



IPHES^R

**Institut Català de Paleoecologia
Humana i Evolució Social**



2020
Annual report

Board of Trustees



Member of



With the support of



IPHES received the Excellence Award “Maria de Maeztu” of the Spanish Ministry of Science and Innovation



**EXCELENCIA
MARÍA
DE MAEZTU**
2020 - 2023



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Foreword



We have just closed a strange and special year. The COVID pandemic did test the resilience of human societies all over the world and our own at IPHES. This has not been the first pandemic suffered by humankind. History records many similar situations at least from Bronze Age but the modern paradigm of progress stated that human society and economic history is generally progressive. COVID has demonstrated that improvement in human conditions over history is not granted and that human resilience needs to be improved.

We also need to develop the historical memory, not to forget the interaction of human and environment. This is just the core goal of IPHES and this is why we use the pandemic as an example of the human nature in our programs of socialization of evolutionary knowledge.

IPHES is an institute whose research is based on the field work and laboratory analysis. We have then also been tested by the health crisis. The rise of the pandemic demanded a specific protocol for both the excavation and the access and use of the laboratories. Finally, it has been possible for us to carry out fieldwork on the main sites: Atapuerca, Abric Romaní, Barranc de la Boella, Camp dels Ninots among many others. Only the excavations abroad did suffer a hard restriction, except for our project in Eritrea, where the excavation took place before the pandemic wide spread.

Nevertheless, 2020 has been for IPHES an excellent year in other domains. It already began on October 2019, with the CERCA evaluation that granted an excellent score for our institute. This path was improved in July 2020 when the Spanish Ministry of Science and Innovation granted the Excellence Award “Maria de Maeztu” to IPHES. This places our institute in the elite of the research in Spain. This also implies a great responsibility because we will be asked to improve our structure, our scientific results, number of funded projects and visibility. In short, within four years we have to demonstrate the improvement of our leadership in the domain of human evolution and palaeoecology.

The visibility and scientific outcomes of IPHES continue to be very good, as you can read in this Report. I would like to emphasize the number of scientific papers, the social visibility and the success in getting post-doc positions. These are some of the domains in which IPHES got excellent results during 2020.

Nevertheless, we need specially an improvement in the leadership of highly cited papers and be able to obtain European Research Council granted research projects. These are some of our goals and duties for the forthcoming years.

Let me just to add the demand for an improvement in worldwide social integration and resilience to overcome the inequalities that the pandemic has enlarged.

Robert Sala
Director



Management



About us: General data 2020

The Institut Català de Paleoeologia Humana i Evolució Social (IPHES) is a research center created in 2005 with the aim to carry out excellent research in the field of Paleoeology 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 2020, we have reached 141 articles in journals of the highest standard in our field. We also have continued to widen the spectrum of multidisciplinary publications such as Quaternary International, Quaternary Science review, journal of Archaeological Science Reports among others.

The management of the Iphes has been facing four great challenges during 2020.

New IPHES statutes

The first challenge is becoming attached to the Generalitat de Catalunya, to the Ministry of Business and Knowledge.

The new statutes of the IPHES have been published on October 26, 2020. The Generalitat is from now on a majority in the IPHES Board of Trustees, the highest governing body,

During 2020 the Board of Trustees has celebrated 3 meetings in the dates 27th march of 2020, 8th June 202 and 23rd of October 2020.

Consequently, new procedures have to be applied to the IPHES together with those regulations corresponding to the bodies depending on the Generalitat.

The budgetary control applied by the Generalitat requires more periodical financial rapports and different procedures following the Generalitat Budged planning and execution.

In the other hand, the purchase of goods and services undertaken by the IPHES, continue to adapt gradually to the public tendering rules, due to the fact that the IPHES awards contracts as an intensive user of public funds.

Covid-19

The second circumstance that marked 2020 was the adaptation to the circumstances of the covid.

The management team has worked hard to apply the following measures:

- A. Daily monitoring of people entering the building in order to identify the chain of contacts in case of contagion;
- B. Daily scrupulous cleaning with viricides;
- C. C: Safe ventilation of the building following the prevention guidelines of the COVID-19 established by the Generalitat de Catalunya;



- D. Use of hydrogels.
- E. Application of the protocols that were defined in laboratories and collections;
- F. Maintaining distances in the workplace;
- G. Permanent use of the FFP2 mask inside the building;
- H. COVID-19 tests for IPHES staff and other excavation participants;
- I. COVID-19 protocol applicable to excavations, under the coordination of the director of the excavations;
- J. Staff training (everyone has made a COVID-19 training pill);
- K. General information to staff (signs in the building, emails ...)

Despite the circumstance, the management area has continued to fulfill its core activities such as payments on time, project accounting, hiring staff and purchasing services and goods, among others.

In addition, it should be noted that ICTs have been adapted to serve the circumstances. Since the beginning of the confinement, all possible support has been given, both by telephone and through remote connection applications, to resolve any incidents that may arise.

HRS4R

As a third challenge, we passed an internal evaluation of the HRS4R Human Resources Strategy for Researchers, two years after its award.

In 2018, IPHES obtained the HRS4R label, a commitment to improve Human Resources, which includes in a multi-year activity plan and its calendar. The label serves to attract the best talent and to help increase the chances

of the IPHES getting good results in competitive program evaluations when the label is required. In 2020 IPHES submitted the documentation for an internal evaluation, called *internim assessment*, in order to explain the fulfillment of the HRS4R. The IPHES obtained satisfactory feedback. An external audit is planned for 2023, to be carried out by evaluators appointed by the European Commission. The renewal of the label would correspond to 2024.

Within the HRS4R strategy, the following protocols that have been developed during 2020. In 2021 it is planned to work on a new the Gender Equality Plan and the Welcome Guide.



HR EXCELLENCE IN RESEARCH





Improving Health and Security Conditions in the field work

Improving management of prevention and control of the IPHES occupational risks and increasing awareness and training among researchers has been the four challenge.

During 2020 a wide range of personal protection equipment as safety shoes, working gloves, protection products for head, hearing, face, eyes, respiratory tract, as well as first aid and anti-fall Systems have been renewed.



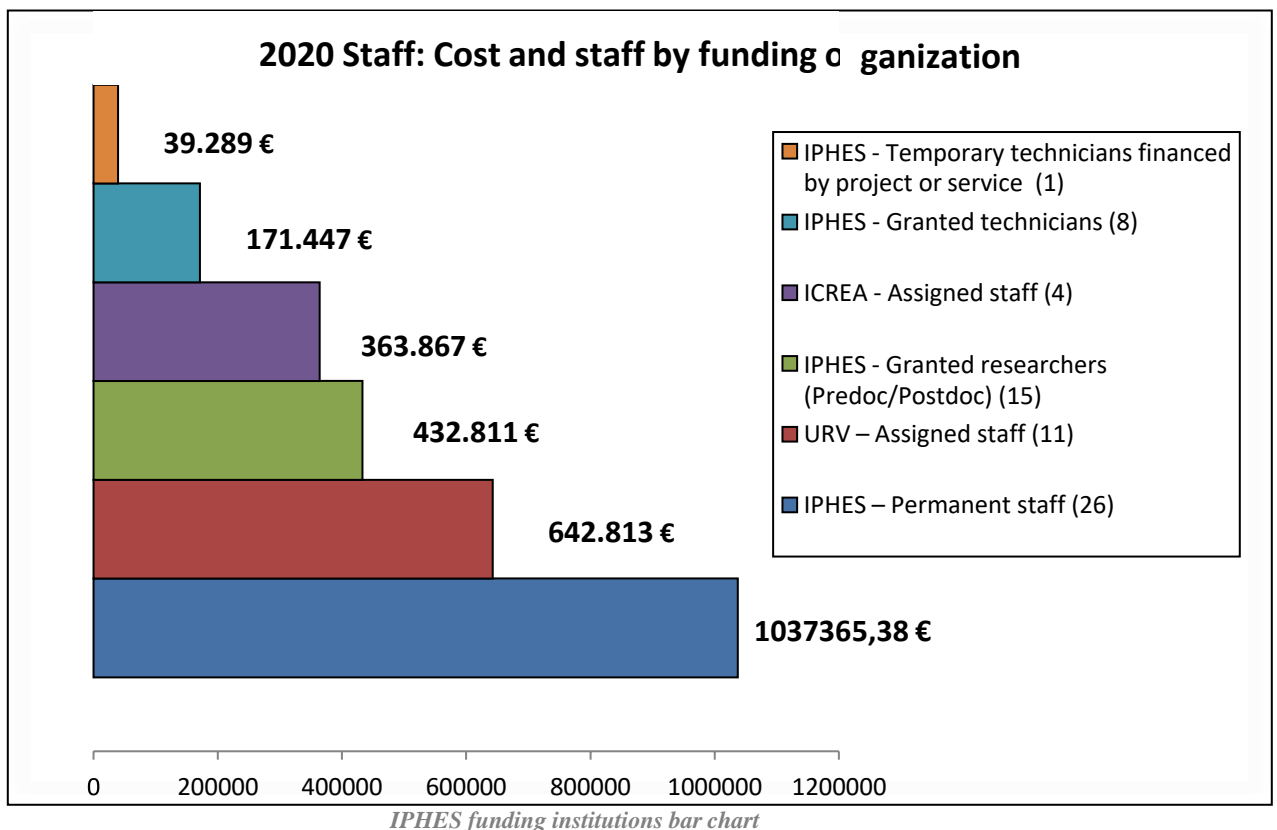
In this line IPHES has contracted a new Prevention of Occupational Risks (SGPRL) and a training action has been initiated in a preventive resource for all site managers. The aim is to train, raise awareness, provide equipment and take suitable measures to protect against occupational hazards.

In the field of institutional relationship, the Management area has continued a great alliance with the territory visiting more than 19 municipalities participating in more than 75 activities in

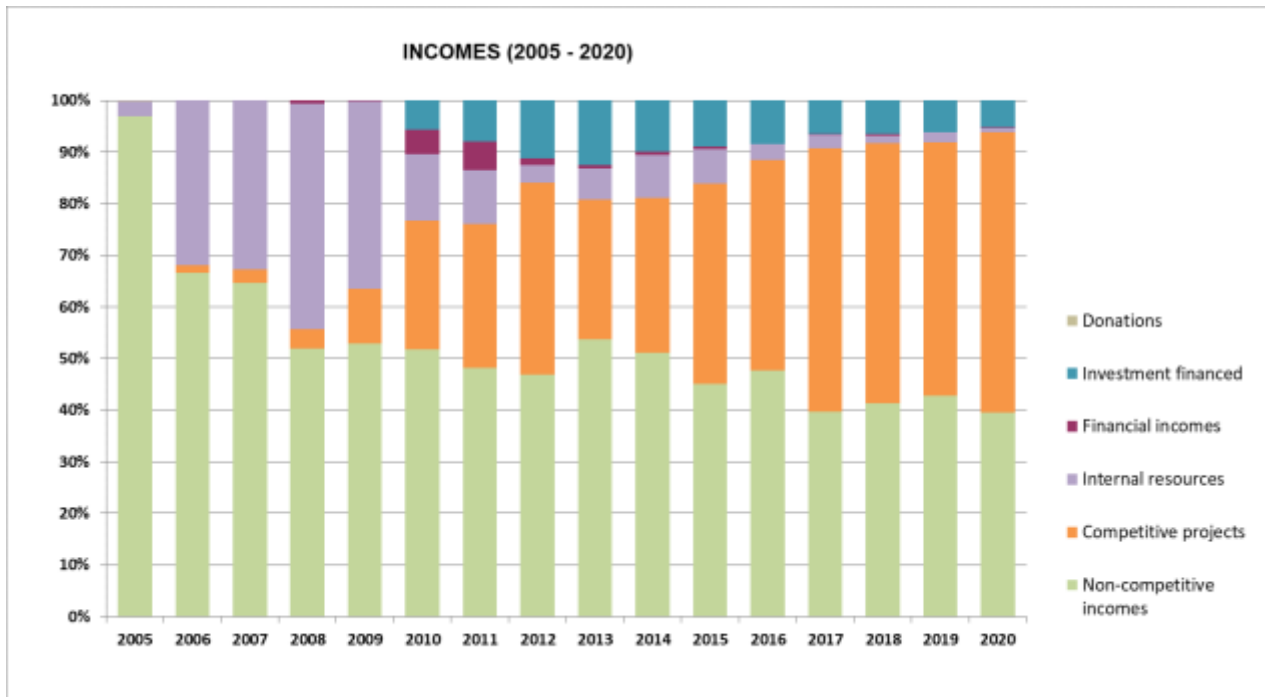
2020. You can see further information on the Chapter *“Xarxa de municipis IPHES”* of the report, entirely devoted to this issue.



To give some data and figures related to the core activities of the Management Area, the IPHES team is made up of 65 members, of which 43 are researchers.



The budget for the IPHES 2020 has been around 3 million euros, pending settlement. It is necessary to emphasize the importance of the competitive income, at the moment majority, as it shows the orange bar of the following graph.



