

Rosell, J., Benito, A., Rodríguez, J.



## Sessions



Session Paleolithic Technology and adaptation in Asia / IPHES

### Session A2a: The first peopling of Europe

#### Oral contributions

Authors: Sala, R.; Barsky, D.; Menéndez, L.; Sanchez, L.; Cánovas, I.; Tarrino, A.; Toro, I.

Title: Barranco León and Fuente Nueva 3: at the core of hominin technical innovation in First Europe.

Authors: Bourguignon, L., Crochet, J.Y., Capdevila, R., Ivorra, J., Antoine, P.O., Agustí, J., Barsky, D., Blain, H.A., Boulbes, N., Bruxelles, L., Claude, J., Cochard, D., Filoux, A., Firmat, C., Lozano-Fernández, I., Magniez, P., Pelletier, M., Rios, J., Testu, A., Valensi, P., de Weyer, L.

Title: The Early Pleistocene site of Bois-de-Riquet (Lézignan-la-Cèbe, Hérault, France): stratigraphy, dating, fauna and lithics.

### Session A2b: Technological change during the Lower-Middle Pleistocene transition in Europe

#### Oral contributions

Authors: Carbonell, E.; Barsky, D., Sala, R., Celiberti, V.

Title: Structural continuity and technological change in Lower Pleistocene toolkits.

Authors: Mosquera, M.; Ollé, A.; Saladié, P.; Cáceres, I.; Huguet, R.; Rosas, A.; Villalain, J.J.; Carrancho, A.; Boursès, D.; Braucher, R.; Vallverdú, J.



Title: The Early Acheulean site of La Boella (Tarragona, Spain).

Authors: Ollé, A.; Vergès, J.M.; Rodríguez, X.P.; Cáceres, I.; Bennàsar, M.; López-García, J.M.; Bañuls-Cardona, S.; Burjachs, F.; Expósito, I.; Falguères, C.; Arnold, L.; Demuro, M.; Voinchet, P.; López-Polín, L.; López-Ortega, E.; Vallverdú, J.

Title: The Middle Pleistocene site of La Cansaladeta (Tarragona, Spain): stratigraphic and archaeological succession.

## **Session A2c: What's happening now in Atapuerca? Latest research at the Sierra de Atapuerca**

### **Oral contributions**

Authors: Benit-Calvo, A., Ortega, A.I., Campaña, I., González, L., López, D., García Luis, M., Pérez-González, A., Bermúdez de Castro, J.M., Carbonell, E.

Title: Palaeogeographical reconstruction of the Pleistocene sites in the Sierra de Atapuerca (Burgos, Spain).

Authors: Bermejo, L., Ortega, A. I., Guérin R., Benito-Calvo, A, Pérez-González, A., Parés, J.M., Aracil, E., Maruri, U., Pérez, R., Cáceres, I., Huguet, R., Ollé, A., Rosell, J., Saladié, P., Vallverdú, J., Martín, M.A., Bermúdez de Castro, J.M., Carbonell, E.  
Title: Electrical Resistivity Tomography (ERT) for identifying Torcas area passages connecting Gran Dolina, Galería Complex and Sima del Elefante sites (Sierra de Atapuerca, Burgos, Spain).

Authors: Vallverdú, J., Carrancho, Á., Villalaín, J.J., Ortega, A.I.  
Title: Soil-stratigraphy of the Middle Pleistocene sedimentary units in the Elefante, Galería and Gran Dolina cave entrance deposits (Sierra de Atapuerca, Spain).

Authors: Rodríguez, X.P., de Lombera-Hermida, A., Bargalló, A., Terradillos-Bernal, M., Huguet, R., Vallverdú, J., García-Antón, M.D., Mosquera, M., Ollé, A., Sala, R., Carbonell, E.

Title: The Lower and Middle Pleistocene lithic record of Sima del Elefante (Sierra de Atapuerca, Burgos, Spain).

Authors: Huguet R., Vallverdú J., Rodríguez X.P., Canals A., Terradillos M., Bargalló A., de Lombera-Hermida A., Menéndez L., Modesto-Mata M., van der Made J., Soto M., Blain H.-A., García N., Cuenca-Bescós G., Gómez-Merino G., Pérez R., Bermúdez de Castro J.M., Carbonell E.

Title: Accumulation events at TE9C (Sima del Elefante site, Sierra de Atapuerca, Spain).

Autors: Van der Made, J., Rosell, J., Blasco, R.

Title: The ungulates from Gran Dolina Level TD8 at Atapuerca: Evolution, Biostratigraphy, Biogeography.

Authors: Ollé, A., Saladié, P., Rodríguez, J., Mosquera, M., Rodríguez-Hidalgo, A., de Lombera-Hermida, A., Campaña, I., Vallverdú, J., Pérez-González, A., Blain, H.-A., López-García, J. M., Cuenca-Bescós, G., Expósito, I., Burjachs, F., Van der Made, J., García, N., Cáceres, I., Mateos, A., Rodríguez, X. P., García-Medrano, P., García-Antón, M. D., López, E., Pedergrnana, A., Rosell, J., Blasco, R., Falguères, C., Moreno, D., Torres, T., Ortiz, J. E., Ortega, A. I., Benito-Calvo, A., Canals, A., Obregón, R., Bermúdez de Castro, J. M., Carbonell, E.





Title: Tracing environmental and cultural changes throughout the Gran Dolina TD10 Middle Pleistocene sequence (Atapuerca, Burgos, Spain).

Authors: García, N., Feranec, R.S., Saladié, P., Rodríguez-Hidalgo, A., Ollé, A., Carbonell, E., Bermúdez de Castro, J.M.

Title: Isotopic analysis of Middle Pleistocene fauna from Gran Dolina (Sierra de Atapuerca, Spain) and their implications for hominin paleoecology.

Authors: Pedergrnana, A., García-Antón, M.D.

Title: The facies Utrillas quartzite variety: from a petrographic characterization to a functional analysis design. The example of Gran Dolina site, TD10 level (Sierra de Atapuerca, Burgos, Spain).

Authors: López-Ortega, E., Bargalló, A., de Lombera-Hermida, A., Mosquera, M., Ollé, A., Rodríguez, X.P.

Title: Quartz and quartzite refits of Gran Dolina site (Sierra de Atapuerca, Burgos). Connecting the lithic artefacts in TD10.1 level.

Authors: Rodríguez-Hidalgo, A., Saladié, P., Ollé, A., Carbonell, E.

Title: Big game hunting behavior at Atapuerca: 400-kyr-old bison bonebed at the Gran Dolina TD10.2 site.

Authors: Poza-Rey, E., Lozano, M., Arsuaga, J.L.

Title: Brain asymmetries and handedness in the specimens from Sima de los Huesos site (Atapuerca, Spain).

Authors: Made, J., Cáceres, I., Ortega, A.I.

Title: The latest *Megaceroides solilhacus* from Europe at Galería, Atapuerca?

Authors: Ortega, A.I., Cáceres, I., García-Medrano, P., Pérez-González, A., Vallverdú, J.; Pérez, R., Benito-Calvo, A., Campaña, I., Ollé, A., Bermejo, L., Expósito, I., Burjachs, F., Marín, J., Santander, B., Bermúdez de Castro, J.M., Carbonell, E.

Title: Galería Complex site (Sierra de Atapuerca, Burgos, Spain): updating the Middle Pleistocene occupations.

Authors: García-Medrano, P., Cáceres, I., Ollé, A., Carbonell, E.

Title: The emergence and development of the Acheulean in Atapuerca: The Galería site (c. 500-250ka).

## Posters

Authors: Expósito, I.; Burjachs, F.; Allué, E.

Title: Filling the gaps: the Non Pollen Palynomorphs contribution to the knowledge of Sierra de Atapuerca caves local environment during the Pleistocene.

Authors: Rofes J., Cuenca-Bescós G., Bennásar M., Blain H.A.

Title: First record of *Sorex runtonensis-subaraneus* (Mammalia; Soricidae) group in the Iberian Peninsula.

Autors: Cuenca-Bescós, G., Rosell, J., Morcillo-Amo, Á., Galindo-Pellicena, M. A., Santos, H.

Title: The fossil beavers from the Pleistocene localities of Atapuerca.



Authors: Campaña, I., Pérez, A., Benito, A., Bermúdez de Castro, J.M., Carbonell, E.

Title: Sedimentary analyses and revised sedimentary facies of Gran Dolina site (Sierra de Atapuerca, Burgos).

Authors: López-Polín, L., Bermúdez de Castro, J.M., Carbonell, E.

Title: The preparation and conservation treatments of the Homo antecessor fossils.

Authors: Modesto-Mata, M., Bermúdez de Castro, J.M., Dean, C., Martín-Torres, M., Rodríguez-Hidalgo, A., Marín, J., Canals, A., Vergès, J. M., Lozano, M.

Title: Perikymata numbers and lateral enamel formation times in the incisors of three archaeological modern human populations from Maltravieso Cave (Cáceres) and Mirador Cave (Burgos).

Authors: Terradillos-Bernal, M., Rodríguez, X.P.

Title: Another way to analyze the raw material in Gran Dolina and Galería (Sierra de Atapuerca, Burgos, Spain) from experimental archaeology.

Authors: Terradillos-Bernal, M., Rodríguez, X.P.

Title: A technological analysis of the cutting edge and weight of artefacts. The case of the Lower and Middle Palaeolithic of the Sierra de Atapuerca (Burgos, Spain).

## **Session A2e: The early and middle Pleistocene succession in the Guadix-Baza Basin (Andalusia, Southern Spain): geology, paleontology and archaeology.**

### **Oral contributions**

Authors: Agustí, J., Blain, H.-A., Lozano-Fernández, I., Piñero, P., Oms, O., Furió, M., Blanco, A., López-García, J.M., Sala, R.

Title: Chronological and environmental context of the first hominin dispersal into Western Europe: the case of Barranco León

Authors: Martínez-Navarro, B., Ros-Montoya, S., Espigares, M.P., Madurell, J., Medin, T., Palmqvist, P.

Title: The large mammals assemblages from the Late Villafranchian sites of Orce (Venta Micena, Fuente Nueva-3, and Barranco León): human and faunal dispersals into Europe.

Authors: Palmqvist, P., Ros-Montoya, S., Espigares, M.P., Madurell, J., Figueirido, B., García, J.M., Medin, T., Martínez-Navarro, B.

Title: Paleoecological inferences on the large mammals from the Late Villafranchian site of Venta Micena (Orce, Guadix-Baza Basin): insights on the environmental context of the first human dispersal in Europe.

Authors: Barsky, D., Sala, R., Menéndez, L., Toro, I.

Title: The lithic assemblages from Barranco León and Fuente Nueva 3: a new view of old stones.

Authors: Cánovas, I., Sánchez, L., Tarriño, A., Menéndez, L., Sala, R., Barsky, D., Toro, I.

Title: Raw materials and technological analysis of the Barranco León lithic assemblage, Orce (Andalusia, Spain).



Authors: Espigares, M.P., Palmqvist, P. Ros-Montoya, S., Madurell, J. Medin, T., Martínez-Navarro, B.  
 Title: Taphonomic analysis of patterns of anthropic and carnivoran activity in the Early Pleistocene sites of Orce.

Authors: Menéndez, L., Canals, A., Sala, R., Guerra, D., Martínez-Navarro, B., Espigares, M.P., Ros-Montoya, S., Barsky, D, Toro, I.  
 Title: Spatial analysis and its occupational implications at Barranco león and Fuente Nueva 3 (Orce, Andalusia, Spain).

Authors: Gómez- Merino, G., Lorenzo, C., Solé, À., Ros-Montoya, S., Espigares, M.P., Sala R., Martínez-Navarro, B.  
 Title: Mammal fossil remains from early Pleistocene sites of Orce (Granada, Spain): preservation and conservation.

## **Session A2f: Pleistocene human dispersals: climate, ecology and social behavior**

### **Oral contributions**

Authors: Medin, T., Martínez-Navarro, B, Rivals, F., Rook, L.  
 Title: Early pleistocene ecological relations among Omnivorous species and large carinivore taxa

Authors: Martínez-Navarro, B., Madurell-Malapeira, J., Ros-Montoya, S., Espigares, M.P., Medin, T., Palmqvist, P.  
 Title: Paralellism of immigrant large mammals with oldowan and acheulian cultures into Europe.

Authors: Madurell-Malapeira, J., Alba D.M., Espigares M.P., Vinuesa, V., Martínez-Navarro, B., Moyà-Solà, S.  
 Title: Were large carnivorans and great climatic shifts limiting factors for hominin dispersals? Evidence of the activity of *Pachycrocuta brevirostris* during the Mid Pleistocene revolution in the Vallparadís Section (Valles-Penedes Basin, Iberian Peninsula).

Authors: Viñas, R., Arroyo, J., Rivera, Irán I., Rodríguez, X.P., Rubio, A., Eudave, I. N., Solís, Ó.  
 Title: Recent archaeo-paleontological findings from Barranca del Muerto site, Santiago Chazumba, Oaxaca, México.

Authors: Chichkoyan, K.V., Martínez-Navarro, B., Belinchón, M., Lanata, J.L.  
 Title: Early Homo Sapiens, and the native fauna extinction in the South America southern cone

### **Posters**

Authors: Mtimef M.S., Karoui-Yaakoub N., López-García J.M., Blain H.-A., Agustí J., Amri L., Martínez-Navarro B.  
 Title: The Early Middle Pleistocene microvertebrate assemblage from Wadi Sarrat (Tunisia).



**Session A6b: The management of resources and territories in the Pyrenees from the earliest human occupation to the end of the Protohistory. A behavioral perspective**

**Oral contributions**

Authors: Maroto, J., Ortega, D., Albizuri, S., Allué, E., Raimó, S., Rivals, F.  
 Title: Les occupations humaines dans la grotte des Ermitons (massif de l'Alta Garrotxa, Pyrénées Méditerranéennes) au long de la Préhistoire

**Session A9d: The Human settlement of Western Europe during the last glacial maximum**

**Posters**

Authors: López-García J.M., Bañuls S., Blain H.-A., Lozano-Fernández I., Cuenca-Bescós, G.  
 Title: The Last Glacial Maximum characterized by the small-mammal assemblages in Southwestern Europe

**Session A13: Quality Management of Cultural Heritage: problems and good practices**

**Oral contributions**

Author: Bellmunt, C. S.  
 Title: Communication strategies observed in Portuguese press to save rock art of Vila Nova de Foz Côa (Portugal).

**Session A17a: Recent Trends and Aspects of Use-wear Analysis and their contributing to the Modernization of Archaeology**

**Oral contributions**

Authors: Perdergnana, A., Ollé, A.  
 Title: Monitoring and interpreting the use-wear formation on experimental quartzite tools.

Authors: Agarwal, N., Ollé, A.  
 Title: Microwear on experimental granite tools.

Authors: Vergès, J.M., Morales, J.I.  
 Title: Documenting and analyzing hafting-traces using gigapixel images. A case-study of la Cativera (Tarragone, Spain)

Authors: Pedergrnana, A., Ollé, A., Asryan, L.  
 Title: A proposal for the morphological and chemical characterizations of experimental micro-residues on stone tools based on an integrated approach including SEM and Light Microscopy.



**Session A17c: Microscopic determination of hafting technology: use-wear and residues**

**Posters**

Authors: Ollé, A., Asryan, L.; Bazgir, B.; Fernández-Marchena, J.L.; Hardy, K.; Buckley, S.; Loza, P.; Marro, M.; Pederagnana, A.  
 Title: Creating a reference collection of hafting adhesives to interpret some 'black spot' residues on lithic artefacts.

**Session A18a: Redefining the Postpaleolithic rock art in the world: Groups, diffusion areas, chronology and last methodological contributions**

**Oral contributions**

Authors: Viñas, R., Rubio, A., Ruiz, J. F., Vallverdú, J., Rowe, M., Santos, N.  
 Title: Chronostratigraphic results of analyzes on rocky supports and crusts of the Serra de la Pietat rock art set (Ulldecona, Tarragona, Spain).

**Session A20: The intellectual and spiritual expressions of non-literate peoples**

**Oral contributions**

Authors: Rubio, A., Viñas, R., Quijada, C., Arroyo J., Menéndez, B., Hernanz, A., Iriarte, M., Santos, N.  
 Title: The Rock Art of Saracachi River Basin: The El Arco and Blanca de la Pulsera caves, Sonora (México).

**Posters**

Authors: Viñas, R., Rubio, A., Quijada, C., Arroyo J., Santos, N.  
 Title: A ritual space with paintings and engravings in the La Calera Rock Art set, Sonora (México).

Authors: Menéndez, B., Viñas, R., Benavente, M.E., Terrazas, A., Rubio, A.  
 Title: The set of el arroyo de Las Flechas Rock Art engravings: Symbolic associations in the Sierra El Álamo, Caborca (Sonora, Mexico).

**Session A21a: Neanderthals on their own terms: new perspectives for the study of Middle Palolithic behavior**

**Oral contributions**

Autors: Modolo, M., Rosell, J.  
 Title: Reconstructing occupational models: bone refits in Level I of Abric Romaní.

Authors: Courty, M.-A., Allué, E., Blasco, R., Francine, D., Girard, M., Hardy, M., Moncel, M.-H., Fernández-Peris, J., Rigaud, J.-Ph.  
 Title: Long mature carbonaceous material technology viewed in Neanderthal contexts



Authors: Rosell, J., Blasco, R., Rivals, F., Chacón, G., Blain, H.-A., López-García, J. M., Picin, A., Camarós, E., Rufà, A., Sánchez-Hernández, C., Arilla, M., Gómez de Soler, B., Bustos, G.

Title: New interdisciplinary data to understand the short-term occupations at Teixoneres Cave (Moià, Barcelona, Spain).

Authors: Chacón, M., Vaquero, M., Vallverdú, J., Gómez de Soler, B., Marín, J., Picin, A., Romagnoli, F., Solé, A., Allué, E., Bargalló, A., Bartrolí, R., Blain, H.A., Burjachs, F., Cáceres, I., Campeny, G., Expósito, I., Fernández, M., Gabucio, J., López-García, J.M., Rivals, F., Rosell, J., Saladié, P. Carbonell, E.

Title: Some clues to Neanderthal behavior from a high-resolution residential context: level M of Abric Romani (Capellades, Spain)

Authors: Asryan, L., Ollé, A., Moloney, N.

Title: Lithic assemblages of Azokh Cave (Nagorno Karabagh, Lesser Caucasus).

### **Session A21d: Chronostratigraphic data about the Middle to Upper Palaeolithic cultural change in Western Europe**

#### **Oral contributions**

Authors: de Lombera, A.; Rodríguez, X.P.; Cunha, P.; Pérez-Alberti; A.; Ameijenda, A.; Grandal, A.; Fábregas, R.

Title: Neanderthals and sapiens in the Finisterrae. State of the art on the Middle to Upper Paleolithic transition in NW Iberia.

Authors: Maroto, J., Arizabalaga, A., Baena, J., Baquedano, E., Jorda, J., Julia, R., Montes, R., Rasines, P., Vaquero, M.

Title: Chronostratigraphic data about the Middle to Upper Palaeolithic cultural change in Western Europe.

### **Session A25e: Dynamics of human and cultural dispersals during the Neolithic transition in Europe: Complex Systems and Prehistory**

#### **Oral contributions**

Authors: Sergi Lozano, Bernabeu, J., Pardo, S., Orozco, T., Garcia, O.

Title: Iberian Neolithic Networks

### **Session A27c: The long road to the final transition. Regional dynamics in the western Mediterranean between the end of the LGM and the 8.2 event**

#### **Oral contributions**

Authors: Morales, J.I., Román, D., Cebrià, A., Garcia-Argüelles, P., Nadal, J., Soto, M., Vergès, J.M., Fullola, J.M.

Title: Technical dynamics and technological organization at the end of the Upper Paleolithic of the NE Iberia

Authors: Fernández-López de Pablo, J., Gómez-Puche, M., Ferrer, C.



Title: Early and Middle Holocene open-air occupations in the Upper Vinalopó valley (SE, Spain): chronological framework, subsistence and land use patterns.

### **Session A28: Prehistoric Archaeology of China: Technology, Cognition, Culture and Environment**

#### **Oral contributions**

Authors: Allué, E., Asryan, L., Carbonell, E., Hou, Y., de Lombera, A., Mosquera, M., Ollé, A., Picin, A., Rodríguez, X.P., Solé, A., Yang, L., Yue, H.

Title: A Spanish Chinese collaboration project for the study of the Asian Palaeolithic.

### **Session B2: Biochronology, biostratigraphy and palaeoecology of the European Quaternary (B2PQUE)**

#### **Oral contributions**

Authors: Agustí, J., Lozano-Fernández, I., Piñero, P., Furió, M.

Title: Pleistocene biostratigraphy of Western Europe based on the Guadix-Baza rodent succession

Authors: Blain H.-A.

Title: Geographical and chronological pattern of the herpetofaunal Pleistocene extinctions in the Iberian Peninsula: a biochronological tool?

Authors: Cuenca-Bescós G., Blain H.-A., López-García J.M., Lozano-Fernández I., Rofes J.

Title: Biostratigraphy of the palaeoanthropological Atapuerca cave sites (Pleistocene, Spain).

Authors: Laplana C., Sevilla P., Blain H.-A., Arriaza M.C., Arsuaga J.L., Baquedano E., Pérez-González, A.