IPHES historicum bar chart

Staff

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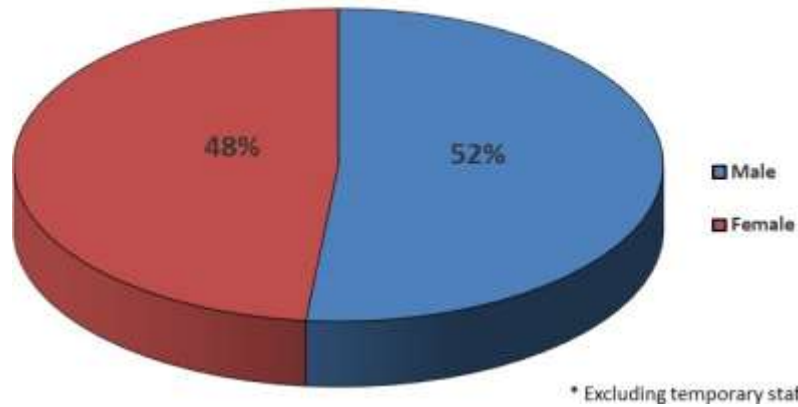
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TEMPORARY STAFF FUNDED BY PROJECT (Full Time Equivalent = 1 people)

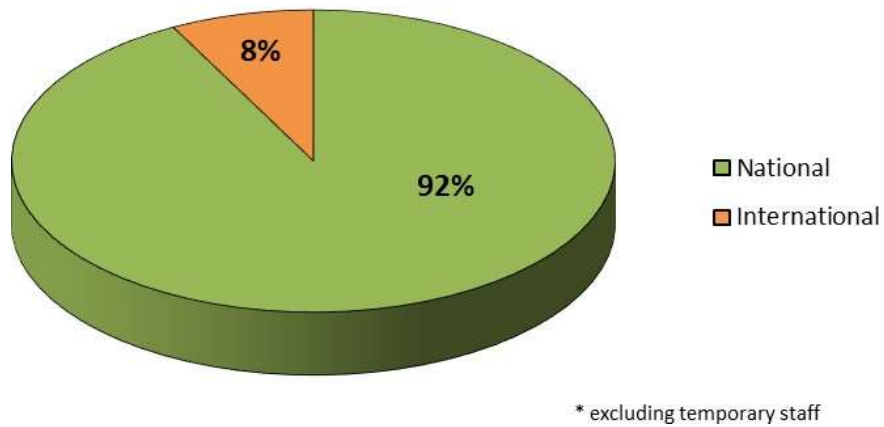
Name	Name
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Gómez Morgado, Laura	Pineda Alcalá, Antonio
Jiskoot Busquets, Júlia	Soto Quesada, María Luisa
Morch, Lou Octavia	Valtierra Pereiro, Noé

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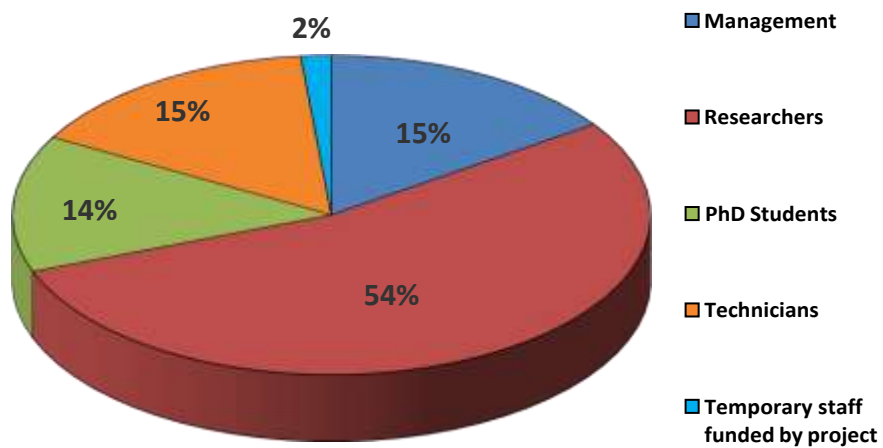
Staff* distribution by Gender



Staff* distribution by Geography



Staff* distribution by Areas



* Temporary and Permanent staff (FTE)

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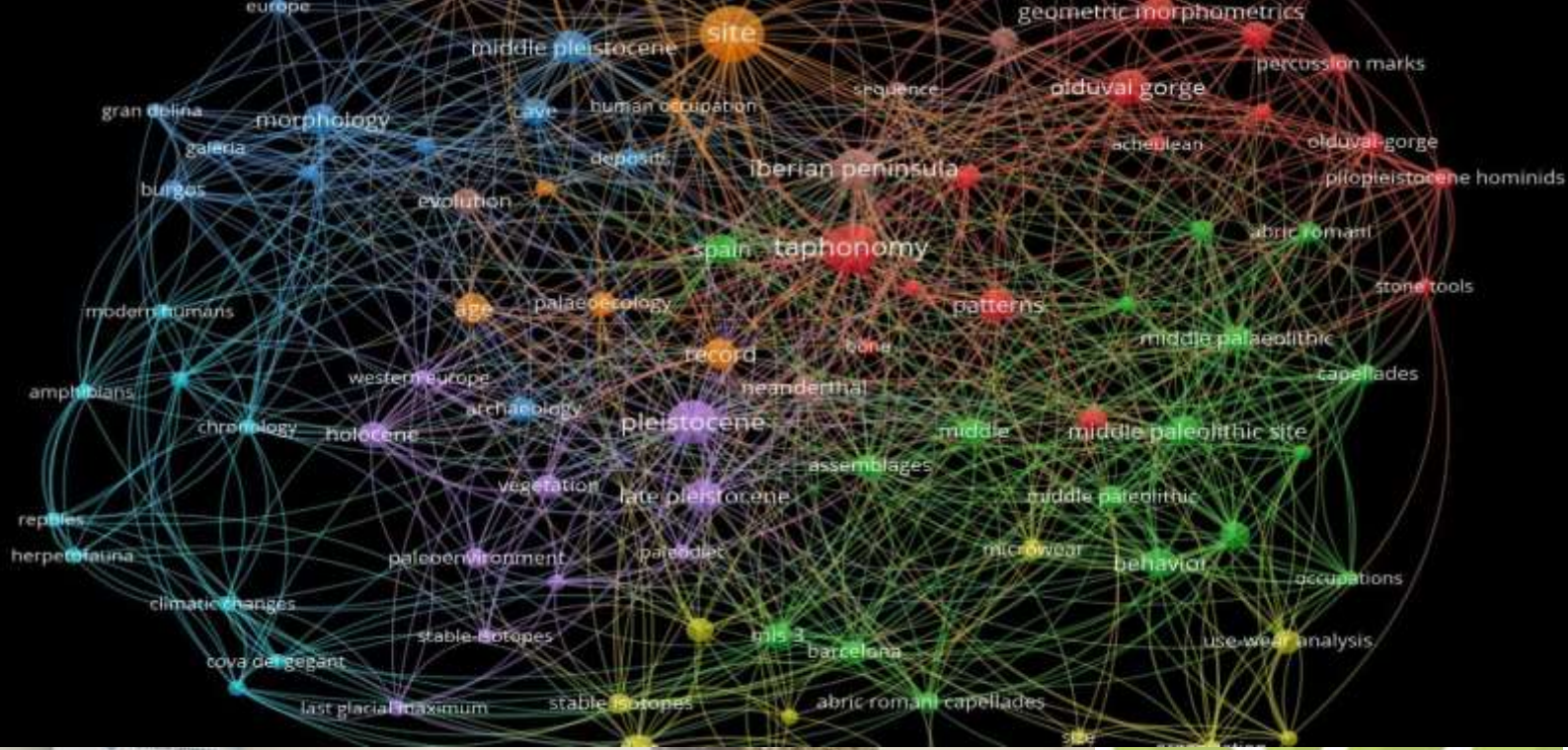
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Research



3rd Meeting of the ICAZ Microvertebrate Working Group
 September 1st – 2nd 2020
 Tarragona (Spain)



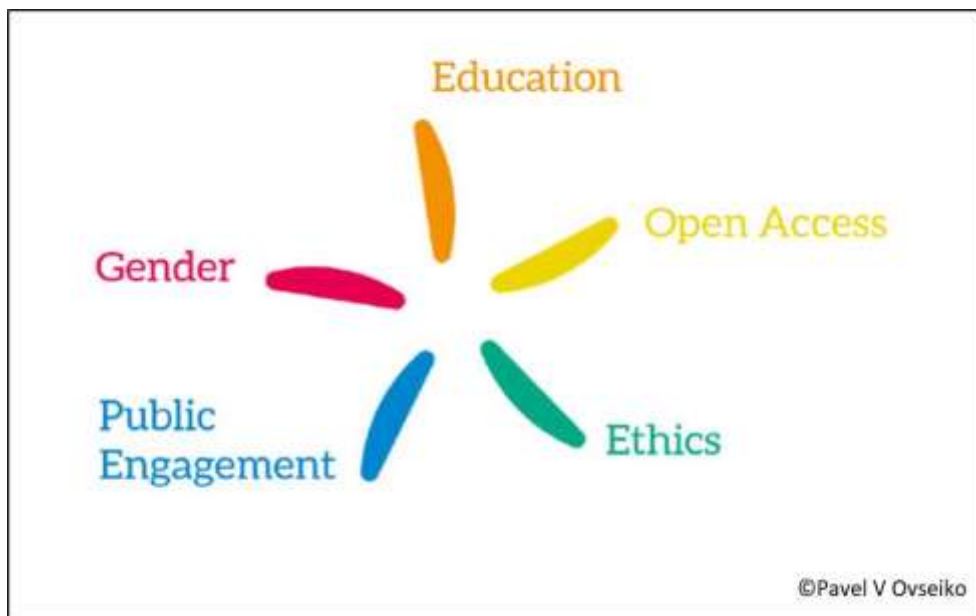
Responsible Research and Innovation (RRI)

Since its origins, IPHES has been aware of the importance of bridging the gap between research and society, being a pioneering institution in the socialization of research in human evolution and paleoecology.

Therefore, IPHES is also responsive of the incorporation of the Responsible Research and Innovation (RRI) perspective in their activities, fostering the alignment of its research with the needs, values, and societal expectations through an open, respectful, inclusive and stakeholder's involvement research. For this purpose, and in the framework of its recognition as a Maria de Maeztu excellence unit, IPHES has created a RRI Committee to encourage the embedding of the 6 policy agendas in its research process to face the great social challenges.

In this spirit, IPHES also establishes its commitment to the Agenda 2030 and the incorporation of the ONU Sustainable Development Goals (SDG) in its research lines and activities.

During 2020 IPHES has been developing different main guidelines and specific actions related to RRI key policies, listed below:



Gender

The gender's mainstreaming strategy at IPHES is implemented through three main action points:

- Under the umbrella of IPHES Human Resources Strategy for Researchers (HRS4R) Action Plan, IPHES follows a **Plan for Equal Opportunities for Women and Man** (<http://www.iphes.cat/gender-equality-plan>) to eliminate the bias in the recruitment, formation, and access to leadership positions between genders as a strategic axis in achieving greater efficiency, innovation, creativity, and competitiveness. IPHES has also an **Equality Commission**

and a procedure for resolving sexual and sex harassment conflicts at workplace (<http://www.iphes.cat/conflict-resolution-procedure>).

Actions:

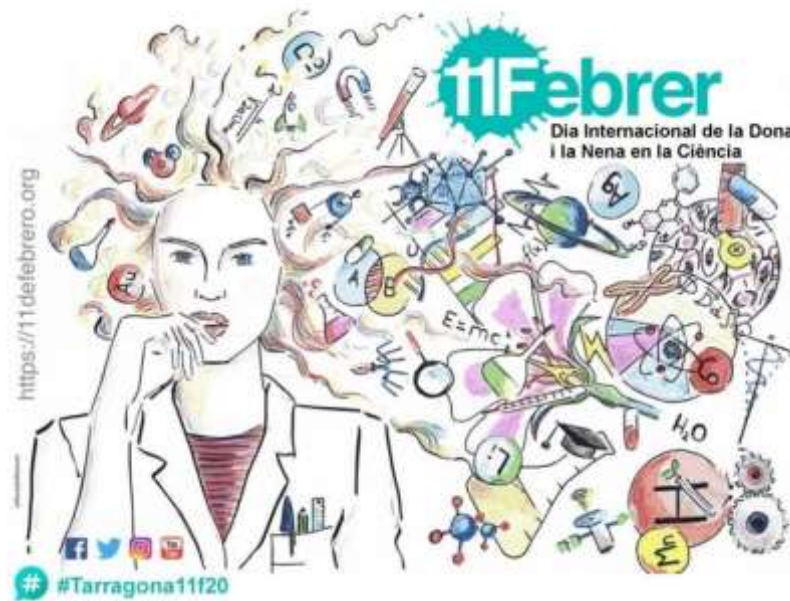
- Development and dissemination among IPHES staff of the guide: “Resources for non-sexist language”. Catalan, Spanish and English versions.
 - Training courses in gender issues done by members of the Equality Commission:
 - “Perspectiva de gènere en els projectes. Introducció” (Departament de Treball, Afers Socials i Famílies, Generalitat de Catalunya).
 - “Perspectiva de gènere en els projectes. Disseny, avaluació i seguiment” (Departament de Treball, Afers Socials i Famílies, Generalitat de Catalunya).
 - “Detecció i actuació de casos de violència contra la dona a la URV” (Universitat Rovira i Virgili).
 - “Jornada per incorporar la perspectiva de gènere en Humanitats” (Universitat Rovira i Virgili).
- Fostering the gender dimension integration in its research. In particular, exploring different lines of research that include biological sex as a proxy for gender to understand shifts of sex/gender-based divisions of labour.