Title: Cold-climate small mammal assemblages in the Late Pleistocene of central Iberia: new data from the Cueva de la Buena Pinta site (Pinilla del Valle, Madrid Region, Spain)

#### **Posters**

Authors: Bennàsar, M., Cáceres, I., Cuenca-Bescós, G.

Title: The hominids environment of Sima del Elefante (Sierra de Atapuerca, Spain) through the taphonomy of small mammals.

Authors: Bennàsar, M., Cáceres, I., Cuenca-Bescós, G.

Title: Paleoeological and microenvironmental aspects of TD5 and TD6 Levels from Gran Dolina Site (Early Pleistocene, Sierra de Atapuerca, Burgos, Spain).

Authors: Lozano-Fernández I., Blain H.-A., López-García J.M., Cuenca-Bescós G., Agustí J.

Title: Evolutionary trends as a chronological tool: the case of *Mimomys savini* (Vole) in the Iberian Peninsula during the Early Pleistocene.



**Session B5: New approaches to the study of Quartz lithic industries****Oral contributions**

Authors: Márquez, B., Mosquera, M., Baquedano, E., Pérez, A., Arsuaga, J.L., Panera, J., Espinosa, J.A., Gómez, J.

Title: Quartz Mousterian technology in Navalmaíllo Rockshelter (Pinilla del Valle, Madrid, Spain). Preliminary results of the technological and use-wear analysis of quartz implements.

Authors: De Lombera, A., Rodríguez, X.P., Fábregas, R.

Title: Two actors, one scenario: the management of quartz and quartzite resources along the Upper Pleistocene sequence of Cova Eirós.

Authors: Ollé, A., Pedergrana, A., Martín, S., Fernández-Marchena, J., Borel, A., Aranda, V.

Title: Wear features on quartz, rock crystal and quartzite: a comparative study combining Optical Light and Scanning Electron Microscopy.

**Session B8: Hominid-bird interactions in Prehistory. The humankind and the avian world: archaeological and zooarchaeological evidence for inferring behavioural evolutionary signatures****Oral contributions**

Authors: Pedergrana, A., Blasco, R.

Title: An attempt to characterize lithic use-wear and residues related to the avifaunal resources exploitation

Authors: Rosell, J., Blasco, R., Sánchez Marco, A., Finlayson, S., Finlayson, G., Negro, J.J., Giles Pacheco, F., Rodríguez-Vidal, J., Finlayson, C.

Title: Pigeons and choughs, a usual recourse for the Neanderthals in Gibraltar

Authors: Rufà, A., Blasco, R., Moncel, M.-H., Roger, T.

Title: Who is bringing birds? An approach from the Middle and early Late Pleistocene accumulations from Payre and Abri des Pêcheurs (Ardèche, France)

**Posters**

Authors: Blasco, R., Fernández Peris, J.

Title: Human consumption of birds at Bolomor Cave (Valencia, Spain, MIS 9-5)

Authors: Rodríguez-Hidalgo, A, Saladié, P., Marín, J., Canals, A.

Title: Bird-bones modifications conducted by iberian lynx: taphonomic analysis of noningested red partridge remains.





**Session B10: The interglacial Holsteinian Eldorado and the onset of the Middle Palaeolithic (400-300 ka)**

**Oral contributions**

Authors: Lombera-Hermida, A., Ollé, A., Mosquera, M., Rodríguez, X.P., García-Medrano, P., Terradillos, M., Pederghana, A., Rodríguez-Hidalgo, A., Saladié, P., Carbonell, E.

Title: The Mode 2 to Mode 3 transition in Atapuerca. The lithic assemblage of TD10.1 from Gran Dolina site.

**Session B13: Mathematical approaches for the study of Human-Fauna interactions in the Pleistocene**

**Oral contributions**

Authors: Sergi Lozano

Title: Exploring paleo food-webs in the European Early and Middle Pleistocene: a network approach

**Session B14: An Archaeology of fuels: social and environmental factors in behavioural strategies of multi-resource management**

**Posters**

Authors: Allué, E.

Title: Perspectives for the study of fuel among early Paleolithic Hunter-gatherer? based on Examples from the NE of Iberia

Authors: Chacón, M.G., Aouraghe, H., Allué, E., Amrani, S., Bartrolí, R., Canals, A., El Hammouti, K., El Harradji, A., Expósito, I., Gallet, X., Haddoumi, H., Lebon, M., Sala, R.

Title: The role of two 4,000 cal BP combustion structures at Eastern Morocco: the example of Oued Za hearths (Guéfait, Morocco).

**Session B17: Shepherds and caves**

**Oral contributions**

Authors: Euba, I., Allué, E., Burjachs, F.

Title: The use of wood fodder at El Mirador Cave (Atapuerca, Burgos). A study based on anthracology and dendrology.

Authors: Forgia, V., Vergès, J.M., Ollé, A., Di Simone, G.

Title: Pastoral paths and the herding world: the routes of the shepherds from Antiquity to Modern Age across the mountains of Sicily.

Authors: Carrancho, Á., Vergès, J.M., Straus, L., González, M.R., Carretero, J.M.

Title: Applications of archaeomagnetism to the study of burnt anthropogenic cave sediments



Authors: Vergès, J.M., Allué, E., Burjachs, F., Cabanes, D., Carrancho, Á., Expósito, I., Martín, P., Morales, J.I., Vallverdú, J., Viñas, R.  
 Title: An experimental program for the obtaining of data from herd folds for the study of prehistoric livestock practices: the case of the corral Mas del Pepet (Montblanc, Tarragona).

### Posters

Authors: Oms- Arias, X., Marsal, R., Moral, S., Fontanals, M., Vergès, J.M.  
 Title: Vessels of the shepherds: the Neolithic pottery sequence at El Mirador Cave (Sierra de Atapuerca, Spain) C. 6300 - 4760 Bp

Authors: Allué, E., Euba, I., Rodríguez, A.  
 Title: Landscapes and plant uses during the Neolithic and Bronze age based on plant macroremains from El Mirador (Atapuerca, Burgos).

Authors: Expósito, I., Cabanes, D., Burjachs, F., Alonso-Eguíluz, M.  
 Title: El Mirador Cave (Sierra de Atapuerca, Burgos, Spain): the vegetal microremains.

Authors: Vergès, J.M., Allué, E., Carrancho, A., Euba, I., Expósito, I., Fontanals, M., Lozano, M., Marsal, R., Martín, P., Morales, J.I., Oms, X., Rodríguez, A.  
 Title: El Mirador Cave (Sierra de Atapuerca, Burgos, Spain): a whole perspective.

Authors: Forgia, V., Martín P., López-García, J.M., Vergès, J.M., Allué, E., Angelucci, D.E., Arnone, M., Blain, H.-A., Burjachs, F., Expósito, I., Messina, A., Picornell, Ll., Rodríguez, A., Scopelliti, G., Sineo, L., Virruso, G., Alessi, E., Di Simeone, G., Morales, J.I., Pagano, E., Belvedere, O.  
 Title: Origin and development of pastoralism in the Mediterranean area: the case of Vallone Inferno, Scillato (Palermo), Sicily.

Authors: Vergès, J.M., Morales, J.I.  
 Title: Polished walls: indirect evidences of use of cavities and stone constructions as livestock-folds.

Authors: Martín, P., Vergès, J.M.  
 Title: Bone alterations in fumiers: experimental approach and archaeological use.

Authors: Lozano, M., Ceperuelo, D., Morales, J.I., Fontanals, M., Vergès, J.M.  
 Title: Some outlines about the human remains of El Mirador

### Session B18: State of the art of the multidisciplinary research at Middle Pleistocene Qesem Cave, Israel

#### Oral contributions

Authors: Blasco, R., Rosell, J., Sañudo, P., Gopher, A., Barkai, R.  
 Title: What happens around a fire: faunal processing sequences and spatial distribution at Qesem Cave (300 kya), Israel



**Session B25: Looking at the sky, walking on the earth. Climatic changes and historical evolution in the Mesolithic and Neolithic of Western Europe**

**Oral contributions**

Authors: Jones, S.E., Burjachs, F., Fernández-López de Pablo, J.  
Title: Mesolithic to Bronze Age landscape signatures during periods of abrupt climate change: current work from the Upper Vinalopó Valley (SE Spain) lake deposits.

Authors: Cho, S., Iriarte, E., Revelles, J., Burjachs, F., Piqué, R., Palomo, A., Terradas, X., Peña-Chocarro, L.  
Title: Palaeoenvironmental and anthropic activity indicators during the Neolithic in the sedimentary record of lake Banyoles (Girona, NE Spain).

Authors: Iriarte, E., Cho, S., Revelles, J., Burjachs, F., Piqué, R., Palomo, A., Terradas, X.; Peña-Chocarro, L.  
Title: Palaeoenvironments and site formation processes at the Neolithic lakeside settlement of La Draga, Banyoles, Northeastern Spain.

Authors: Revelles, J., Burjachs, F., Cho, S., Iriarte, E., Palomo, A., Piqué, R., Terradas, X., Peña-Chocarro, L.  
Title: Mid-Holocene vegetation history and Neolithic land-use in Lake Banyoles.

**Session A26- Southeast Asia: Human Evolution, Dispersals and Adaptation**

**Oral contributions**

Authors: Jones, S., Janowski, M.  
Title: The Cultural Antiquity of Rainforests: A 6000 years environmental and archaeological record from the interior highlands of Sarawak, Malaysian Borneo

**Session B35: Paleolithic Archaeozoology Advances on hunter-gatherer's subsistence**

**Oral contributions**

Authors: Pineda, A., Saladié, P., Huguet, R., Cáceres, I., Rosas, A., Vallverdú, J.  
Title: Carcass consumption and carnivore competition during the Lower Pleistocene at the la Mina site (Barranc de la Boella, Tarragona, Spain).

Authors: Marín, J. Saladié, P.; Rodríguez-Hidalgo, A.  
Title: Transport strategies of ungulates carcasses during the middle Paleolithic: the level M of Abric Romani (Capellades, Barcelona).

Authors: Maroto, J., Albizuri, S., Rivals, F., Allue, E., Vaquero, M., Roque, C., Agusti, B., Ruffi, I., Ventura, H.  
Title: Archaeozoology in Upper Palaeolithic bone assemblages. A tool for interpreting the Cau del Roure (Serinya, NE Iberian Peninsula).



**Session B37: Lithics, Evolution, Science**  
**Oral contributions**

Authors: Romagnoli, F., Chacón, M.G., Bargalló, A., Gómez de Soler, B., Picin, A., Vaquero, M.

Title: Lithic analysis and human behaviour during the Middle Palaeolithic. Analysing expediency through refits at Abric Romaní (Capellades, Spain).

**Session B38: Advances in the dating of human dispersals, interactions and extinctions in the Palaeolithic**

**Posters**

Authors: Álvarez, C., Parés, J.M., Carrancho, Á., Villalain, J.J., Aouraghe, H., Haddoumi, H., Hammouti, K., El Harradji, A., Sala, R., Chacón, G.M.

Title: Paleomagnetic analyses of the northern margin of Aïn Béni Mathar-Guéfait basin (Eastern Morocco).

**Session B39: Paleoanthropological debates on Human Evolution**

**Oral contributions**

Authors: Lozano, M., Bermúdez de Castro, J.M., Arsuaga, J.L., Carbonell, E.

Title: One million years of cultural dental wear at Atapuerca sites.

Authors: Pablos, A., Martínez, I., Lorenzo, C., Gracia-Téllez, A., Carretero, J.M. & Arsuaga, J.L.

Title: The morphology of the foot in the Middle Pleistocene population of Sima de los Huesos

Authors: Gómez-Merino, G., Aparicio, J., Subirà, E., Lozano, M. & Lorenzo, C.

Title: Conservation of a Neandertal maxilla from Cova Foradà (Oliva, València, Spain)

**Posters**

Authors: Rangel de Lázaro, G., de la Cuétara, J.M., Lorenzo, C., Bruner, E.

Title: Computed tomography, diploic vessels, and human evolution: A preliminary comparison in physical and digital specimens.

**Session B40: Cleaning up a messy Mousterian: how to describe and interpret Late Middle Palaeolithic chrono-cultural variability in Atlantic Europe**

**Oral contributions**

Authors: Chacón, M.G., Baena, J., Carrión, E., Torres, C., Rosell, J., Blasco, R., Rivals, F.

Title: Mess at the end. The Late Mousterian in north and northeast Iberia: Cueva del Esquilieu (Cantabria, Spain) and Teixoneres Cave (Barcelona, Spain)



**Session B43: Testing social behaviour with novel approaches in the Prehistoric mortuary record of Iberia**

**Oral contributions**

Authors: Camarós, E., Cueto, M., Lorenzo, C., Teira, L., Rivals, F., Darlas, A. & Harvati, K.

Title: Unburied Neanderthals in Iberia? Paleoanthropological, forensic and experimental approach to carnivore modification of hominid inhumations

**Session B44: Within ditches and walls. Settlements, fortifications, enclosures, monuments, villages and farms in the third Millenium BCE**

**Oral contributions**

Authors: Gómez, M., Bernabeu, J.

Title: Identifying household clusters at Late Neolithic extensive pit-sites in the central area of the Mediterranean coast of the Iberian Peninsula.

**Session B53: The archaeology of early fire use**

**Oral contributions**

Authors: Carrancho, Á., Villalaín, J.J., Vallverdú, J., Carbonell, E.

Title: Mineral magnetism as a tool to study a possible fire at the Late Middle Pleistocene TE19 level of Sima del Elefante site (Sierra de Atapuerca, Burgos).

**Session B54: Genetic analysis of modern and ancient samples**

**Oral contributions**

Authors: Meyer, M., Arsuaga, J.L., Martínez, I., García, N., Garcia, A., Bermúdez de Castro, J.M., Carbonell, E., Valdiosera, C., Knapp, M., Road, B., Dabney, J., Qiaomei, F., Aximu-Petri, A., Glocke, I., Gansauge, M.T., Weihmann, A., Nickel, B., Pääbo, S.

Title: A genetic characterization of the fossils from Sima de los Huesos.

**Posters**

Authors: Lira, J., Alcázar de Velasco, A., Bonmatí, A., Martínez, V., Ortega, A.I., Cuenca Bescós, G., Lorenzo, C., Aramburu, A. & Arsuaga, J.L.

Title: Late Pleistocene *Equus hydruntinus* mitochondrial DNA from Iberian Peninsula: phylogenetic relationships

**Session B55: Advances in Archaeological Palimpsest Dissection**

**Oral contributions**

Authors: Sañudo, P., Blasco, R., Fernández Peris, J.



Title: Occupational events in Bolomor Cave (Valencia, Spain):  
Archeostratigraphic analysis of levels I to XII (100 - 200 kya).

### Posters

Authors: Carrancho, Á., Vallverdú, J., Carbonell, E.  
Title: Assessing synchronies in Neanderthal occupations from archaeomagnetic analyses. A case study of middle Palaeolithic combustion structures from level O al Abric Romaní rock-shelter (Capellades, Spain).

**Session B56: Time for the tide: new perspectives in intertidal resource exploitation during the Paleolithic and Mesolithic in the Mediterranean and Atlantic regions.**

### Oral contributions

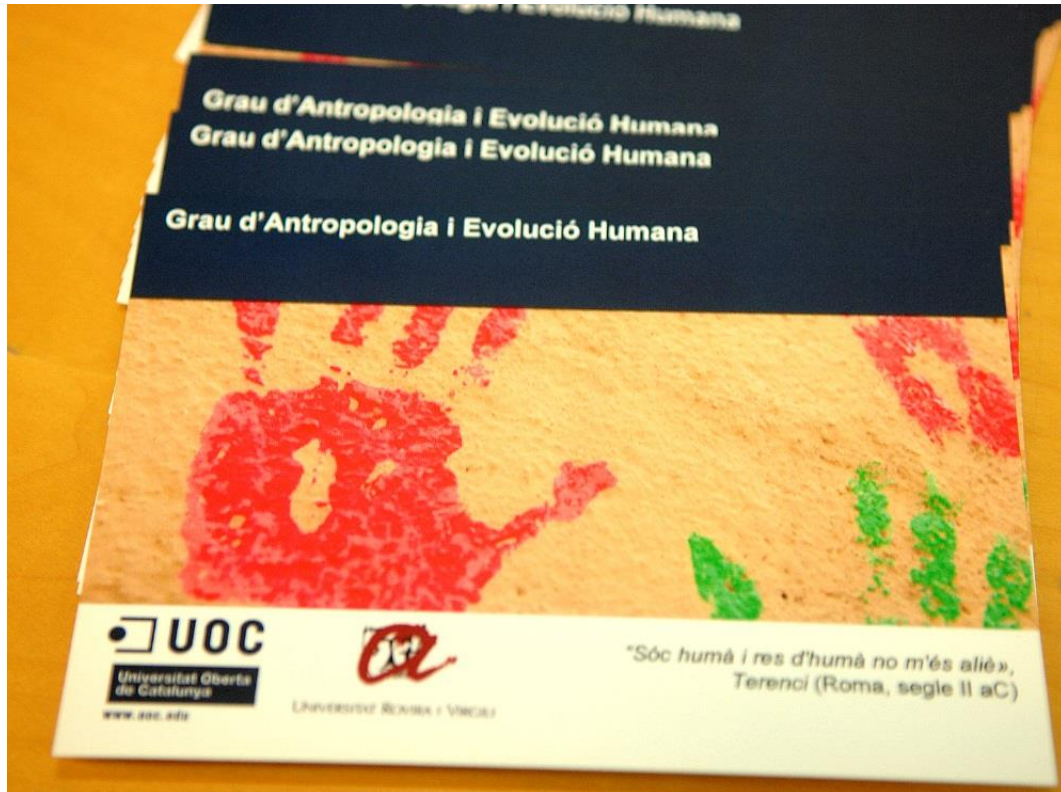
Authors: Fernández-López de Pablo, J., Gabriel, S.  
Title: El Collado shell midden and the exploitation patterns of littoral resources during the Mesolithic in Eastern Iberian Peninsula.



# ACADEMY



## Degrees and Doctoral Programme



Bachelor's Degree in Anthropology and Human Evolution (URV/UOC) / IPHES

The IPHES is involved in all three stages of university studies (bachelor's, master's and doctorate) in collaboration with the Universitat Rovira i Virgili. IPHES researchers in teaching programmes adapted to the European Higher Education Area participate in the following degree courses:

- Bachelor's Degree in History (URV)
- Bachelor's Degree in Anthropology and Human Evolution (URV/UOC)
- Master's Degree in Quaternary Archaeology and Human Evolution (Erasmus Mundus)
- Doctoral Programme in Quaternary and Prehistory (Erasmus Mundus)





## **Degree in History (URV)**

The bachelor's degree in History programme focuses on the twin goals of imparting the necessary knowledge and methods for the professionalization of students in the field of history, while ensuring that they acquire critical knowledge about the human past as a means to explain the present and understand past societies.

## **Degree in Anthropology and Human Evolution (URV/UOC)**

The bachelor's degree in Anthropology and Human Evolution programme is offered jointly by the Universitat Rovira i Virgili (URV) and Universitat Oberta de Catalunya (UOC). The programme is offered in two modalities: virtual or mixed (virtual and in-person classes). The virtual platform allows students to participate in the programme through the virtual campus of the UOC, while the mixed modality combines virtual classes with some in-person classes for subjects taught at the Campus Catalunya of the Universitat Rovira i Virgili.

## **Master's degree in Quaternary Archaeology and Human Evolution (Erasmus Mundus)**

This master's degree programme is based on three main areas: research into human palaeoecology and prehistory, palaeoanthropology, geology and palaeontology of the Quaternary; archaeological intervention in this stage of evolution; and the management, conservation and dissemination of archaeological heritage.

The programme is part of an international group comprising the International Master in Quaternary and Prehistory (IMQP) consortium:

- University of Ferrara (Italy)
- Polytechnic Institute of Tomar (Portugal)
- University of Trás-os-Montes and Alto Douro (Portugal)
- National Museum of Natural History (Paris, France)

## **Doctoral Program in Quaternary and Prehistory (Erasmus Mundus)**

The aim of this doctoral programme is to train doctors to conduct quality advanced research. To this end, the general objectives are the following:

- To incorporate doctoral students into a research group.
- To broaden students' skills so that they become specialized in the various research lines defined by the programme.
- To encourage students to undertake research projects using the methodology and scientific principles of their research line.
- To encourage the acquisition of general skills related to individual and group work, management of bibliographic databases, and the production of a doctoral thesis, etc.
- To write a doctoral thesis.