Actions:

- Publication: **Lozano, M.**; Jiménez-Brobeil, Sylvia A.; Willman, John C.; Sánchez-Barba, Lydia P.; Molina, Fernando; Rubio, Ángel. 2020. Argaric craftswomen: sex-based division of labor in the Bronze Age southeastern Iberia. *Journal of Archaeological Science*
 - Participation in workshop: “Jornades sobre la perspectiva de gènere a la recerca” (URV) with the project “The effect of fuel uses on past landscapes and human health”
 - Attendance of the workshop: “Sex and gender dimension in frontier research” (ERC) (erc.europa.eu/event/sex-and-gender-dimension-frontier-research)
- Making gender topics in prehistory and women scientists more visible through different events and programmes.

Actions:

- Participation through several activities at the international event: “Dia de la nena i la dona en ciència”
- Participation of five women researchers of IPHES at the program: URV Inspira STEAM
- Video: “Dones i caça major a la prehistòria, amb Marina Lozano” <https://pindoles-dantropologia.aixeta.cat/ca>
- Video: “i les dones feien eines?” www.youtube.com/watch?v=m56OgJRc_18&t=6s



Ethics

IPHES pursues the application of the **ethical principles** in research (considering the standards of research integrity -as set out, for instance, in the European Code of Conduct for Research Integrity-), including aspects as honesty, rigour, transparency and quality in research, and in particular avoiding falsification, plagiarism or other research misconduct.

In this context, it must be noted that IPHES has been recognised with **HR Excellence in Research** mention, that supports its commitment with the European Charter for Researchers and Code of Conduct for the Recruitment of Researchers, adopting the standards of the European Commission in Human Resources (www.iphes.cat/otm-r) and consequently providing a favourable working environment for research with equal opportunities, ethical integrity, and work-life balance.

Concerning to IPHES ethical issues in research lines, it should be mentioned that the specific area in human cognition implies the ethical considerations related to research on non-human primates. Thereon, it must be highlighted that this research is developed from an ethologic perspective, collaborating, and respecting the legal and ethical guidelines of *Fundació Mona* (fundacionmona.org/ca/investigacion-y-cursos).

Open access

IPHES Data Management Plan strategy is being developed under FAIR requirements. The aim is to increase the free access to IPHES main resulting data through its uploading in specific databases and its packaging in plain interoperable formats to be uploaded in the public European repository Zenodo (zenodo.org/) as is used by “OpenAIRE” (www.openaire.eu) and recommended by FECYT “Recolecta” (recolecta.fecyt.es), being they curated by these platforms and available under Creative Commons (CC-BY/CC-NC) license to be further free reused by other researchers for non-commercial uses. Furthermore, IPHES is promoting an open-access strategy

of publishing in combining peer-reviewed scientific publications in Gold Open Access (1st decile open-access journals for high impact publications) and Green Open Access (non-commercial version of publications available in our institutional repositories) in accordance with the concerned editorial policies, in our respective institutional repositories (repositori.urv.cat; roderic.uv.es; eprints.ucm.es) all already covered by Recolecta.

Actions:

- Has been published 49 articles in different Open Access options (see page 60 for more details).
- Reshaping of the IPHES web www.evolucionaria.org to make available to educational community a wide range of didactical materials (educational booklets, images, short videos, etc.) related to prehistory and human evolution.

Scientific education

IPHES through its annual educational programs promote science education and scientific vocations among students. This includes both own activities and others carried out in collaboration with some institutions. The programs, that since 2015 has benefited about 6.100 primary and secondary students, is designed to achieve two main objectives:

- To foster a knowledge-based society promoting scientific careers among high school and primary school students, especially girls, and those at risk of social exclusion. Running programs: “*Iphes a les Escoles*”, “*Les Escoles a l’IPHES*”, “*IPHES als Barris*” (FCT-1813614-own programs) and “*Extended learning time*” (FCT-18-13515) in collaboration with Rovira i Virgili University (URV).
- To contribute to overcome social, economic, and educational inequalities not just through H2020 objectives for education and fighting poverty and social exclusion targets, but also through EU 2030 Agenda for Sustainable Development Goals (SDGs) (aligned with SDG 4.1, 4.3, 4.5 and 5.5). The strategy is based on building learning communities (engaging families and civil associations) in alliance with research group MEDIS (URV).

Actions:

- Development of the scientific education own program granted by FECYT (FCT-18-13614): IPHES a les escoles (subprogrammes “*Les Escoles a l’IPHES*” and “*IPHES als Barris*”). (See page 151 for more details)
- Participation in the educational program of MEDIS-URV and granted by FECYT (FCT-18-13515): *Extended Learning Time III: contribuyendo a generar vocaciones científicas en centros tutelados*” (See page 153 for more details)

Public engagement

IPHES is developing different actions to involve a wide range of stakeholders that may be drivers, users, or beneficiaries its research. In this regard IPHES has created the “Xarxa de Municipis IPHES”, a net of entities that manage archaeological sites included in IPHES research projects, as City Councils, cultural civil entities, and other public and private bodies. With these entities IPHES has been stablishing a strategy of “municipalization of science” with the objective of collaborate in archaeological fieldwork and research, boost outreach and public participatory activities and develop co-creation process directed to the management and social enhancement of the archaeological sites and prehistoric heritage.

Actions:

- Project development: PO FEDER Catalunya 2014-2020. “Rambla Science: rehabilitació de l’antic edifici del Banc d’Espanya, per a la creació d’un espai de referència internacional de la co-creació i divulgació de la ciència i de la transferència del coneixement a través de la creativitat i del descobriment”, (City Council of Tarragona in collaboration with URV, ICIQ, ICAC, IISPV and IPHES). The project is oriented toward building a public space to discover science through living experiences, events, educational programs and to create a place of deliberating on matters of science and technology, co-creating research and innovation outcomes and providing input to local and regional policy agendas.

Research Groups

Human Palaecology in the Plio-Pleistocene (PalHum)

Principal investigator: Dr. Hugues-Alexandre Blain.

Researchers: Dr. Jordi Agustí, Dr. Deborah Barsky, Dr. Gerard Campeny Vall-llosera, Dr. Antoni Canals, Dr. Bruno Gómez de Soler, Dr. Policarp Hortolà, Dr. Bienvenido Martínez-Navarro, Dr. Tsegai Medin, Dr. Josep Maria Prats, Dr. Robert Sala and Dr. Josep Vallverdú.

PhD students: Almudena Martínez Monzón, Mihailo Jovanović, Madhavi Kuniath, Moncef-Said Mtimet and Avinandan Mukherjee.

Support to research staff: Bernat Sentis, Marta Fontanals, Elena Moreno Ribas, Dr. Ana Fagoaga and Miguel Soares Ramiseiro.

Collaborations: Dr. Iván Lozano-Fernández, Dr. Pedro Piñero, Dr. María Luisa Soto Quesada, Dr. Sandra Bañuls Cardona, Dr. Souhila Roubach, Dr. Mónica Fernández García, Dr. Josep Francesc Bisbal-Chinesta, Dr. Mohamed Azaza, F.J. García Vadillo, Ángel Blanco Lapaz, Francisco Javier Luengo Gutiérrez, Adrià Escuté, Estefanía Tilton and Akinbowa Akintayo.

Reference: SGR 2017 859

The objectives of PalHum focus on establishing the context of the Pleistocene human migration in the Mediterranean area from a triple approach: 1. the global climatic changes as a forcing factor on hominin dispersal timing and mode; 2. hominids-carnivores coevolution and interactions and their implication for dispersal/subsistence, and 3. the study of techno-behavioral compartments (Acheulean vs. Oldowan) and their implications for population replacement, and/or cultural transmission across the Mediterranean. All three aspects, technological innovation, climate evolution and associated faunal interactions have acted as significant drivers in the different episodes of human dispersal from the Pliocene to Middle Pleistocene.

Then in addition to these objectives, PalHum formalized for the new period (2017-2021) a fourth emergent objective: the investigation of the social and economic impact of our scientific research at Barranc de la Boella (La Canonja, Tarragona) and Camp dels Ninots (Caldes de Malavella, Girona).

Thus research topics are as follow:

A. Human and faunal dispersals during the Quaternary: Tempo and Mode

A1. Pliocene and Pleistocene Eurasian faunal dispersals

A2. Biochronology of the first hominid remains into Mediterranean area and abroad

- A3. First human settlements in Eurasia, Northern Africa, and Horn of Africa
- A4. Paleoenvironmental and paleoclimatic context of first hominid dispersal

B. Hominines-Carnivores interactions

- B1. Hominids-Sabertooths coevolution (*Meganteron whitei*)
- B2. Hyenas-Hominids interactions (*Pachycrocuta brevirostris*, *Crocuta crocuta* and *Hyena hyena*)
- B3. Interaction with social carnivores (*Lycaon lycaonoides*)

C. Early Technological Behavior (Oldowan vs. Acheulean)

- C1. Stone Tools (Raw Materials, Lithic Technology, Use-Wear/Residue Analyses)
- C2. Information Systems in archaeo-paleontological sites: social and spatial behavior
- C3. Dispersal/Transmission of techno-cultural innovations

D. Heritagization of the archaeo-paleontological record

- D1. Non-formal scientific education in geosciences and the archaeological record as a source of young public engagement of science
- D2. Monitoring the cultural equipment, including how to communicate or transfer archaeo-paleontological contents in order to build sustainable infrastructures

We approach these questions through work at different paleontological and archaeological sites (underlined when led) from Eastern Africa to Western Eurasia and the Mediterranean Basin:

- 1) **Pliocene:** Camp dels Ninots (Spain), Baza (Spain).
- 2) **Early Pleistocene:** Barranco León and Fuente Nueva 3 (Spain), Quibas (Spain), La Boella (Spain), Bois de Riquet (France), Pirro Nord (Italy), Ain Beni Mathar and Guefaït Basins (Morocco), Oued Sarrat Basin (Tunisia), Ternifine (Algeria), Dmanisi (Georgia), Bizat Ruhama (Israel), Engel Ela-Ramud Basin and Danakil Depression (Eritrea).
- 3) **Middle Pleistocene:** Cova dels Xaragalls (Spain), Santa Ana Cave (Spain), N'gaous (Algeria), Caune de l'Arago (France), Azokh Cave (Nagorno Karabagh).

Concerning **knowledge transfer**, PalHum is consolidating and strengthening the ongoing activities related with heritage valorisation of paleontological and archaeological sites, both in Catalonia and abroad.

On one hand, the research group is leading, together with local and provincial administration, the scientific advice and contents of the tourist route and the construction of the visitor centre around the Camp dels Ninots paleontological site. These activities are co-funded by the *Strategic Plan for Touristic Development 2013-2016* of Catalonia, *Heritagization Plan* of Catalonia and the City Council of Caldes de Malavella.

On the other hand, the group is also leading the heritagization process of Barranc de la Boella archaeological site, which has become part of the "TurisTic en família" project within the Regional Innovation for Smart Strategic Specialization of Catalonia (RIS3CAT), incorporating local

and provincial administration stakeholders (Ajuntament de La Canonja, Diputació de Tarragona). This project allows PalHum to advise, provide contents and monitor the design of a prehistoric experience to boost cultural tourism, contributing to the development of the experience economy in *Costa Daurada*, an important family tourism destination of Tarragona province.

Furthermore, the research results of the group related with the archaeological sites of the Guadix-Baza Basin (Granada, Andalusia) is continuing to provide advice and updated contents to the new Centro de Interpretación de los Primeros Pobladores de Europa (Orce, Granada), co-funded by ERDF funds. And finally, at an international level, the group is following on with the research and knowledge transfer collaboration for the development of the National Museum of Georgia and Université Mohammed Premier Oujda for valorisation of Dmanisi archaeological sites and the archaeological heritage of Eastern Morocco, respectively.

Group of Analyses on Socio-ecological Processes, Cultural Changes and Population dynamics during Prehistory (GAPS)

Principal investigator: Dr. Ethel Allué.

Researchers: Dr. Marian Berihuete, Dr. Sandra Bañuls, Dr. Francesc Burjachs, Dr. M. Gema Chacón, Dr. Juan Manuel López-García, Dr. Ignasi Pastó, Dr. Jordi Revelles, Dr. Florent Rivals, Dr. Jordi Rosell, Dr. Carlos Tornero and Dr. Manuel Vaquero.