The doctoral programme is governed by an agreement between four university institutions, headed by the University of Ferrara. It aims for doctoral students to study at a minimum of three different institutions under a system of co-supervision, resulting in the award of a multiple degree. The universities participating in the programme are the following:

- University of Ferrara (Italy)
- University of Trás-os-Montes and Alto Douro (Portugal)
- National Museum of Natural History (Paris, France)

Research topics of the doctorate program:

- Lithic technology
- Zooarchaeology and Taphonomy
- Paleoanthropology
- Paleontology
- Geoarchaeology
- Evolution of the human behavior and cognition
- Molecular Archaeology
- Computer applications to Archeology
- Paleoenvironmental restitution
- Prehistoric Art
- Heritage dissemination
- Human Paleoecology
- Tecnologia lític



# Theses



Amèlia Bargalló / IPHES

## Defensed

### **Analisis tecnològica dels assentaments neandertals del nivell O de l'Abric Romaní.**

PhD student: **Amèlia Bargalló**

University: Universitat Rovira i Virgili

Department: History and Art History

Date of presentation: 13th of June 2014

Director: Eudald Carbonell

### **Estudi espaciotemporal d'un palimpsest. Anàlisi zooarqueològica i tafonòmica del Nivell O de l'Abric Romaní (Capellades, Barcelona, Espanya).**

PhD student: **M<sup>a</sup> Joana Gabucio Vilarrasa**

University: Universitat Rovira i Virgili

Department: History and Art History

Date of presentation: 23th of October 2014

Director: Isabel Cáceres

### **Etude de la gestion du bétail à l'aide de la méthode des micro-usures dentaires dans le Midi méditerranéen entre l'Age du Bronze et la période gallo-romaine.**

PhD student: **Cyrille Rieau**

University: Université Paul Valéry (Montpellier, France)



Department: Arts, Lettres, Langues, Sciences Humaines et Sociales  
 Date of presentation: 20/11/2014  
 Director: David Lefrèvre i Florent Rivals

**Evolución de *Mimomys savini* en la Península Ibérica durante el Pleistoceno inferior; implicaciones biocronológicas y paleoambientales en el estudio de las primeras poblaciones humanas de Europa.**

PhD student: **Iván Lozano Fernández**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Date of presentation: 4-4-2014  
 Director: Jordi Agustí

**The technological change in the western mediterranean during the MIS 3**

PhD student: Andrea Picin  
 University: Universitat Rovira i Virgili  
 Departament: History and Art History  
 Date of presentation: 12-3-2014  
 Director: Manuel Vaquero

**In progress**

**A study of the stone tool assemblages of Azokh Cave site, Nagorno Karabakh (Lesser Caucasus).**

PhD student: **Lena Asryan**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2015  
 Director: Norah Molone and Andreu Ollé

**Aprendizaje social en chimpancés**

PhD student: **David Riba Cano**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2015  
 Director: Marina Mosquera and Miquel Llorente

**El consum de petites preses durant el Paleolític mitjà: estratègies de subsistència dels homínids. El cas de la Cova de les Teixoneres (Moià, Barcelona).**

PhD student: **Anna Rufà**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2017  
 Director: R. Blasco and Jordi Rosell

**Consolidation des restes osseux: application aux matériels des gisements Pléistocènes de Aïn Hanech (Algérie).**

PhD student: **Souhila Roubach**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2015  
 Director: L. López-Polín and Andreu Ollé



**Desgast dental de poblacions Mesolítiques i Neolítiques de la Península Ibèrica**PhD student: **Jordi Porras**

University: Universitat Autònoma de Barcelona

Department: Animal Biology, Plant Biology and Ecology

Expected presentation date: 2017

Director: M. Eulàlia Subirà and Marina Lozano

**Digital analysis of the diploic vascular system in Anatomy, Archaeology and Paleoanthropology and its implications in the hominid endocranial thermoregulation**PhD student: **Gizeh Rangel de Lázaro**

University: Universitat Rovira i Virgili

Department: History and Art History

Expected presentation date: 2017

Director: Carlos Lorenzo and Emiliano Bruner

**Dinâmicas Ambientais e Humanas durante o Holocénico no Vale do Tejo.**PhD student: **Cristiana Ferreira Duarte**

University: Universidade de Trás-os-Montes e Alto Douro (Vila Real, Portugal).

Department: Geology

Expected presentation date: 2016

Director: Francesc Burjachs

**Early Pleistocene Ecological relations among Omnivorous species: Pigs, Bears, Monkeys and Hominins.**PhD student: **Tsegai Medin**

University: Universitat Rovira i Virgili

Department: History and Art History

Expected presentation date: December 2015

Director: Bienvenido Martínez-Navarro and Lorenzo Rook

**Estrategias de captación y explotación de los recursos animales en el Pleistoceno Medio: Los casos de los niveles TD10-1 y TD10-2 de la Gran Dolina (Sierra de Atapuerca, Burgos).**PhD student **Antonio Rodríguez-Hidalgo**

University: Universitat Rovira i Virgili

Department: History and Art History

Expected presentation date: June 2015

Director: Palmira Saladie and Eudald Carbonell

**Estudio de las manifestaciones rupestres del Noroeste de México: Antropología y Simbolismo**PhD student: **Beatriz Menéndez Iglesias**

University: Universitat Rovira i Virgili

Department: History and Art History

Expected presentation date: 2015

Director: Ramon Viñas

**Estudio del comportamiento Neandertal a través de la interacción homínidos-carnívoros en el Pleistoceno medio final y superior (200.000 - 50.000 BP).**PhD student: **Edgard Camarós**

University: Universitat Rovira i Virgili

Department: History and Art History

Expected presentation date: 2016



Director: Florent Rivals and Jordi Rosell

**Étude des environnements Holocènes des Tassilis n'Ajjer, Apport archéanthracologique**

PhD student: **Amrani Samira**  
 University: Université d'Alger  
 Expected presentation date: 2014  
 Director: Ethel Allué

**Evolució de la tecnologia de la fusta durant la prehistòria**

PhD student: **Alex Solé**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2014  
 Director: Ethel Allué

**Evolución de las paleocomunidades de micromamíferos en el Néogeno superior y Cuaternario del levante español.**

PhD student: **Pedro Piñero García**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2017  
 Director: Jordi Agustí

**Gestión de los recursos faunísticos en la cueva de El Mirador (Sierra de Atapuerca, Burgos).**

PhD student: **Patricia Martín**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2015  
 Director: Josep Maria Vergès

**Initial human dispersal and native fauna at the Southamerican southern cone, Argentina**

PhD student: **Karina Vanesa Chichkoyan Kayayan**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: December 2016  
 Director: Bienvenido Martínez-Navarro, José Luis Lanata and Margarita Belinchón

**La captación, selección y gestión de recursos líticos en la Prehistoria: Una visión diacrónica del uso del territorio y sus recursos en el entorno de la Sierra de Atapuerca (Burgos) durante el Pleistoceno Inferior y Medio.**

PhD student: **M<sup>a</sup> Dolores García-Antón Trassierra**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: June 2014  
 Director: Robert Sala and Eudald Carbonell.

**La Draga: Socioecología de les primeres comunitats ramaderes i agrícoles del NE de la Península Ibèrica.**

PhD student: **Jordi Revelles López**  
 University: Universitat Autònoma de Barcelona.  
 Department: Prehistory



Expected presentation date: 2016  
 Director: Raquel Piqué and Francesc Burjachs.

**La funcionalidad del cristal de roca en la prehistoria. Aproximación multidisciplinar a partir de la experimentación tecnológica, la traceología y los análisis de residuos.**

PhD student: **Juan Luís Fernández Marchena**

University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2017  
 Director: Andreu Ollé

**La Tecnología del Arte Rupestre Levantino: Una vía de investigación hacia su filiación crono-cultural.**

PhD student: **Neemias Santos da Rosa**

University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2016  
 Director: Ramon Viñas

**Lithic Assemblages of Prehistoric sites in Khorramabad valley, western Iran. Implications for Understanding the Technological Variability.**

PhD Student: **Behrouz Bazgir**

University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2016  
 Director: Andreu Ollé

**Materias primas líticas y aéreas de captación en el Abric Romaní (Capellades, Barcelona) durante el Paleolítico Medio: niveles M, O y P**

PhD student: **Bruno Gómez de Soler**

University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2016  
 Director: Josep Vallverdú and Manuel Vaquero

**Microwear and residue analysis of quartzite stone tools from the Pleistocene sites of Gran Dolina-TD10 (Sierra de Atapuerca, Burgos, Spain) and Payre (Ardèche, Rhône Valley, France).**

PhD student: **Antonella Pedernana**

University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2017  
 Director: Andreu Ollé and Marie-Hélène Moncel

**Morfologia radicular de poblacions Calcolítiques i de l'Edat del Bronze.**

PhD student: **Dolors Ceperuelo**

University: Universitat Internacional de Catalunya  
 Department: Odontology  
 Expected presentation date: 2015  
 Director: Montserrat Mercadé and Marina Lozano

**Neotafonomia d'òssos del pirineu i la seva aplicació arqueològica**

PhD student: **Maria Teresa Arilla**



Universitat: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2018  
 Director: Jordi Rosell and Ruth Blasco

**Organización y gestión de la tecnología lítica durante el Paleolítico superior final en el noreste peninsular. Dinámicas de reducción, intensidad de uso y patrones de movilidad.**

PhD student: **Juan Ignacio Morales**  
 University: Universitat Rovira i Virgili  
 Expected presentation date: 01-04-2012 /31-03-2015  
 Director: Josep Maria Vergès

**Personalidad y psicopatología en la evaluación y mejora del bienestar en chimpancés. Una aproximación interdisciplinar en el Centro de Recuperación de Primates de la Fundación Mona.**

PhD student: **Yulán Úbeda**  
 University: Universitat de Girona  
 Expected presentation date: 2016  
 Director: Miquel Llorente and Carles Rostán

**Restauración de restos fósiles pleistocenos.**

PhD Student: **Lucía López-Polín D'Olhaberrague**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2015  
 Director: Andreu Ollé

**Sistemas deposicionales de los afloramientos silíceos y estrategias de captación de recursos líticos durante el tránsito Pleistoceno-Holoceno en el noreste**

PhD student: **María Soto Quesada**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2015  
 Director: Josep Vallverdú

**Tafonomía de Mamíferos en la puna de Atacama (Norte de Chile) durante el Formativo Temprano: Los sitios Tulan 54 y Tulan 85.**

PhD student: **Boris Santander.**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Expected presentation date: 2015  
 Director: Isabel Cáceres

**Taphonomie des gisements plio-plestocenes du Nord d'Afrique.**

PhD student: **Nadia Kandi**  
 University: Université d'Alger, Algerie  
 Expected presentation date: 2016  
 Director: Isabel Cáceres, Mohamed Sahnouni

**Taphonomie des gisements du Pleistocene Moyen du Nord d'Afrique**

PhD student: **Razika Chelli**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History





Expected presentation date: 2017  
Director: Isabel Cáceres

**Tecnología cognitiva**

PhD student: **Carlotta Tavormina**  
University: Universitat Rovira i Virgili  
Department: History and Art History  
Expected presentation date: 2016  
Director: Marina Mosquera



## Master Thesis



Master Thesis – Ferrara September 2014 / IPHES

### Defensed

**Analisi tafonomica dei resti paleontologici dell'US 14 della grotta della Ciota Ciara (Paleolitico Medio) Borgosesia, VC, Italia.**

Author: **Fabio Buccheri**

University: Instituto Politécnico de Tomar. Universidade de Trás-os-Montes e Alto Douro.