PhD students: Susana Alonso, Maite Arilla, Sabrina Bianco, Aitor Burguet-Coca, Juan Ignacio Martín-Viveros, Ivan Ramírez and Carlos Sánchez.

Technical staff: Irene Cazalla, Celia Díaz-Canseco, Isabel Expósito, Núria Ibáñez and Gala Gómez-Merino

Collaborations: Leopoldo Pérez, Céline Kerfant, M. Fernanda Martínez-Polanco

Reference: 2017 SGR 836

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, lithic technology, zooarchaeology, taphonomy, palaeontology, archaeobotany, spatial analysis, symbolic expression and computational models.

The group is composed by 11 researchers, 5 technicians and 7 doctoral students. The core of the research group is formed by four researchers with tenured research positions (Ethel Allué [group coordinator]; M. Gema Chacón, Ignasi Pastó; Jordi Rosell and Manuel Vaquero, two ICREA research Professors (Francesc Burjachs and Florent Rivals), and one tenure-track researcher: Juan Manuel López-García .

In the group, there have been several incorporations of young researchers as a result of public competitive Spanish and European calls. These researchers are integrated in the group providing new challenges to our strategic objectives. Sandra Bañuls, PhD (Juan de la Cierva Formación) develops research based on paleoenvironmental setting during the Holocene based on microvertebrates. Research on palaeoclimate based on palynology including microcharcoal, pollen and NPP is being developed by Jordi Revelles, PhD (postdoctoral researcher Juan de la Cierva Formación), and research on underground storage organs related to hunter gatherer food practices is carried out by Marian Berihuete, PhD (postdoctoral researcher Beatriu de Pinós Fellow). Finally, Carlos Tornero, PhD (Beatriu de Pinós Fellow) has integrated biogeochemical

analyses to improve our understanding of domestication process regarding livestock economy and husbandry.

Additionally, the team includes 8 pre-doctoral students (Susana Alonso, Sabrina Bianco, Aitor Burguet-Coca; Juan Ignacio Martín Viveros, Carlos Sánchez, Iván Ramírez, Maite Arilla) from different grants schemes (primarily MEC - FPU, FI AGAUR, Fundación Atapuerca, Fundació La Caixa). Three of which defended their PhD in 2020.

The group also rely on 3 technicians providing support for archeobotany (Isabel Expósito), archeological collections (Núria Ibáñez), and conservation (Gala Gómez Merino). At the end of 2019, 2 technicians joined the group through the PEJ program (Programa de Empleo Juvenil).

The research group is aimed at studying the cultural and behavioral changes, the ecology and population dynamics of Neanderthals and modern humans from the final Middle Pleistocene to the early Holocene. During this period, three major processes took place: 1) the origin of Neanderthal behavior; 2) the Middle to Upper Paleolithic transition and 3) the beginning of a productive economy. The 6 main strategic objectives encompassing the specific challenges are inter-linked with other ongoing projects leaded or participated by the members' Group.

1. Technology and material culture.
2. Subsistence strategies.
3. Spatial analysis.
4. Paleoenvironment.
5. Quantitative modelling.

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:

The members of the group participate in different Spanish excavations, both at fieldwork and studying materials:

- Middle Paleolithic: 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, Balma de la Griera, El Salt
- Upper Paleolithic: Molí del Salt, Costa de Can Manel, Abric de la Consagració, Cova de Valdavara, La Cativera, Balma de la Vall, Cova de les Borres, Cova Foradada, Cova dels Xaragalls
- Mesolithic: Abric Agut, Casa Corona.

- Neolithic: El Mirador, Cova de la Font Major, El Cavet, Cova Colomera, El Arenal, Cova 338.

Moreover, the following international projects and collaborations are being developed:

- Europe: Collaboration studies in prehistoric Balkans (Serbia and Montenegro), the Caucasus (Georgia, Armenia and Nagorno-Karabakh), and Grotta Rio Secco, Grotta del Cavallo, Riparo Bombrini, Balzi Rossi and Vallone Inferno (Italy).
- Africa: Project on the Pleistocene human occupations at the Eastern Morocco: Ain Beni Mathar and Guéfaït region. Principal Investigators M. Gema Chacón and Hassan Aouraghe.
- Middle East: Collaboration in the frame of zooarcheological and archeobotanical research at Qesem Cave, Jordan River Dureijat and Nesher Ramla (Israel).
- South-East Asia: Participation in the Project MARCHE - Mission Archéologique aux Philippines Origine, nature et diversité des premiers peuplements des Philippines. Site of Kalinga (Rizal, Isla de Luzón, Philippines).

The organization of our group permits to confront the challenges and scientific objectives. The number of researchers and their careers join in an interdisciplinary critical mass with high capabilities to produce new synergies and to successfully compete in European calls, as has been already exposed and achieved along the 3 last years.

Social, cultural and biological evolution during the Pleistocene (StEP)

Principal investigator: Dr Andreu Ollé.

Researchers: Dr Adrián Arroyo, Dr Ana Maria Bucchi, Dr Isabel Cáceres, Dr Eudald Carbonell, Dr Beatriz Gamarra, Dr Gizéh Rangel de Lázaro, Dr Rosa Huguet, Dr Miquel Llorente, Dr Esther López, Dr Carlos Lorenzo, Dr Marina Lozano, Dr Jordi Marcé, Dr Marina Mosquera, Dr Antonio Pineda, Dr David Riba, Dr Xosé Pedro Rodríguez, Dr Palmira Saladié, Dr Laxmi Tumung, Dr Josep Maria Vergès and Dr John Willman.

PhD students: Andión Arteaga, Antonietta Del Bove, Andrea Díaz, Raquel Hernando, Diego Lombao, Paula Mateo, chiara Messana, Miguel Ángel Moreno and Alfredo Suesta.

Technical staff: Dr Lena Asryan, Dr Lucía López-Polín, Miquel Guardiola, Maria Dolors Guillén and Edgar Téllez.

Collaborators: Dr Amèlia Bargalló, Dr. Arturo de Lombera, Dr Paula García-Medrano, Dr Juan Marín, Dr Patricia Martín, Dr Antonella Pedergnana, Dr Antonio Rodríguez, Dr Boris Santander, Dr Marcos Terradillos, Arturo Cueva, Héctor del Valle, Juan Luis Fernández, Francesc Marginedas, Juan Ignacio Martín Viveros, Noé Valtierra, Görkem Cenk Yesilova and Raquel M. Pérez.

Reference: 2017 SGR 1040

The research of this group, “Social, Cultural and Biological Evolution during the Pleistocene”, aims to study Human Evolution on its biological, social and technological developments in the Pleistocene (although younger contexts are also studied). The main areas of research are palaeoanthropology, lithic technology, zooarchaeology and taphonomy, early human cognition (etoprimatology and cognitive technology), and preparation and conservation of archaeopalaeontological materials. Its approach is based on a strong investment in fieldwork and in the systematic analysis of the recovered materials to gather reliable empirical data, and on original experimentation as a part of testable procedures.

During 2020, the group headed by Dr Andreu Ollé Cañellas has been composed of 35 members: 13 IPHES-URV staff, 2 researchers from other institutions (Univ. Girona), 2 postdoctoral researchers (JdIC and BP-MS), 9 predoctoral students from national and international grant schemes (3 FPU-MICIUN, 2 FI-AGAUR, 1 FPI-MICIUN, 1 PMF-URV, 1 Gov. Navarra, 1 Italian Gov.), 3 technicians (1 PTA-PhD- and 2 PEJ) and 6 associate researchers currently ascribed to other institutions (UCM, NHM and Univ. Coimbra) or with expired grants that remain close collaborators. Furthermore, there are 17 regular collaborators (9 of them PhD). In 2020 four PhD Thesis have been defended inside the group (A. Bucchi, A. de Lombera, E. López and J. Marín).

The research topics of this group share the same general empirical framework based on the different fieldwork projects led or specifically participated by their members, both in Spain and abroad. Although the fieldwork activity has been significantly reduced in 2020 because of the limitations deriving from the COVID-19 pandemic. Those projects include:

In Spain:

- ❖ The archaeo-paleontological complex of the Sierra de Atapuerca (Burgos), especially the Pleistocene sites cave sites of Sima del Elefante, Gran Dolina, Galería, Sima de los Huesos and Cueva Fantasma, as well as the Pleistocene-Holocene rock shelter site of El Mirador.
- ❖ The Lower Pleistocene sites of the Guadix-Baza Basin (Granada): Fuente Nueva 3 and Barranco León.
- ❖ The Lower Pleistocene site of Quibas (Murcia).
- ❖ The Pleistocene sites of the Calerizo de Cáceres (Cáceres): Cueva de Santa Ana and Cueva de Maltravieso.
- ❖ The Pleistocene and Holocene sites included in the project “Evolució paleoambiental i poblament prehistòric al Projecte Francolí, Gaià, Siurana i rieres del camp de Tarragona”: Barranc de la Boella, la Cansaladeta, Cova dels Xaragalls, les Borres, la Cativera, Cantacorbs, Cova del Cudó, el Cavet, Cova de la Font Major and surveys at la Bauma de la Vall and Mas d’en Llord (Tarragona).
- ❖ The Upper Pleistocene site of Abric Romaní (Barcelona).
- ❖ The Upper Pleistocene site of Cova Gran de Collbató (Barcelona).
- ❖ The Upper Pleistocene site of Cova de Simanya (Barcelona).
- ❖ The Upper Pleistocene site of Cova del Parco (Lleida).
- ❖ The Upper Pleistocene sites of Abrigo de Navalmaíllo and Cueva Des-cubierta at Pinilla del Valle (Madrid).
- ❖ The Upper Pleistocene site of El Sidrón (Oviedo).
- ❖ The Upper Pleistocene site of Cueva de Guantes (Palencia).
- ❖ The Upper Pleistocene site of Cova Foradà (Valencia).
- ❖ The Upper Pleistocene site of Cova de Dalt del Tossal de la Font (Castelló de la Plana).
- ❖ The Upper Pleistocene site Cova Eirós (Lugo).
- ❖ The Upper Pleistocene sites included in the project “Substitucions humanes i transformacions econòmiques entre el Pleistocè superior final i l’Holocè al Penedès”: Balma de la Griera and Cova Foradada (Tarragona) and Cova del Mas Trader (Barcelona).
- ❖ The Holocene site of Guixeres de Vilobí (Barcelona).
- ❖ The Holocene site of Roc de les Orenetes (Girona).

International

- ❖ The Pliocene, Lower and Middle Pleistocene sites of Aïn Béni Mathar-Guéfaït (Morocco).
- ❖ The Plio-Pleistocene and Lower Pleistocene sites of Gona (Ethiopia).

- ❖ The Early Pleistocene Engel-Ela and Ramud basin sites (Eritrea).
- ❖ The Early to Upper Pleistocene sites at Olduvai Gorge (Tanzania).
- ❖ The Early and Middle Pleistocene sites of Ain Boucherit, Ain Hanech, El-Kherba and Ternifine (Algeria).
- ❖ The Middle and Upper Pleistocene site of Azokh (Nagorno-Karabakh).
- ❖ The Upper Pleistocene sites in the Khorramabad Valley (Iran).
- ❖ The Upper Pleistocene sites of the survey at the Kura-Arax depression / Vorotan River Valley (South Caucasus).
- ❖ The Late Pleistocene - Holocene sites in the Madonie Park (Sicily, Italia)

Research projects hosted by IPHES

Regional funded Quadrennials Research projects in archaeology and palaeontology

Arrels prehistòriques de la transhumància a l'Alt Ripollès: Projecte Arqueològic 2018-2021

Principal investigator: Carlos Tornero

Call: Projectes de recerca quadriennals en matèria d'arqueologia i paleontologia

Funder: Departament de Cultura, Generalitat de Catalunya

Period: 01/01/2018 - 31/12/2021

Reference: CLT009/18/00048

El Plio-Pleistocè del Camp dels Ninots i la depressió Prelitoral: evolució paleoclimàtica, dispersions faunístiques i humanes II

Principal investigator: Bruno Gómez de Soler

Call: Projectes de recerca quadriennals en matèria d'arqueologia i paleontologia

Funder: Departament de Cultura, Generalitat de Catalunya

Period: 01/01/2018 - 31/12/2021

Reference: CLT009/18/00052

Evolució paleoambiental i poblament prehistòric a les conques dels rius Francolí, Gaià, Siurana i rieres del Camp de Tarragona (2018-2021)