Scheduled date: September, 2014

Director: Isabel Cáceres and Marta Arzarello

**Análisis del bienestar en un grupo de chimpancés (*Pan troglodytes*) en cautividad: un proceso de resocialización y rehabilitación en la Fundación Mona (Girona).**

Author: **Aida Longán**

Universitat: Universidad de Córdoba

Scheduled date: 2014

Director: Miquel Llorente

**Arte rupestre levantina un'analisi semiotica degli insiemi di Roca de los Moros, EL Cogul (Lérida) y la Cueva de los Grajos, Cieza (Murcia).**

Author: **Claudia Iannicelli**

University: Universitat Rovira i Virgili

Department: History and Art History

Scheduled date: September 2014

Director: Ramon Viñas



**Estrategias de transporte de carcasas de ungulados durante el Paleolítico Medio: el nivel M del Abric Romaní (Capellades, Barcelona).**

Author: **Juan Marín**

University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Scheduled date: September 2014  
 Direction: Palmira Saladié

**Estudio de paleodieta a partir del análisis de elementos traza de los restos óseos de una inhumación colectiva de la Edad del Cobre de la Cueva de El Mirador (Sierra de Atapuerca, Burgos, España).**

Author: **Yesica Prol**

University: International Erasmus Mundus Master in Quaternary and Prehistory.  
 Department: History and Art History  
 Scheduled date: September 2014  
 Director: Josep Maria Vergès

**Estudio de la producción y distribución de la industria en sílex del nivel P del Abric Romaní.**

Author: **Maria del Carmen Herranz**

University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Scheduled date: September 2014  
 Director: Gemma Chacón and Manuel Vaquero

**Etude paléontologique des grands mammifères quaternaires d'Oued Sarrat (Nord-Ouest de la Tunisie)**

Author: **Lamjed Amri**

University: Università di Ferrara (Master Erasmus Mundus)  
 Department: History and Art History  
 Scheduled date: September 2014  
 Director: Bienvenido Martínez-Navarro and Narjess Karoui-Yaakoub

**Exploitation of natural resources by chimpanzees (Pan troglodytes) in a captive naturalistic environment: Evaluation of seasonal changes.**

Author: **Rocío Cano**

University: Hedmark University College  
 Scheduled date: 2014  
 Director: Miquel Llorente

**Le gisement préhistorique del Pinar de Tarruella (Villena- Alicate). Analyse techno-typologique de l'assemblage lithique**

Author: **Kamel Larabi**

University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Scheduled date: September 2014  
 Director: Javier Fernández López de Pablo

**Neo-Tafonomia d'úrsids: establiment les seqüències de consum de l'ós bru (Ursus arctos) al Pirineu (Val d'Aran i Pallars Sobirà) per a posteriors aplicacions arqueològiques**

Author: **Maite Arilla**

University: Universitat Rovira i Virgili  
 Department: History and Art History



Scheduled date: September 2014  
 Director: Jordi Rosell and Ruth Blasco

**Phytolith analysis of cereals, modern soils and experimental crop processing activities: application to Archaeology**

Author: **Nafsika Chrysoula Andriopoulou**  
 University: Università di Ferrara  
 Scheduled date: September 2014  
 Director: Dan Cabanes and Ethel Allué

**Preliminary study on the application of computed tomography for morphological analysis of diploic vascular system in archaeology and paleoanthropology**

Author: **Gizeh Rangel de Lázaro**  
 University: Universitat Rovira i Virgili  
 Department: Department of History and Art History  
 Scheduled date: September 2014  
 Director: Emiliano Bruner and Carlos Lorenzo

**The significance of natural vegetation for the chimpanzees (*Pan troglodytes*) at the Fundació Mona in Girona, Catalonia (Spain).**

Author: **Marina Saavedra**  
 University: Université Montpellier 2  
 Department: Faculté des Sciences de Montpellier  
 Scheduled date: September 2014  
 Director: Miquel Llorente

**The palaeovegetation data based on pollen analysis of coupled sediment-coprolite samples. The pollinic taphonomy from level M (Middle Palaeolithic) of Abric Romaní (Capellades, Spain).**

Author: **Olena Vinogradova**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Scheduled date: September 2014  
 Director: Francesc Burjachs

**Zooarchaeological and taphonomical study of the early Pleistocene site Barranc de la Boella (la Canonja, Tarragona, Spain).**

Author: **Antonio Pineda**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Scheduled date: September 2014  
 Director: Palmira Saladié

**In progress**

**Análisis de las alteraciones térmicas postdeposicionales sobre especímenes de aves**

Candidate: **Sara García Ruíz**  
 University: Universidad de Alcalá (UAH)  
 Department: Ciencias de la Vida  
 Scheduled date: September 2015  
 Director: Ruth Blasco and Ignacio Martínez



**Análisis zooarqueológico de los restos faunísticos del Tossal de la Roca**

Candidate: **Cristina Gomez**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Scheduled date: September 2016  
 Director: Rosa Huguet

**Análisis zooarqueológico de nivel F de Navalmaillo (Pinilla del Valle, Madrid)**

Candidate: **Abel Monclan**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Scheduled date: September 2016  
 Director: Rosa Huguet

**Análisis zooarqueológica de los restos faunísticos del nivel P del Abric Romaní.**

Candidate: **Raquel Pérez Tenório**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Scheduled date: September 2016  
 Director: Palmira Saladié

**Enthesis development in hand bones**

Candidate: **Alexandros Karakostis**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Scheduled date: September 2015  
 Director: Carlos Lorenzo

**Estudio taxonómico y tafonómico de los restos óseos de animales del Pleistoceno superior de Valsequillo, Puebla, México**

Candidate: **Óscar Ricardo Solís-Torres**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Scheduled date: September 2015  
 Director: Bienvenido Martínez-Navarro and Joaquín Arroyo Cabrales

**Facial analysis of *Homo heidelbergensis* and the phylogenetical position of the Kabwe crania**

Candidate: **Azahara Salazar Fernandez**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Scheduled date: September 2015  
 Director: Carlos Lorenzo and Florent Detroit

**The Middle to Upper Palaeolithic Transition in the Iberian Peninsula: Agent Based Modelling of demographic behaviours**

Candidate: **Carolina Cucart**  
 University: Universitat Rovira i Virgili  
 Department: History and Art History  
 Scheduled date: September 2015  
 Director: Javier Fernández López de Pablo and Sergi Lozano.





OUTREACH

## Conferences



Eudald Carbonell. Conference: Els primers muntanyencs/ IPHES

### Catalonia

#### **Els primers muntanyencs**

Who: Eudald Carbonell and Ramon Viñas

Organization: Diputació de Tarragona

Location: Tarragona

Date: 06.02.2014

#### **Les coves La Pintada y El Ratón, Baja California, Mèxic**

Who: Ramon Viñas and Albert Rubio

Organization: Consulado de México

Location: Barcelona

Date: 19.02.2014

#### **Empirical Bayesian Methods and Landscape Archaeology. Building probabilistic chronological frameworks using surface data sets**

Who: Javier Fernández López de Pablo

Organization: Universitat Autònoma de Barcelona

Location: Bellaterra

Date: 09.03.2014

#### **Paleo-anthropo-archaeological Projects at the Eritrean Danakil Depression.**

Who: Tsegai Medin

Organization: IPHES



Location: Tarragona  
Date: 14.03.2013

**Atapuerca**

Who: Eudald Carbonell  
Organization: Escola d'adults de Girona  
Location: Girona  
Location: 17.03.2014

**Rock Art of Valltorta-Gasulla, museum and cultural park**

Who: Ramon Viñas.  
Organization: Museu de la Conca de Barberà  
Location: Montblanc, Tarragona  
Date: 3.04.2014

**El poblament paleolític del Montgrí. Reflexions sobre l'evolució humana.**

Who: Eudald Carbonell  
Organization: Museu de l'Anxova i sal de l'Escala  
Location: Escala  
Date: 25.04.2014

**L'Art rupestre de les Muntanyes de Prades.**

Who: Ramon Viñas.  
Organization: Biblioteca Municipal de Sarral, Tarragona  
Location: Sarral, Tarragona  
Date: 19. 05. 2014

**Carrera investigadora i accions personals: context, experiències i consells pràctics per assolir una beca d'investigació**

Who: Javier Fernández López de Pablo  
Organization: Universitat Rovira i Virgili  
Location: Tarragona  
Date: 17.05.2014 and 24.05.2014

**Estudiar la Prehistòria**

Who: Rosa Huguet  
Organization: Escola Marta Mata  
Location: El Vendrell  
Date: 29.05.2014

**Què és l'IPHES**

Who: Eudald Carbonell  
Organization: Rotary Club de Tarragona  
Location: Tarragona  
Date: 09.06.2014

**Els orígens de la parla**

Who: Lluís Batista  
Organization: Castell de Maldà  
Location: Maldà (Lleida)  
Date: 19.06.2014

**Abric Romaní en l'arqueologia a Catalunya**

Who: Eudald Carbonell





Organization: Patronal de St. Quirze del Vallès  
 Location: Sant Quirze del Vallès  
 Date: 23.10.2014

**La Roca dels Moros del Cogul, 100 anys després de la seva descoberta**

Who: Ramon Viñas.  
 Organization: Museu de les mines de Gavà, Barcelona  
 Location: Gavà, Barcelona  
 Data: 23. 10. 2014.

**Què ens fa ser humans?**

Who: Eudald Carbonell  
 Organization: Institut Domènech i Montaner  
 Location: Reus  
 Venue: 12.11.2014

**El barranc del Mas d'en Llorç. Difusió i conservació de l'art rupestre de les Muntanyes de Prades**

Who: Ramon Viñas (presented by J.M.Verges in the absence of the author).  
 Organization: Palau de l'Abad.  
 Location: Poblet (Tarragona).  
 Date: 14.11.2014.