Principal investigator: Josep Maria Vergès

Call: Projectes de recerca quadriennals en matèria d'arqueologia i paleontologia

Funder: Departament de Cultura, Generalitat de Catalunya

Period: 01/01/2018 - 31/12/2021

Reference: CLT009/18/00053

Cinglera del Capelló 2018-2021

Principal investigator: Josep Vallverdú

Call: Projectes de recerca quadriennals en matèria d'arqueologia i paleontologia

Funder: Departament de Cultura, Generalitat de Catalunya

Period: 01/01/2018 - 31/12/2021

Reference: CLT009/18/00054

Neandertals i carnívors: una història compartida

Principal investigator: Jordi Rosell

Call: Projectes de recerca quadriennals en matèria d'arqueologia i paleontologia

Funder: Departament de Cultura, Generalitat de Catalunya

Period: 01/01/2018 - 31/12/2021

Reference: CLT009/18/00055

Spanish Projects

Snapshots of Neanderthal lifestyles: Behavioural patterns and high resolution archaeology (2)

Principal Investigator: Florent Rivals and Manuel Vaquero

Call: Proyectos I+D de Generación de Conocimiento

Funder: Ministerio de Economía y Competitividad, Gobierno de España

Period: 30/12/2016 –31/12/2020

Reference Code: HAR2016-76760-C3-1-P

Study of the Early Pleistocene faunal and human dispersals in the Mediterranean basin

Principal Investigator: Bienvenido Martínez-Navarro and Robert Sala

Call: Proyectos I+D de Generación de Conocimiento

Funder: Ministerio de Economía y Competitividad, Gobierno de España

Period: 30/12/2016 – 31/12/2020

Reference Code: CGL2016-80975-P

Environmental dynamics and human responses during the postglacial in the facade Mediterranean Iberian Peninsula (C. 12700-8000 CAL. BP)

Principal Investigator: Francesc Burjachs and Javier Fernández-López de Pablo

Call: Proyectos I+D de Generación de Conocimiento

Funder: Ministerio de Economía, Industria y Competitividad, Gobierno de España

Period: 01/01/2018 - 31/12/2020

Reference Code: HAR2017-88503-P

Eco-Social behaviour of the Sierra de Atapuerca Hominins during Quaternary, V

Principal Investigator: Eudald Carbonell and Marina Mosquera

Call: Proyectos I+D de Generación de Conocimiento

Funder: Ministerio de Ciencia, Innovacion y Universidades, Gobierno de España

Period: 01/01/2019 –31/12/2021

Reference Code: PGC2018-093925-B-C32

Neanderthal behaviour and paleoecology in Mediterranean ecosystems

Principal Investigator: Florent Rivals and Manuel Vaquero

Call: Proyectos I+D de Generación de Conocimiento

Funder: Ministerio de Ciencia y Innovacion, Gobierno de España

Period: 01/06/2020 - 31/05/2023

Reference Code: PID2019-103987GB-C31

Estudio arqueológico y paleontológico del Plio-Pleistoceno de la cuenca de Engel Ela-Ramud, depresión de Danakil (Eritrea)

Principal Investigator: Bienvenido Martínez-Navarro

Funder: Ministerio de Cultura y Deporte (MCD)

Period: 11/12/2019 - 06/02/2021

Reference Code: 7 / T002019N0000035905

Evolución del poblamiento humano durante el Cuaternario en Marruecos Oriental: Aïn Beni Mathar – Guefaït (Provincia de Jerada)

Principal Investigators: María Gema Chacón, Robert Sala

Funder: Ministerio de Cultura y Deporte (MCD)

Period: 11/12/2019 - 06/02/2021

Reference Code: 170 / T002019N0000038589

Evolución del poblamiento humano durante el Cuaternario en Marruecos Oriental: Aïn Beni Mathar – Guefaït (Provincia de Jerada)

Principal Investigators: María Gema Chacón, Robert Sala

Funder: Fundación Palarq

Period: 10/01/2020 - 31/12/2021

[Other Projects](#)

Lower Paleolithic Spheroids Project (LPSP)

Principal Investigator: Deborah Barsky

Host Institution: IPHES and The Hebrew University of Jerusalem (Israel) - Computational Archaeology Laboratory

Funder: Gerda Henkel Foundation

Period: 01/01/2020 – 31/12/2021

Reference Code: w/o

[Research actions & studies](#)

Estudios de los registros pleistocenos de la cuenca de Engel Ela-Ramud, Eritrea

Principal Investigator: Bienvenido Martínez-Navarro

Funder: Fundación Palarq

Period: 21/11/2019 - 31/12/2021

Faunistic and paleoenvironmental context of the Quibas deposit in relation to the climatic evolution of the Lower Pleistocene and the first human settlement of Europe

Principals Investigators: Jordi Agustí and Pedro Piñero

Call: Subvenciones para la investigación e intervención en el patrimonio arqueológico y paleontológico de la Región de Murcia

Funder: Comunidad Autónoma de la Región de Murcia (CARM)

Period: 30/05/2019 - 30/05/2021

Reference Code: ARQ 115/2018

Isotopic study of the funeral tomb of the Cave of Es Pas: reconstruction of the food pattern of Menorca 3000 years ago

Principal Investigator: Carlos Tornero

Call: Beques d'investigació de l'Institut Menorquí d'Estudis

Funder: Institut d'Estudis Menorquins (IME)

Period: 03/07/2019 - 30/06/2021

Prehistoria y trashumancia en el Alt Ripollès

Principal Investigators: Carlos Tornero and Eudald Carbonell

Call: Ayudas para la aplicación de metodologías y técnicas de las ciencias experimentales/analíticas en arqueo-paleontología

Funder: Fundación Palarq

Period: 30/09/2019 - 31/12/2020

Fabricación de láminas delgadas de gran formato para el estudio micro estratigráfico de las estructuras de combustión del nivel Q de l'Abric Romaní de Capellades

Principal Investigator: Josep Vallverdú

Call: Ayudas para la aplicación de metodologías y técnicas de las ciencias experimentales/analíticas en arqueo-paleontología

Funder: Fundación Palarq

Period: 24/10/2019 - 31/12/2020

Contexto faunístico y paleoambiental del yacimiento de Quibas en relación con la evolución climática del Pleistoceno Inferior y el primer poblamiento humano de Europa

Principal Investigators: Jordi Agustí and Pedro Piñero

Call: Ayudas para la aplicación de metodologías y técnicas de las ciencias experimentales/analíticas en arqueo-paleontología

Funder: Fundación Palarq

Period: 18/11/2019 - 31/07/2021

Identificación de restos Neandertales en la Cova de les Teixoneres (Moià, Barcelona) mediante Zooarqueología por Espectrometría de Masas (ZoomS)

Principal Investigators: Florent Rivals and Jordi Rosell

Call: Ayudas para la aplicación de metodologías y técnicas de las ciencias experimentales/analíticas en arqueo-paleontología

Funder: Fundación Palarq

Period: 18/11/2019 - 31/12/2020

Datación por C14 AMS de restos humanos procedentes de excavaciones antiguas, para su inclusión en el programa de análisis genético de las poblaciones de la Edad del Hierro de la Península Ibérica

Principal Investigator: Josep Maria Vergès

Call: Ayudas para la aplicación de metodologías y técnicas de las ciencias experimentales/analíticas en arqueo-paleontología

Funder: Fundación Palarq

Period: 10/01/2020 – 31/12/2020

Research projects not hosted by IPHES

Regional funded Quadrennials Research projects in archaeology and palaeontology

Els canvis climàtics durant el pleistocè a la costa central catalana i l'impacte en les poblacions.

Principal Investigator: Joan Daura and Montserrat Sanz

Host institution: Universitat de Barcelona

Funder: Projectes quadriennals de Recerca en matèria d'Arqueologia i Paleontologia, Generalitat de Catalunya, Departament de Cultura, Oficina de Suport a la Iniciativa Cultural.

Duration of the project: 2018-2021

Reference: CLT009/18/00022

Transicions culturals durant el Plistocè superior i l'Holocè al litoral prelitoral central de Catalunya

Principal Investigator: Josep Maria Fullola and Juan Ignacio Morales

Host institution: Universitat de Barcelona

Funder: Projectes quadriennals de Recerca en matèria d'Arqueologia i Paleontologia, Generalitat de Catalunya, Departament de Cultura, Oficina de Suport a la Iniciativa Cultural.

Duration of the project: 2018-2021

Reference: CLT009/18/00024

Spanish Projects

Primeras ocupaciones humanas y contexto paleoecológico a partir de los depósitos plio-pleistocenos de la cuenca Guadix-Baza. Zona arqueológica de la cuenca de Orce (Granada, España)

Principal Investigator: Juan Manuel López Arenas

Host institution: Universidad de Granada

Funder: Junta de Andalucía

Duration of the project: 2017-2021

Reference: ProjectOrce

Red de investigación en Impacto Social de la ciencia. NET4IMPACT

Principal Investigator: Marta Soler Gallart

Host institution: Universitat de Barcelona

Funder: Ministerio de Ciencia, Innovación y Universidades (Acciones de Dinamización "Redes de investigación"), Gobierno de España

Duration of the project: 01/01/2019 - 31/12/2020

Reference: RED2018-102779-T

Evolution of Early Stone Age in East and North Africa (2.6-0.2 Ma): Implications on the Behavioural, Cognitive and Biological Evolution of Early *Homo* and *Homo erectus* (PALEOAFRICA)

Principal Investigator: Mohamed Sahnouni and Sileshi Semaw

Host institution: Centro Nacional de Investigación sobre la Evolución Humana (CENIEH)

Funder: Ministerio de Ciencia, Innovación, y Universidades, Generación del Conocimiento

Duration of the project: 2019-2022

Reference: PGC2018-095489-B-I00

Interpretación de la ritualidad de *Homo neanderthalensis* a partir del registro arqueológico de la Cueva Des-Cubierta (Pinilla del Valle, Madrid)

Principal Investigator: Enrique Baquedano

Host institution: Museo Arqueológico Regional de la Comunidad de Madrid

Funder: Ministerio de Ciencia, Innovación, y Universidades, Generación del Conocimiento

Duration of the project: 2019-2022

Reference: PCG2018-094125-B-I00

Searching for the Pleistocene Hominin Occupation in the Kura-Arax depression and in the Vorotan River Valley (South Caucasus)

Principal Investigator: Lena Asryan and Andreu Ollé

Host institution: Fundación Atapuerca

Funder: Fundación Palarq

Duration of the project: 2019-2020

Reference: Field season 001/2019. Palarq Foundation / Atapuerca Foundation

Geología, geocronología y paleobiología de los yacimientos de la Sierra de Atapuerca

Principal Investigator: Juan Luís Arsuaga and Ignacio Martínez

Host institution: Universidad Complutense de Madrid

Funder: Ministerio de Ciencia, Innovación, y Universidades, Generación del Conocimiento

Duration of the project: 2019-2022

Reference: PGC2018-093925-B-C33

The case of the Negev and Sinai deserts (10th-8th millennia cal. BC) (NEONEG)

Principal Investigator: Ferran Borrell

Host institution: IMF-CSIC (Barcelona, Spain)

Funder: Ministerio de Ciencia, Innovación y Universidades

Duration of the project: 01/01/2019 - 31/12/2022

Entre transiciones en el Último Máximo Glacial. Cambios culturales y su interconexión con los procesos ambientales y tafonómicos en el occidente cantábrico (ca. 23.000-17.000 BP)

Principal Investigator: Marcos de la Rasilla Vives

Host institution: Universidad de Oviedo

Funder: Ministerio de Ciencia, Innovación, y Universidades, Generación del Conocimiento

Duration of the project: 2019-2022

Reference: MCIU-19-PGC-2018-100010-B-100

Estudio del Valle de los Neandertales. Hacia el establecimiento de un nuevo paradigma conductual en *Homo neanderthalensis*

Principal Investigator: María José Gil García

Host institution: Universidad de Alcalá

Funder: Comunidad de Madrid

Duration of the project: 2020-2022

Reference: H2019/HUM-5840

Poblamiento y formas de vida durante el pleistoceno final y holoceno en el prepirineo oriental)

Principal Investigator: Rafael Mora and Paloma González

Host institution: Universitat Autònoma de Barcelona

Funder: Ministerio de Ciencia, Innovación, y Universidades, Generación del Conocimiento

Duration of the project: 2020-2022

Reference: PID2019-104843GB-I00

Landscape modelization and resource management in the transition to farming in northeastern Iberia.

Principal Investigator: Raquel Piqué, Joan Anton Barceló, Antoni Palomo, Xavier Terradas

Host institution: Universitat Autònoma de Barcelona/ Museu d'Arqueologia de Catalunya/IMF-CSIC (Barcelona, Spain)

Funder: Ministerio de Ciencia, Innovación y Universidades

Duration of the project: 01/01/2020 - 31/12/2022

Dinamicas poblacionales y tecnologicas durante el Pleistoceno final-Holoceno de las sierras orientales del Noroeste Iberico

Principal Investigator: Ramón Fábregas Valcarce

Host institution: Universidad de Santiago de Compostela

Funder: Ministerio de Ciencia, Innovación y Universidades. Proyectos de I+D de GENERACIÓN DE CONOCIMIENTO (Tipo B)

Duration of the project: 01/07/2020 -01/07/2023

Reference: PID2019-107480GB-I00

Archaeological Wooden Pile-Dwelling in Mediterranean European lakes: strategies for their exploitation, monitoring and conservation

Principal Investigator: Raquel Piqué

Host institution: Universitat Autònoma de Barcelona

Funder: Ministerio de Ciencia, Innovación y Universidades

Duration of the project: 01/12/2020 - 30/11/2023

Internacional

Projet Collectif de Recherches "Entre plaines et montagnes: espaces de subsistance et expressions culturelles au Paléolithique moyen dans le Massif central (Auvergne-Ardèche)"

Principal Investigator: Marie-Hélène Moncel and Jean Paul Raynal

Host institution: Muséum National d'Histoire Naturelle (MNHN) Paris, France

Funder: Régions Auvergne et Rhône-Alpes

Duration of the project: 2010-2022

Préférence Manuelle chez les Homininés à partir des traces d'utilisation sur leurs outils en pierre (PreMHo)

Principal Investigator: Antony Borel

Host institution: Muséum National d'Histoire Naturelle (MNHN) Paris, France

Funder: Projets LabEx BCDiv

Duration of the project: 2015-2022

PlantCult

Principal Investigator: Sultana Maria Valamoti

Host institution: Aristotle University Thessaloniki, Greece

Funder: ERC Council

Duration of the project: 2016-2021

Projet Collectif de Recherches "Le monde moustérien méditerranéen entre Rhône et Pyrénées"

Principal Investigator: Thibaud Saos

Host institution: Université de Perpignan Via Domitia, EPCC-Centre Européen de Recherches Préhistoriques de Tautavel, UMR 7194 du CNRS, France

Funder: Service Régional de l'Archéologie de la Région Rhône et Pyrénées

Duration of the project: 2016-2022

Mission ARChéologique aux pHIlippinEs (MARCHE): Origine, nature et diversité des premiers peuplements des Philippines.

Principal Investigator: Thomas Ingicco

Host institution: Muséum National d'Histoire Naturelle (MNHN) Paris, France and National Museum of Manila, Philippines – University of Philippines, Philippines

Funder: Ministère des Affaires étrangères et du Développement international (MAEDI), France & National Geographic Society (USA)

Duration of the project: 2016-2022

Approche géoarchéologique des paysages de Corse à l'Holocène, entre mer et intérieur des terres "Trà Mare è Monti"

Principal Investigator: Matthieu Ghilardi

Host institution: CNRS-CEREGE, European Centre Research and Teaching in Geosciences de L'envi, France

Funder: Ministère de la Culture (France)

Duration of the project: 01/01/2018 -1/12/2020

International Research Network TAPHEN: European Network for Quaternary Taphonomy

Principal Investigator: Brugal, J.P.

Host institution: Université Aix-Marseille, France

Funder: CNRS

Duration of the project: 01/01/2018 -1/12/2021

Hunters-Gatherers of the eastern Negev during the Pre Pottery Neolithic B period, Nahal Efe as a case study

Principal Investigator: Jacob Vardi

Host institution: Israel Antiquities Authority, Israel

Funder: Israel Science Foundation

Duration of the project: 01/01/2019 - 31/12/2021

Gestion des Ressources Naturelles, Environnements et Sociétés

Principal Investigator: Claire Delhon

Host institution: University of Nice Sophia Antipolis, Nice, France

Funder: UMR 7264, CNRS-UNS

Duration of the project: 2018-2022

Hunting Only? Testing the Middle Paleolithic task specific hypothesis through traceology

Principal Investigator: Gorhen Shanon and Andreu Ollé

Host institution: Tell-Hai College, Upper Galilee, Israel

Funder: Irene Levi-Sala CARE Archaeological Foundation

Duration of the project: 2019-2020

Environment of early hominins outside Africa: the Guadix-Baza Basin

Principal Investigator: Hervé Bocherens
 Host institution: University of Tübingen, Germany
 Funder: Leakey Foundation
 Duration of the project: 2019-2020

Leverhulme Trust RPG-2019-113.

Principal Investigator: Zerina Johanson
 Host institution: Natural History Museum, London
 Funder: Leverhulme Trust
 Duration of the project: 2019-2022.

Biogeographic and cultural adaptations of early humans during the first intercontinental Dispersals

Principal Investigator: Ignacio de la Torre
 Host institution: Consejo Superior de Investigaciones Científicas (Madrid)
 Funder: European Union (Horizon 2020)
 Duration of the project: 01/10/2019 – 30/09/2023

Virtual Anthropology of Prehistoric Portugal

Principal Investigator: J.C. Willman and A. M. Silva
 Host institution: Universidade de Coimbra
 Funder: H2020-MSCA-IF-2018 No. 839822
 Duration of the project: 06/01/2020 – 05/01/2021

Paléoécologie de la grotte du Lazaret – interactions hommes-environnements au cours du Pléistocène moyen final (MIS 6) sur le littoral méditerranéen

Principal Investigator: E. Desclaux
 Host institution: DRAC PACA, FRANCE
 Funder: CNRS
 Duration of the project: 2020-2022

Understanding a threshold in Human evolution at 450-350 ka through the roots of Neanderthal behavior

Principal Investigator: M-H. Moncel
 Host institution: Museum National d'Histoire Naturelle (Paris)
 Funder: Agence Nationale de la Recherche
 Reference: ANR-19-CE27-0011-01
 Duration of the project: 2020-2023

COST action 19141 Integrating Neandertal Legacy: From Past to Present

Principal Investigator: I. Jankovic

Host institution: Institute for Anthropological Research, Croatia

Funder: European Union (Horizon 2020)

Duration of the project: 15/10/2020 – 14/10/2024

Research fellowships

Beatriu de Pinós (BP)

CHUFA: CHaracterizing Underground storage organs For Archaeological research. A necessary methodological improvement for the study of gathering practices in Prehistory

Beneficiary: Marian Berihuete

Supervisor: Ethel Allué

Funder: Beatriu de Pinós – MSCA Fellowship

Period: 01/02/2020-31/08/2021

Reference: 2017 BP 00210

Dental analyses of the first agropastoralists: An integrative approach

Beneficiary: Beatriz Gamarra

Supervisor: Marina Lozano

Funder: Beatriu de Pinós – MSCA Fellowship

Period: 01/01/2019 - 15/06/2021

Reference: 2017 BP 00210

Ramón y Cajal (RyC)

Paleoambiente, paleoclima y biocronología del Cuaternario en la región Mediterránea mediante el estudio de micromamíferos

Beneficiary: Juan Manuel López-García

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

Period: 01/01/2018 - 31/12/2022

Reference: RYC-2016-19386

Juan de la Cierva *Formación* (JCF)

Paleoenvironmental and paleoclimate reconstruction of the latest hunter-gatherer paleolithic societies in the NE Iberian Peninsula, from the application dental mesowear and microwear analysis on small mammals

Beneficiary: Sandra Bañuls-Cardona

Supervisor: Florent Rivals

Funder: Ministerio de Ciencia, Innovación y Uiversidades. Gobierno de España

Period: 01/02/20 - 31/01/22

Reference: FJC2018-038259-I

**Palaeoenvironmental dynamics in the Late Glacial- Early Holocene transition in NE Iberia.
Human-environment interaction during Mesolithic**

Beneficiary: Jordi Revelles

Supervisor: Francesc Burjachs

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

Period: 01/01/2019 - 31/05/2021

Reference: FJCI-2017-32954

Juan de la Cierva Incorporación (JCI)

Functional and cognitive assessment of percussive tools in Early Palaeolithic assemblages

Beneficiary: Adrián Arroyo

Supervisor: Andreu Ollé

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

Period: 01/01/2019 - 31/05/2021

Reference: IJCI-2017-33342

Formación de Personal Investigador (FPI)

**Huesos tallados del Paleolítico inferior y medio en Europa: estudio interdisciplinar de la
cadena operativa en Gran Dolina, Galería y Abric Romaní**

Beneficiary: Paula Mateo

Supervisor: Isabel Cáceres and Andreu Ollé

Funder: Ministerio de Ciencia e Innovación. Gobierno de España

Period: 01/09/2020 – 31/08/2024

Reference: PRE2019-087734

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

Beneficiary: Susana Alonso

Supervisor: Manuel Vaquero

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

Period: 01/07/2018 - 30/06/2022

Reference: BES-2017-081062

Formación de Personal Universitario (FPU)

Estudio tafonómico forense sobre restos humanos de cuevas sepulcrales del noreste peninsular entre el VI y III milenio a.C.

Beneficiary: Miguel Ángel Moreno Ibáñez

Supervisor: Palmira Saladié

Funder: Ministerio de Ciencia, Innovación y Universidades

Period: 30/09/2019 - 30/09/2023

Reference: FPU18/02291

Consolidando huesos: evaluación de la eficacia de nuevos productos en los fósiles de los yacimientos pleistocenos de la Sierra de Atapuerca (Burgos) y del Barranc de la Boella (Tarragona)

Beneficiary: Andrea Díaz

Supervisor: Eudald Carbonell Roura, Lucía López-Polín

Funder: Ministerio de Educación, Cultura y Deporte

Period: 28/09/2018 – 27/09/2022

Reference: FPU17/05506

Estudio de los cambios en la fisonomía del cráneo y del endocráneo del género *Homo*: implicaciones en la evolución del comportamiento

Beneficiary: Alfred Suesta

Supervisor: Carlos Lorenzo

Funder: Ministerio de Educación, Cultura y Deporte

Period: 28/09/2018 – 27/09/2022

Reference: FPU17/02716

Formació de personal Investigador novell (FI-DGR)

Régimen de movilidad estacional de las primeras comunidades ganaderas del Neolítico a través de análisis arqueozoológicos y bioquímicos (isótopos estables)

Beneficiary: Chiara Messana

Supervisor: Josep Maria Vergès

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

Period: 01/08/2020 – 31/07/2023

Reference: B2020FI_B 00341

Context del poblament dels primers homínids al Magreb: reconstrucció paleoecològica i paleoclimàtica a partir de proxies d'alta resolució (anàlisis biogeoquímics i desgast dental)

Beneficiary: Iván Ramírez

Supervisor: Florent Rivals and Carlos Tornero

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

Period: 01/04/2020 – 31/03/2023

Reference: B2020FI_B 00731

Esqueletocronología de anfibios y reptiles: relación del tamaño y patrón de crecimiento con el clima durante el Plio-Pleistoceno en la Península Ibérica

Beneficiary: Almudena Martínez

Supervisor: Hugues A. Blain

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

Period: 01/04/2019 -31/03/2021

Reference: 2019FI_B 00487

Traceological analysis of mobile toolkits in high-resolution Middle Paleolithic contexts: Abric Romaní (capellades, Barcelona) and Nahal Mahanayem Outlet (Upper Jordan Valley, Israel)

Beneficiary: Juan Ignacio Martín-Viveros

Supervisor: Andreu Ollé, Gema Chacón and Gonen Sharon

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

Period: 01/04/2019 -31/03/2022

Reference: FI_B 00210

La gestión volumétrica en la talla lítica como indicador de la evolución cognitiva en el Pleistoceno Inferior y Medio

Beneficiary: Diego Lombao

Supervisor: Marina Mosquera

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

Period: 01/03/2018-07/06/2021

Reference: 2018FI_B_00364

Interaccions entre homínids i carnívors durant el Plistocè: Neo-Tafonomia de carnívors i la seva implicació en la ecologia dels homínids arcaics, una aproximació a partir del nivell TDW-4 de Gran Dolina (Sierra de Atapuerca, Burgos), la Cova del Toll (Moià, Barcelona) i la Cova de les Llenes (Lleida)

Beneficiary: Maria Teresa Arilla Osuna

Supervisor: Jordi Rosell

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

Period: 01/03/2017 - 28/02/2020

Reference: 2017FI_B 00286

Reconstrucció paleoambiental i paleoclimàtica del trànsit paleolític superior final – Edat del Bronze al nord de la Península Ibèrica: els amfibis i rèptils de la cova de El Mirador (Sierra de Atapuerca, Burgos)

Beneficiary: Josep Francesc Bisbal-Chinesta

Supervisor: Hugues A. Blain

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

Period: 01/03/2016 - 26/03/2020

Reference: 2016FI_B 00286

[Fundación “La Caixa”](#)

Fuel economy and environment in Barcelona during historical times: an archaeological approach based on wood charcoal proxies

Beneficiary: Sabrina Bianco

Supervisor: **Ethel Allué**, Santiago Riera-Mora and Llorenç Picornell-Gelabert

Funder: Fundación Bancaria “La Caixa”, Doctorate INphINIT retaining

Period: 01/11/2020 – 31/10/2023

Reference: LCF/BQ/DR20/11790001

[Social Sciences and Humanities Council of Canada](#)

A Taphonomic and Taxonomic Analysis of the Pleistocene Fauna from Olduvai Beds I-IV

Beneficiary: Pamela Akuku

Supervisor: Palmira Saladié and Julio Mercader

Funder: SSHRC (Social Sciences and Humanities Council of Canada) through OGSDS (Olduvai Gorge Stone Tools Diet and Sociality) project at the University of Calgary

Period: 01/10/2020 – 30/09/2023

Reference: w/o

[The Leakey Foundation](#)

The microvertebrates assemblages from the hominin site of Tighennif (Northwestern Algeria) Taxonomy, Taphonomy and Palaeoenvironmental reconstructions

Beneficiary: Nadia Saidani

Supervisor: Jordi Agustí and Mohamed Sahnouni

Funder: The Leakey Foundation

Period: 01/01/2019 - 31/12/2021

Reference: 200.264

Research granted in 2020

Apart from the above mentioned fellowships, in 2020 other postdoctoral researchers applied for competitive research grants at IPHES, whose incorporation in the center will be effective in 2021:

- ✓ Dr. **Ruth Blasco**. Ramón y Cajal. (Ref. RYC2019-026386-I).
- ✓ Dr. **Paola García-Medrano**. Beatriu de Pinós (Ref. 2019 BP 00094). Scientific-in-charge: Dr. Andreu Ollé.
- ✓ Dr. **Amèlia Bargalló**. Juan de la Cierva – Incorporación (Ref. IJC2019-041546-I). Scientific-in-charge: Dr. Marina Mosquera.
- ✓ Dr. **Mikel Arlegi**. Juan de la Cierva – Formación (Ref. FJC2019-040659-I). Scientific-in-charge: Dr. Carlos Lorenzo.