**L'ofici d'Arqueobotànic**

Who: Francesc Burjachs  
 Organization: IES Maria Aurèlia Campmany.  
 Location: Cornellà de Llobregat, Barcelona.  
 Date: 19.11.2014

**Spain**

**Los primeros europeos**

Who: Eudald Carbonell  
 Organization: Fundación Repsol  
 Location: Salamanca  
 Date: 28.01.2014

**L'arqueòleg i el futur**

Who: Eudald Carbonell  
 Organization: Club Diario de Mallorca  
 Location: Mallorca  
 Date: 23.04.2014

**Atapuerca y la evolución humana**

Who: Eudald Carbonell  
 Organization: Congreso Nacional de la SEHAD  
 Location: Burgos  
 Date: 05.06.2014

**The Tarragona Smart City Project**

Who: Sergi Lozano  
 Organization: La Granja de San Ildefonso  
 Location: Segovia (Spain)



Date: 16.07.2014

**El cementerio de los elefantes y los homínidos del lago**

Who: Bienvenido Martínez-Navarro

Organization: Castillo de Castril

Location: Castril (Granada)

Date: 18.08.2014

**El origen del proyecto y el impacto a nivel nacional**

Who: Eudald Carbonell

Organization: Asociación San Bernabé de Zaldueño

Location: Zaldueño

Date: 18.10.2014

**Del bifaz al digital**

Who: Eudald Carbonell

Organization: Foro de la cultura

Location: Burgos

Date: 08.11.2014

**International**

**Reconstructing Quaternary climates of the Iberian Peninsula using fossil amphibians and reptiles**

Who: Hugues-Alexandre Blain

Organization: Museum für Naturkunde

Location: Berlin, German

Date: 13.03.2014

**Using experiments to answer zooarchaeological questions: some examples applied to Spanish Middle Pleistocene sites” in the Tel-Aviv University (Tel-Aviv, Israel)**

Who: R. Blasco and J. Rosell

Organization: Tel-Aviv University

Location: Tel-Aviv, Israel

Date: 20.03.2014

**Quand la Terre raconte l'histoire de la Vie: Chasse aux vertébrés sur les berges d'un lac perdu**

Who: Bienvenido Martínez

Organization: Cité des Sciences

Location: Tunis (Tunisia)

Date: 16.05.2014

**Dental microwear of the *Homo* species from Sierra de Atapuerca sites (Spain).**

Who: Marina Lozano

Organization: Research Laboratory for Archaeology & the History of Art, University of Oxford (UK)

Location: Oxford, UK

Date: 21.05.2014



**One million years of cultural dental wear: the case of Sierra de Atapuerca sites (Spain).**

Who: Marina Lozano

Organization: Research Laboratory for Archaeology & the History of Art, University of Oxford (UK)

Location: Oxford, UK

Date: 22.05.2014

**El patrimonio arqueo-paleontológico de Santiago Chazumba, Oaxaca**

Who: Ramon Viñas i Joaquin Arroyo.

Organization: Plaza Presidencia.

Location: Santiago Chazumba (México).

Date: 27.11. 2014.

**Reconstructing Quaternary climates of the Iberian Peninsula using fossil amphibians and reptiles**

Who: Hugues-Alexandre Blain

Organization: Universidad de Ferrara

Location: Ferrara

Date: 04.12.2014



## Management of exhibitions



Exhibition Europa fa 1 m.a. / IPHES

### Catalonia

#### **Jordi Sabater Pi. Una vida dedicada a la recerca**

Institution or organizer: IPHES-Fundació Lluís Corominas

Location: Banyoles (Girona)

Dates: from 25.01.2014 to 28.02.2014

Touring exhibition

#### **Espai Boella**

Institution or organizer: IPHES- Ajuntament de la Canonja

Location: La Canonja (Tarragona)

Dates: from 10.04.2014 to 27.06.2014

Touring exhibition

#### **Europa fa 1 m.a.**

Institution or organizer: IPHES- Ajuntament de la Canonja

Location: La Canonja.

Dates: from 16.05.2014 to 27.06.2014

Touring exhibition

Institution or organizer: Ajuntament de L'Espluga de Francolí

Location: L'Espluga de Francolí.

Dates: from 9.07.2014 to 16.12.2014



Touring exhibition

**Fa 3,5 m.a. El Camp dels Ninots**

Institution or organizer: IPHES- Ajuntament de Caldes de Malavella

Location: Caldes de Malavella.

Dates: from 26 to 30 May 2014/every Sunday of the year

Touring exhibition

**Un Espai Sagrat. La Roca dels Moros del Cogul**

Institution or organizer: Museu d'Arqueologia de Catalunya/ IPHES

Location: Gavà

Dates: from 09.10.2014 to 30.11.14

Touring exhibition

**Evolució paleoambiental i poblament prehistòric a les conques dels rius Francolí, Gaià, Siurana i rieres del Camp de Tarragona (2001-2014)**

Location: Vimbodí i Poblet

Date: 14-15 November 2014

Touring exhibition

**Spain**

**Iberos. Nuestra Civilización antes de Roma**

Institution or organizer: Obra Social "la Caixa"

Location: Santander. Date: 05.02.2014

Location: Logroño. Date: 26.03.2014

Touring exhibition

**Neolítico. De Nómadas a Sedentarios**

Institution or organizer: Obra Social "la Caixa"

Location: Ourense. Date: 06.02.2014

Location: Torrejón de Ardoz. Date: 01.04.2014

Location: Jaén. Date: 28.05.2014

Touring exhibition

**Erase una vez...El Habla**

Institution or organizer: Obra Social "la Caixa"

Location: Huelva. Date: 21.01.2014

Location: Almería. Date: 21.03.2014

Location: Cuenca. Date: 14.05.2014

Location: Torrevieja. Date: 04.07.2014

Location: Pontevedra. Date: 23.09.2014

Touring exhibition

**Los 13 del Sidrón**

Location: Oviedo

Date: January 2014

Touring exhibition



Books



Ibáñez, N. *Un tresor dins la muntanya*. 2014. Onada Edicions.

Ibáñez, N. *Un Sant Jordi especial*. 2014. Onada Edicions.

Viñas, R., Morote, G. 2014. *Art rupestre de Valltorta-Gasulla, museu i parc cultural*. Asociación Amigos del Parque Cultural de La Valltorta y su Museo

Viñas, R. 2014. *La Cueva Pintada. Proceso evolutivo de un centro ceremonial, sierra de San Francisco, Baja California Sur, México*. SERP



## Science education



Visits to schools / IPHES

### Catalonia

#### **Bojos per l'Arqueologia 2014**

Institution or organizer: Fundació Catalunya- La Pedrera

Location: Tarragona and Girona

Dates: 18 Saturdays, starting in 2014

#### **Estela project**

Institution or organizer: IPHES- Fundació Estela

Location: Tarragona

Dates: 17.01.2014 / 05.11.2014/ 12.11.2014

#### **IPHES a les escoles**

Institution or organizer: IPHES

Location: Calella. Dates: 23, 29, 30.01.2014/ 27.10.2014. 17.11.2014

Location: La Canonja. Dates: 3.06.2014

Location: Barcelona. Dates: 28.10.2014 /11.11.2014

#### **Visits to schools IPHES**

Institution or organizer: IPHES

Location: Tarragona

Date: 28.01.2014 (INS Berenguer d'Entença)



Date: 09.04.2014 (INS Pons d'Icart)

**Joves i Ciència**

Institution or organizer: Fundació Catalunya- La Pedrera  
 Location: Tarragona  
 Dates: 30.06.2014 to 4.07.2014/ 14.07.2014 to 18.07.2014

**Premis extraordinaris de Batxillerat**

Institution or organizer: Departament d'Ensenyament Generalitat de Catalunya  
 Location: Tarragona  
 Dates: 07.07.2014 to 11.07.2014

**IPHES Integra program**

Institution or organizer: IPHES  
 Location: Calella  
 Dates: 3.11.2014 to 10.11.2014

**Campus Científico de Verano**

Institution or organizer: URV- FECYT  
 Location: Tarragona  
 Dates: 30.06.2014 to 27.07.2014

**Campus "EstiURV"**

Institution or organizer: URV  
 Location: Tarragona  
 Dates: 07.07.2014 to 11.07.2014

**Taller teòric i pràctic per a saber si una taca sobre una eina de pedra és de sang**

Who: Policarp Hortolà  
 Organization: Escola Auró  
 Location: Barcelona  
 Date: 28.10.2014 & 11.11.2014

**Tallers didàctics Camp dels Ninots**

Institution or organizer: IPHES- Ajuntament de Caldes de Malavella  
 Location: Caldes de Malavella  
 Dates: All Sunday from 2014

**Guided tours to Conjunto rupestre del Barranc del Mas d'en Llorç**

Institution or organizer: IPHES- Ajuntament de Montblanc  
 Location: Montblanc  
 Dates: 10.12.2014 to 15.12.2014

**Workshop prehistoric art techniques**

Institution or organizer: IPHES- Ajuntament de Montblanc  
 Location: Montblanc  
 Dates: January 2014

**Taller de tècniques d'art prehistòric**

Guies Oficina de Turisme de Montblanc.  
 Organization: CIAR, Centre d'Interpretació de les Muntanyes de Prades.  
 Location: Montblanc, Tarragona.  
 Date: January 2014





## Spain

### **Didactic workshop: "La Vida Paleolítica en Cova Eirós"**

Institution or organizer: IPHES- Ayuntamiento de Triacastela

Location: Triacastela (Lugo)

Dates: 15.08.2014

## **Museology**

**Direction:** Museu Comarcal de la Conca de Barberà and museological sections:  
Centre d'Interpretació de l'art Rupestre de les Muntanyes de Prades, Museu  
Mares i Molins de la Vila. Montblanc (Catalonia)



## Science communication



La Sexta - Andreu Buenafuente and Eudald Carbonell / IPHES

### Mass Media:

Television: TV3 - Televisió de Catalunya (Telenotícies, Quequicom...), Canal 33, 324, TVE, Antena 3, Telecinco, TAC 12, La Sexta (En el aire).

Radio: Catalunya Ràdio, la Xarxa, Radio Intereconomía, Cadena COPE, Tarragona Ràdio, RAC 1, Cadena Ser, Onda Cero, Ser Andalucía, Radio Nacional de España, Ser Girona, Radio Granada, etc.

### News in national and international newspaper:

*The Guardian*, *Times*, *La Presse*, *News Scientist*, *Huffington Post*, *El Mundo*, *Iberomaerica.net*, *Vilaweb*, *Prensa Latina*, *Ara*, *Punt Avui*, *la Vanguardia*, *el Mundo*, *Regió 7*, *Nació digital*, *Diari de Girona*, *el Periódico*, *Diario Público*, *Tribuna*, *Més Tarragona*, *Diari de Tarragona*, *El Economista*, *El País*, *NCYT*, *ABC*, *Prensa Libre*, *Diari de Tarragona*, *Regió 7*, *La Mañana*, *El Norte de Castilla*, *La Razón*, *Diario de Burgos*, *el Faro de Vigo*, etc.

**Revues:** *Sapiens*, *National Geographic*, *Lifestyle*...

**News agency:** ACN, EFE, Europa Press, SINC, Universia...

**Press releases:** 185 in English, Catalan and Spanish

**News published in the Mass Media:** 3.500

### Strategic alliances and collaborations with the media

- Report about IPHES on different television channels (TVE-1, TV2, TV3)
- Programme "Evoluciona", Tarragona Ràdio, every 15 days from February

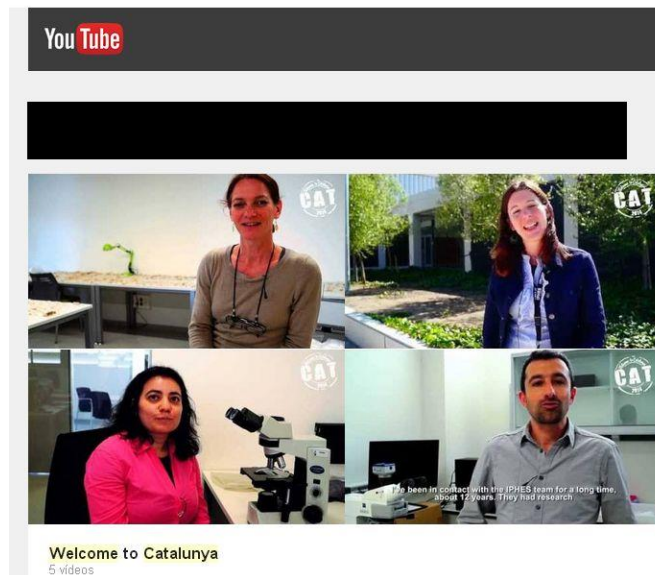


to May, live from the Institute's offices.

- Serie about IPHES with TAC 12 – in editing stage
- One page about IPHES in the Diari de Tarragona fortnightly
- Blog Sapiens – articles by Eudald Carbonell – Science Dissemination

### International

- Project “Welcome to Catalunya” – Videos International Students – Generalitat de Catalunya



**Own communication channels:** New institucional website: [www.iphes.cat](http://www.iphes.cat)

### Blogs:

News (in English) <https://iphesnews.wordpress.com/>

Expert Blog (in English) <http://iphes.blogspot.com/>

News in Catalan <http://iphes-noticies.blogspot.com.es/>

News in Spanish <http://iphesnoticias.blogspot.com.es/>

News for Latin America community <http://iphesactualidad.blogspot.com/>

### Social networks:

Facebook:

- New IPHES page
- En reconeixement a la tasca científica del primatòleg Jordi Sabater Pi

Twitter

- IPHES @iphes

Total followers: 21,000

Youtube 19.000 reproductions

### Internal communication:

Developing communication plans for research groups and projects





KNOWLEDGE TRANSFER &  
SERVICES

## Transfer actions

### R+D+I projects

#### **Tarragona Smart Mediterranean City**

Category: Scientific assessment

Implicated institutions: Ajuntament de Tarragona, URV, Repsol and AGBAR

### Scientific assessment

#### **“Pla director del jaciment arqueològic de la Boella”**

Category: Heritization scientific assessment

Partner: Ajuntament de la Canonja

#### **“Pla director del jaciment arqueopaleontològic del Camp dels Ninots”**

Category: Heritization scientific assessment

Partner: Ajuntament de Caldes de Malavella

#### **“Proposta de continguts per a la renovació de la museografia del Museu Salvador Vilaseca de Reus”.**

Category: Museographic contents scientific assessment

Partner: Ajuntament de Reus

#### **“Socialització del jaciment paleontològic del Camp dels Ninots”.**

Category: Contents scientific assessment

Partner: Ajuntament de Caldes de Malavella

#### **“Centre d'Interpretació sobre el termalisme, del pliocè (Camp dels Ninots a l'actualitat (el fenomen balneari))”.**

Category: Contents scientific assessment

Partner: Ajuntament de Caldes de Malavella

#### **“Catalunya abans dels humans. Avantprojecte museogràfic del jaciment arqueopaleontològic del Camp dels Ninots”.**

Category: Museographic contents scientific assessment

Partner: Departament de Cultura. Generalitat de Catalunya.

#### **“L'Abric Romani i els Neandertals. Avantprojecte museogràfic del jaciment arqueològic de l'Abric Romani”.**

Category: Museographic contents scientific assessment

Partner: Departament de Cultura. Generalitat de Catalunya.

#### **Guided visites management at the exhibition: "Ara fa 3,5 milions d'anys. El Camp dels Ninots" and educational workshops management about Camp dels Ninots palaeonthological site.**

Category: Contents scientific assessment

Partner: Ajuntament de Caldes de Malavella



## Scientific training

- Scientific coordination of four students on placements (3rd course of Grau en Història –URV).
- Scientific coordination of eight students in voluntary practices (2on and 3rd course of Grau en Història –URV and Grau d' Arqueologia-UB).
- Scientific coordination of one student in extracurricular practices (Grau en Biologia –UB).
- Scientific training on palynological samples and data processing of five students in European Master's Degree in Quaternary and Prehistory (Erasmus Mundus).
- Scientific training on palynological samples and data processing of four external researchers.
- Seminar: "Carrera investigadora i accions personals: context, experiències i consells pràctics per assolir una beca d'investigació", intended to researchers of the URV.
- Workshop: "Taller de tècniques d'art prehistòric", intended to Tourism Oficial Guides of Montblanc.



## Scientific technical services



Geoarchaeology laboratory / IPHES

**Design and contents of 9 interpretative signs corresponding to the actuation: "Socialització del jaciment del Camp dels Ninots" en base al projecte museogràfic previ.**

Customer: Ajuntament de Caldes de Malavella.

**Adecuation of the exhibition: "Ara fa 3,5 milions d'anys. El Camp dels Ninots" permanently placed in Cal Ferrer de la Plaça de Caldes de Malavella.**

Customer: Ajuntament de Caldes de Malavella

**"Triatge de sediment i estudi dels microvertebrats del sediment arqueològic procedent del jaciment arqueològic de la Boella (La Canonja, Tarragonès). Novembre i desembre de 2014".**

Customer: Ajuntament de la Canonja

**"Documentació, classificació i estudi del material arqueològic extret durant la intervenció arqueològica realitzada a la cova del Far (Salou, Tarragonès)".**

Customer: Ajuntament de Salou

**Project: "Intervenció i supervisió dels treballs de camp del jaciment arqueològic Casa Corona (Villena, Alacant)".**

Customer: Arpa Patrimonio S.A.



**“Neteja, consolidació i reconstrucció d'una defensa d'elefant recuperada al jaciment del Barranc de la Boella (La Canonja, Tarragonès)”**

Customer: Ajuntament de la Canonja

**Multidisciplinar study: “Pla de Dalt Sant Gregori, Girona: Estudi geomorfològic i estratigràfic, Estudi geocronològic, Estudi de matèries primeres, Estudi traceològic, Estudi antracològic”**

Customer: Ajuntament de Caldes de Malavella





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Escola Tècnica Superior d'Enginyeria Química (ETSEQ)	E4
Facultat de Ciències de l'Educació i Psicologia	W0

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Departament d'Enginyeria Mecànica	E4
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Departament de Psicologia	N0

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Escola Tècnica Superior d'Enginyeria Química (ETSEQ)	E1
Facultat de Ciències de l'Educació i Psicologia	N0 + W0

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Escola Tècnica Superior d'Enginyeria Química (ETSEQ)	E3

**CRAI****PLANTES PILOT****PAVELLÓ POLIESPORTIU****FUNDACIÓ UNIVERSITAT ROVIRA I VIRGILI**

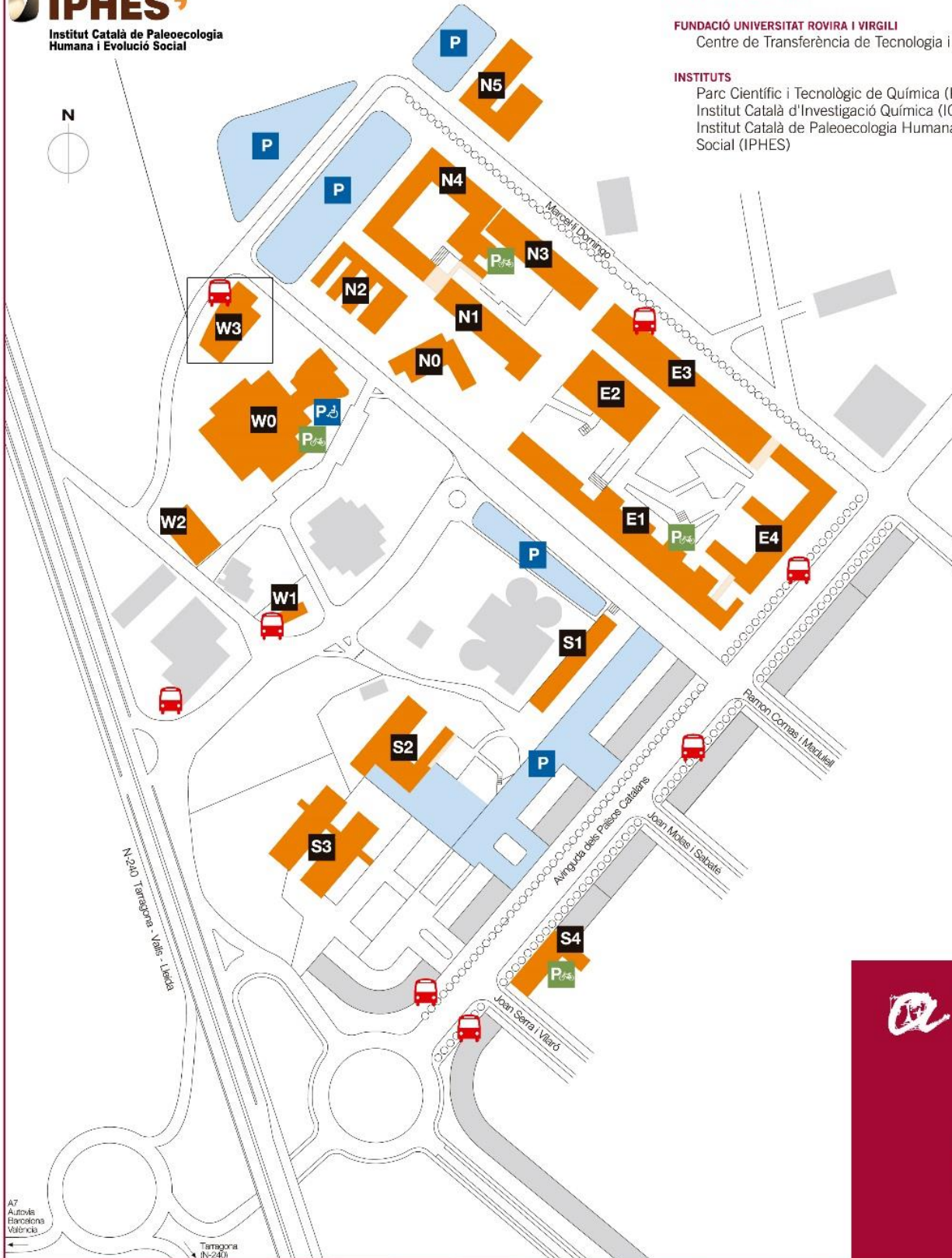
Centre de Transferència de Tecnologia i Innovació	S2
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**INSTITUTS**

Parc Científic i Tecnològic de Química (PCTQ)	N5
Institut Català d'Investigació Química (ICIQ)	S3
Institut Català de Paleocologia Humana i Evolució Social (IPHES)	W3

**IPHES**

Institut Català de Paleocologia Humana i Evolució Social


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