With regard to participation in research programmes and requests for international funding, in 2020 IPHES researchers participated in European calls, especially Horizon 2020 (ERC Grants, Marie S. Curie actions, societal challenges...), as well as calls from other countries, such as those from the Wenner-Gren Foundation or Gerda Henkel Stiftung.

Following research career outside IPHES

Concerning predoctoral training, the ongoing professional activities of our doctorates over the almost 40 PhDs graduated between 2016 and 2020, 17 are already developing their research career outside of the centre. It reflects our training capacities, both in scientific terms as well as in so-called transferable skills in order to facilitate to the alumni a broad perspective in his/her professional career. In 2020 the following member started his/her research outside IPHES:

- ✓ Dr. **David Riba Cano**, Doctorate at URV on March 2016, 2nd. Current position: Associate Professor of Prehistory at Universitat de Girona.
- ✓ Dr. **Karina Vanesa Chichkoyan**, Doctorate at URV on March 2017, 29th. Current Position: Carrera Investigadora Asistente, CONYCET (Argentina).
- ✓ Dr. **Antonella Pedernana**, Doctorate at URV on June 2017, 12th. Current Position: Postdoctoral Researcher in Use-wear analysis (Pleistocene/Early Holocene Archaeology) TraCEr, Monrepos Archaeological Research Center and Museum for Human Behavioral Evolution. Neuwied (Germany).
- ✓ Dr. **Pedro Piñero**, Doctorate at URV on July 2017, 11th. Current position: Beca Postdoctoral de convocatoria general CONICET 2018 (Argentina).
- ✓ Dr. **Anna Rufà**, Doctorate at URV on September 2017, 5th. Current Position: Postdoctoral IdEx, Agence Nationale de la Recherche No.–10–IDEX-03-02 Fellowship at Université de Bordeaux, PACEA (France).
- ✓ Dr. **Boris Santander**, Doctorate at URV on September 2017, 14th. Current Position: Faculty member, Department of Anthropology, Universidad Alberto Hurtado (Chili).
- ✓ Dr. **Marta Modolo**, Erasmus Mundus International Doctorate in Quaternary and Prehistory URV-MNHN on September 2017, 14th. Current position: MSCA-IF-2019 (Grant agreement ID: 897841) Università degli Studi di Ferrara (Italy).
- ✓ Dr. **Elisa Luzi**, Doctorate at URV on April 2018, 5th. Current position: Postdoctoral Fellow (ESP 1209403 HFST-P) at Inst. für Naturwissenschaftliche Archäologie. Eberhard Karls Universität Tübingen (Germany).
- ✓ Dr. **Gizéh Rangel de Lázaro**, Doctorate at URV on April 2018, 10th. Current position: Researcher Leverhulme project since 30th September 2019-2022. Life-Earth Sciences Department. Natural History Museum (UK).
- ✓ Dr. **Giulia Marciani**, Doctorate on April 2018, 18th. Current position: Research Fellow in the Department of Cultural Heritage of the Università degli Studi di Bologna (Italy).
- ✓ Dr. **Antonio Pineda**, Doctorate on June 2018, 4th. Current Position: Juan de la Cierva – Formación (FJC2019-040804-I) Fellowship at Universidad Complutense de Madrid.
- ✓ Dr. **Beatriz Menéndez Iglesias**, Doctorate at URV on October 2018, 22nd. Current position: Beca Postdoctoral in the Instituto de Investigaciones Antropológicas, UNAM, Mexico. Programa de Becas Postdoctorales de la UNAM, Coordinación de Humanidades (Mexico).

- ✓ Dr. **Mónica Fernández-García**, Doctorate on March 2019, 28th. Current Position: Postdoctoral Research Associate inside Subsilience ERC-project and the Universidad de Cantabria.
- ✓ Dr. **Gabriele Terlato**, Erasmus Mundus International Doctorate in Quaternary and Prehistory URV-MNHN on May 2019, 3rd. Current position: Postdoctoral Researcher Juan de la Cierva Formación (FJC2019-040637-I) at Universidad de Cantabria.
- ✓ Dr. **Leopoldo Pérez**, Doctorate on June 2019, 3rd. Current Position: Post-Doctoral Researcher APOSTD (APOSTD/2020/202) at Universitat de València.
- ✓ Dr. **Malebogo Mvimi**, Erasmus Mundus International Doctorate in Quaternary and Prehistory URV-MNHN-UNIFE on June 2019, 6th. Current position: Lecturer in Archaeosciences in the School of Geography, Archaeology and Environmental Studies at the University of the Witwatersrand (South Africa).
- ✓ Dr. **Neemias Santos da Rosa**, Doctorate at URV on the 8th July 2019. Current position: Researcher at ERC project ARTSOUNDSCAPES (AdG 2017 Grant agreement ID: 787842) at Universitat de Barcelona.

Application for projects and scholarships (granted and pending of resolution)

Granted

Apoyo a Unidades de Excelencia María de Maeztu

Principal Investigator: Robert Sala

Host institution: IPHES

Funder: Ministerio de Ciencia, Investigación y Universidades (CEX2019-000945-M)

Dental wear and dietary traits and niche partitioning among Plio-Pleistocene proboscideans from the southern Levant

Principal Investigator: Florent Rivals

Host institution: Hebrew University of Jerusalem (Israel)

Funder: SYNTHESYS grants, European Union

Régimen de movilidad estacional de las primeras comunidades ganaderas del Neolítico a través de análisis arqueozoológicos y bioquímicos (isótopos estables)

Principal Investigator: Chiara Messana

IPHES member: Josep Maria Vergés

Host institution: Institut Català de Paleoecologia Humana i Evolució Social (IPHES)

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

Primeros pasos humanos en América del Sur, caminando entre Gonfoterios

Principal Investigator: Carlos Tornero, E. Erwin González-Guarda, Rafael Labarca Encina

Host institution: IPHES

Funder: PALARQ EXTERIORES

Aplicaciones de la Arqueometría para el Estudio de Trazas Antrópicas en Conjuntos al Aire Libre

Principal Investigator: Antonio Pineda

Host institution: Universidad Complutense de Madrid

Funder: Programa Juan de la Cierva – Formación, Ministerio de Ciencia e Innovación. Gobierno de España

StEP Group_Innovative approaches to early stone tool technology and cognitive technology

Principal Investigator: Amèlia Bargalló

Host institution: IPHES

Funder: Programa Juan de la Cierva – Innovación, Ministerio de Ciencia e Innovación. Gobierno de España

Landscape transformation during the Mesolithic-Neolithic transition in the Western Mediterranean (LANDOWNER)

Principal Investigator: Jordi Revelles

Host institution: IPHES-CERCA

Funder: Ministerio de Ciencia, Innovación y Universidades. Convocatoria “Europa Investigación 2020”

Evolución del poblamiento humano durante el cuaternario en Marruecos Oriental: Aïn Beni Mathar – Guefaït (Provincia de Jerada)

Principal Investigator: M. Gema Chacón, Robert Sala, Hassan Aouraghe

Host institution: IPHES – Departament de Géologie / Université Mohamed 1r Oujda (Maroc)

Funder: Fundación Palarq

Preparation of an Advanced Grant Proposal to study the effects of fuel uses on past landscapes and human health (FUEL)

Principal Investigator: Ethel Allué

Host institution: IPHES

Funder: Acciones de Dinamización Europa investigación 2020” [EIN]. Ministerio de ciencia e innovación

Datación por C14 AMS de restos humanos procedentes de excavaciones antiguas, para su inclusión en el programa de análisis genético de las poblaciones de la Edad del Hierro de la Península Ibérica

Principal Investigator: Josep Maria Vergès

Host institution: IPHES

Funder: Fundación PALARQ

Research stay scholarship

Principal Investigator: Juan Ignacio Martín-Viveros

Host institution: University of Liège (Belgium)

Funder: Erasmus + (European Union) and University Rovira I Virgili (URV)

Ayudas para personal técnico de apoyo

Principal Investigator: Lena Asryan

Host institution: IPHES

Funder: Ministerio de Ciencia e Innovación. Gobierno de España

Ajuts postdoctorals per a la incorporació de personal investigador al sistema català de ciència i tecnologia dins el programa Beatriu de Pinós (BP 2019)

Principal Investigator: María Soto

IPHES member: Josep Maria Vergés

Host institution: IPHES

Role: Researcher in charge

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

Ajuts postdoctorals per a la incorporació de personal investigador al sistema català de ciència i tecnologia dins el programa Beatriu de Pinós (BP 2019)

Principal Investigator: Paula García Medrano

IPHES member: Andreu Ollé

Host institution: IPHES

Role: Researcher in charge

Funder: Agència de Gestió d'Ajuts Universitaris i de Recerca AGAUR (2019 BP 00094)

Workshop: Tool Function and the Story of Plant Utilization in Early Human Evolution (June 2020, Zanzibar, Tanzania).

Principal Investigator: Julio Mercader

IPHES member: Andreu Ollé

Host Institution: University of Calgary (Canada)

Role: Collaborator

Funder: Social Sciences and Humanities Research Council of Canada. Connection grants

Fuel economy and environment in Barcelona during historical times: an archaeological approach based on wood charcoal proxies

Principal Investigator: Sabrina Bianco

Host institution: IPHES and Universitat de Barcelona

Funder: Fundación "La Caixa", doctorate INphINIT retaining

Catalan European Researcher's Night

Institution: Universitat de Girona i Universitat Rovira i Virgili

IPHES Member : Marta Fontanals

Host institution: Universitat de Girona

Funder: Marie Skłodowska-Curie actions

Juan de la Cierva / Contratos postdoctorales

Principal Investigator: Mikel Arlegui and Carlos Lorenzo

Host institution: IPHES

Funder: Ministerio de Ciencia e Innovación

Programa Martí i Franquès d'ajuts a la investigació - Modalitat Predoctoral - 2020-PMF-PIPF

Principal investigator: Andreu Ollé

Host Institution: IPHES / URV

Role: Researcher in charge

Funder: URV (2020PMF-PIPF-43)

Pending of resolution

Human niche and its changes during the Pleistocene 1.5-0.012 Ma ago

Principal Investigator: Miikka Tallavaara

IPHES member: Deborah Barsky

Host institution: University of Helsinki

Funder: The Kone Foundation

Identificación de restos Neandertales en la Cova de les Teixoneres (Moià, Barcelona) mediante Zooarqueología por Espectrometría de Masas (ZooMS)

Principal Investigator: Florent Rivals and Jordi Rosell

Host institution: IPHES

Funder: Fundación Palarq

VirtualSci: Entorns virtuals per a una nova metodologia d'educació científica a les escoles

Principal Investigator: Josep Maria Vergès

Host institution: IPHES

Funder: Agència d'Ajuts Universitaris I Recerca (AGAUR)

Paleoformentera. Historia del paisaje y gestión de los recursos vegetales por parte de los primeros pobladores de Formentera.

Principal Investigator: Jordi Revelles and Pau Sureda

Host institution: Personal grant

Funder: Consell Insular de Formentera

Local Climate and Landscapes in Neanderthal Behavioural Diversity (LOCALE)

Principal Investigator: Francesc Burjachs

Host institution: IPHES

Funder: ERC – Advanced

The Mediterranean in flames. The role of past land-use practices in Holocene fire regimes.

Principal Investigator: Jordi Revelles

Host institution: IPHES-CERCA

Funder: Ministerio de Ciencia, Innovación y Universidades. Convocatoria "Proyectos de I+D+i. Modalidad Retos de la Investigación, proyectos JIN"

Ethnoarchaeology of Fuel Among Maasai (Tanzania), Damara and Khoekhoe (Namibia), San !Kung and Ju'hoansi (Botswana) Communities (Archfuel)

Principal Investigator: Ethel Allué and Llorenç Picornell-Gelabert

IPHES member: Isabel Expósito

Host institution: IPHES

Funder: Gerda Henkel

MSCA 2020 Call / Individual Fellowships

Principal Investigator: Costantino Buzzi and Carlos Lorenzo

Host institution: IPHES

Funder: UE

Caracterización climática de interglaciales/interstadales Cuaternarios mediante la estandarización del método para reconstrucciones cuantitativas Mutual Ecogeographic Range

Principal Investigator: Hugues A. Blain and Juan Manuel López García

Host institution: IPHES

Funder: Ministerio de Ciencia e Innovación. Gobierno de España

Unravelling savanna chimpanzee tool-use: the impact of seasonality on their technology (RESILIENT)

Principal Investigator: Adrián Arroyo

Host institution: IPHES

Funder: Fundación “La Caixa”. Postdoctoral Junior Leader-Retaining

Wear Traces on Basalt Tools: an Experimental case for archaeological Interpretation

Principal Investigator: Lena Asryan

Host institution: University of Liège, Belgium

Funder: MSCA-IF

Refitting and spatial pattern analysis to reconstruct archaeological assemblage formation from a spatio-temporal perspective: application to Israeli Middle Palaeolithic open-air sites

Principal Investigator: M. Gema Chacón

Host institution: Institute of Archaeology. Hebrew University of Jerusalem (Israel)

Funder: Lady Davis Fellowship Trust (Israel) - Visiting Professors 2021-22

Middle and Later Stone Age in Eastern Morocco: Homo sapiens open-air settlement dynamics

Principal Investigator: M. Gema Chacón

Host institution: IPHES – Departament de Géologie / Université Mohamed 1r Oujda (Maroc)

Funder: Leakey Foundation (USA)

Evolución del poblamiento humano durante el cuaternario en Marruecos Oriental: Aïn Beni Mathar – Guefaït (Provincia de Jerada, Marruecos)

Principal Investigator: M. Gema Chacón (CO-PI: Robert Sala, Hassan Aouraghe)

Host institution: IPHES – Departament de Géologie / Université Mohamed 1r Oujda (Maroc)

Funder: Proyectos Arqueológicos en el Exterior. Ministerio de Cultura y Deporte

Caracterización tecnológica de los yacimientos del Paleolítico medio en la región central del mediterráneo ibérico

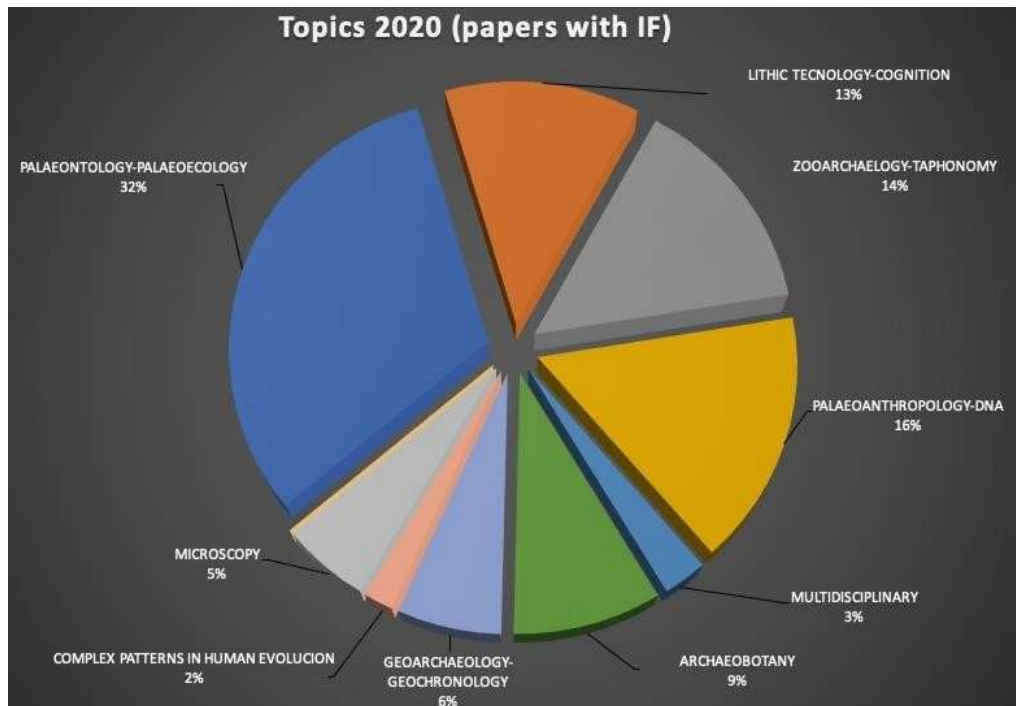
Principal Investigator: Aleix Eixea

IPHES member: M. Gema Chacón

Host institution: Departament de Prehistòria, Arqueologia i Història Antiga de la Universitat de València

Funder: Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital – Generalitat Valenciana (Subvencions per a la consolidació i enfortiment de projectes i grups d'R+D+i, subvencions a grups d'investigació emergents)

Publications



Topics of the papers published in 2020. - X.P. Rodríguez



Distribution of IPHES publications according to the quartile of the journals during 2020– X. P. Rodríguez

<i>Journal</i>	<i>papers</i>	<i>%</i>
<i>Quaternary International</i>	22	15,6%
<i>Journal of Archaeological Science: Reports</i>	22	15,6%
<i>Quaternary Science Reviews</i>	16	11,3%
<i>Archaeological and Anthropological Sciences</i>	12	8,5%
<i>Scientific Reports</i>	8	5,7%
<i>Plosone</i>	5	3,5%
<i>American Journal of Physical Anthropology</i>	5	3,5%
<i>Journal of Human Evolution</i>	4	2,8%
<i>Journal of Archaeological Science</i>	4	2,8%
<i>Historical Biology</i>	3	2,1%

Journals with more than two publication by IPHES in 2020 – X. P. Rodríguez

<i>Journal</i>	<i>IF (2019)</i>	<i>Papers 2020</i>	<i>Research Field (JCRI)</i>	<i>Journal Ranking (2019)</i>	<i>Quartile (2019)</i>	<i>Decile (2019)</i>
<i>Nature</i>	42,778	1	Multidisciplinary	1/71	1	1
<i>Cell</i>	38,637	1	Biochemistry & Molecular Biology	1/297	1	1
<i>Science Advances</i>	13,116	1	Multidisciplinary	4/71	1	1
<i>Nature Ecology & Evolution</i>	12,541	1	Ecology	3/168	1	1
<i>Nature Communications</i>	12,121	1	Multidisciplinary	6/71	1	1
<i>Biological Reviews</i>	10,701	1	Biology	2/93	1	1
<i>PNAS</i>	9,412	1	Multidisciplinary	8/71	1	2
<i>Scientific Reports</i>	3,998	8	Multidisciplinary	17/71	1	3
<i>Geomorphology</i>	3,819	1	Geosciences, Multid.	28/200	1	2
<i>Quaternary Science Reviews</i>	3,803	16	Geosciences, Multid.	30/200	1	2

IPHES publications in journals with highest impact factor in 2020 – X. P. Rodríguez

Gold Open Access articles are marked in yellow.

Green Open Access articles are marked in green.

Articles in peer reviewed journals with impact factor (JCR), indexed by Web of Science (WOS)

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Editorial Work

Guest Editor

Journal of Archaeological Science: Reports

Authors: Eixea, A. and **Chacón, M. G.**

Volume: The search of small tools by Neanderthals populations in Western Europe

Authors: Pawlik, A., Skakun, N., Márquez, B., **Ollé, A.**, and Longo, L.

Volume: Functional Studies of Prehistoric Artefacts and their Socio-economic Meaning

Authors: Vidal-Matutano, P., Henry, A., Carrión, Y. and **Allué, E.**

Volume: Disentangling human from natural factors: Taphonomical value of microanatomical features on archaeological wood and charcoal assemblages.

Quaternary

Authors: **Brisset, E.**, Dupont, E.m and **Burjachs, F.**

Volume: Adaptive Capacity of Prehistoric Coastal Communities to Environmental Changes

Quaternary International

Authors: Fernández, J.L., **Asryan, L.**, Pederghana, A., **Ollé, A.**

Volume: "Not only use". Application of functional methods for a better comprehension of operative chains

Authors: Lozovskaya, O. and **Berihuete-Azorín, M.**

Volume: Subsistence strategies in the Stone Age: Direct and indirect evidence of fishing and gathering

Authors: **Rivals, F.** and **Tornero, C.**

Volume: High resolution analyses of large mammals dental remains: Broadening horizons

Quaternary Science Reviews

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Volume: Quaternary small vertebrates: State of the art and new insights

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Journal of Archaeological Method and Theory

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Palaeobiodiversity and Palaeoenvironments

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7 articles reviewed

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1 article reviewed

Palynology

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1 article reviewed

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3 articles reviewed

African Journal of Humanities and Social Sciences

1 article reviewed

Alpine and Mediterranean Quaternary

2 articles reviewed

Archaeological Review from Cambridge

1 article reviewed

ArqueoWeb Revista de Arqueología

1 article reviewed

Biodiversitas

1 article reviewed

Bulletin de la Société Préhistorique Française

1 article reviewed

Ciências da Terra Procedia (Special Issue – EJIP 2020)

1 article reviewed

Conserva

1 article reviewed

Espacio, Tiempo y Forma

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2 articles reviewed

International Journal of Social Science Studies

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Journal of Archaeological Science: Reports

11 articles reviewed

Journal of Asia-Pacific Biodiversity

1 article reviewed

Meeting Microvertebrate Working Group

1 article reviewed

Quaternary

3 articles reviewed

Spanish Journal of Paleontology

2 articles reviewed

Tabona

1 article reviewed

Zephyrus

1 article reviewed

[Referee of book chapters](#)

Human-elephant interactions: from past to present (Tübingen University Press)

1 chapter reviewed

Senèze: Life in Central France Two Million Years Ago (Springer)

1 chapter reviewed

Referee of scholarships

National

Agencia Andaluza del Conocimiento (Junta de Andalucía) - Programa postdoctoral EMERGIA

1 scholarship reviewed

Universitat Rovira i Virgili, Ajut Talent Màster

1 scholarship reviewed

Universitat Rovira i Virgili, 2 collaboration scholarships BIDI URV

2 scholarships reviewed

Universitat Rovira i Virgili, Erasmus +mobility for studies

8 grants reviewed

International Master in Quaternary and Prehistory (IMQP)

14 grants reviewed

Premi Extraordinari de Doctorat en Quaternari i Prehistòria 2018-2019

1 prize reviewed

International

Fund for Scientific Research (FNRS, France)

1 project reviewed

German Academic Exchange Service (DAAD, Germany)

1 project reviewed

The Leakey Foundation (U.S.)

3 projects reviewed

Wenner-Gren Foundation (U.S.)

2 projects reviewed

Referee of Research Projects

National

Evaluation Projects I+D+i, Área PHA-ARQ (Subdivisión de Coordinación y Evaluación). Ministerio de Ciencia, Innovación y Universidades

1 Commission Member

Institut Català d'Arqueologia Clàssica, Post-doctoral Grants

1 projected reviewed

Universidad de Oviedo. Modalidad A: Ayudas para proyectos de investigación

1 projected reviewed

Universidad de Oviedo. Modalidad B: Ayudas para proyectos de investigación emergentes

1 projected reviewed

International

Agence Nationale de la Recherche (France)

3 projects reviewed

CONACYT – Frontier Science (Mexico)

1 project reviewed

Croatian Science Foundation

1 project reviewed

Leverhulme Trust (UK)

1 project reviewed

National Science Center of Poland

1 project reviewed

The Israel Science Foundation

2 projects reviewed

The Leakey Foundation

1 project reviewed

Fieldwork research

Archaeological/Palaeontological excavations directed by IPHES

Catalonia

Archaeological site: **Abric Romaní**

Location: Capellades (Barcelona)

Chronology: Middle Paleolithic

Directors: **Eudald Carbonell, María Gema Chacón** and **Palmira Saladié**

Archaeological site: **Barranc de la Boella**

Location: La Canonja (Tarragona)

Chronology: Early Pleistocene

Directors: **Josep Vallverdú** and **Palmira Saladié**

Archaeological site: **La Bauma dels Fadrins**

Location: Queralbs, Ripollès (Girona)

Chronology: Late-Pleistocene to Holocene

Director: **Carlos Tornero, Eudald Carbonell, Celia Díez, Iván Ramírez**

Paleontological site: **Camp dels Ninots**

Location: Caldes de Malavella (Girona)

Chronology: Late Pliocene

Directors: **Bruno Gómez de Soler, Gerard Campeny** and **Jordi Agustí**

Archaeological site: **Cal Sitjò**

Location: Sant Martí de Tous (Barcelona)

Chronology: Middle Paleolithic- Holocene

Director: **Josep Vallverdú** and **Bruno Gómez de Soler**

Archaeological site: **Cova d'en Pau**

Location: Serinyà (Girona)

Chronology: Paleolític Superior

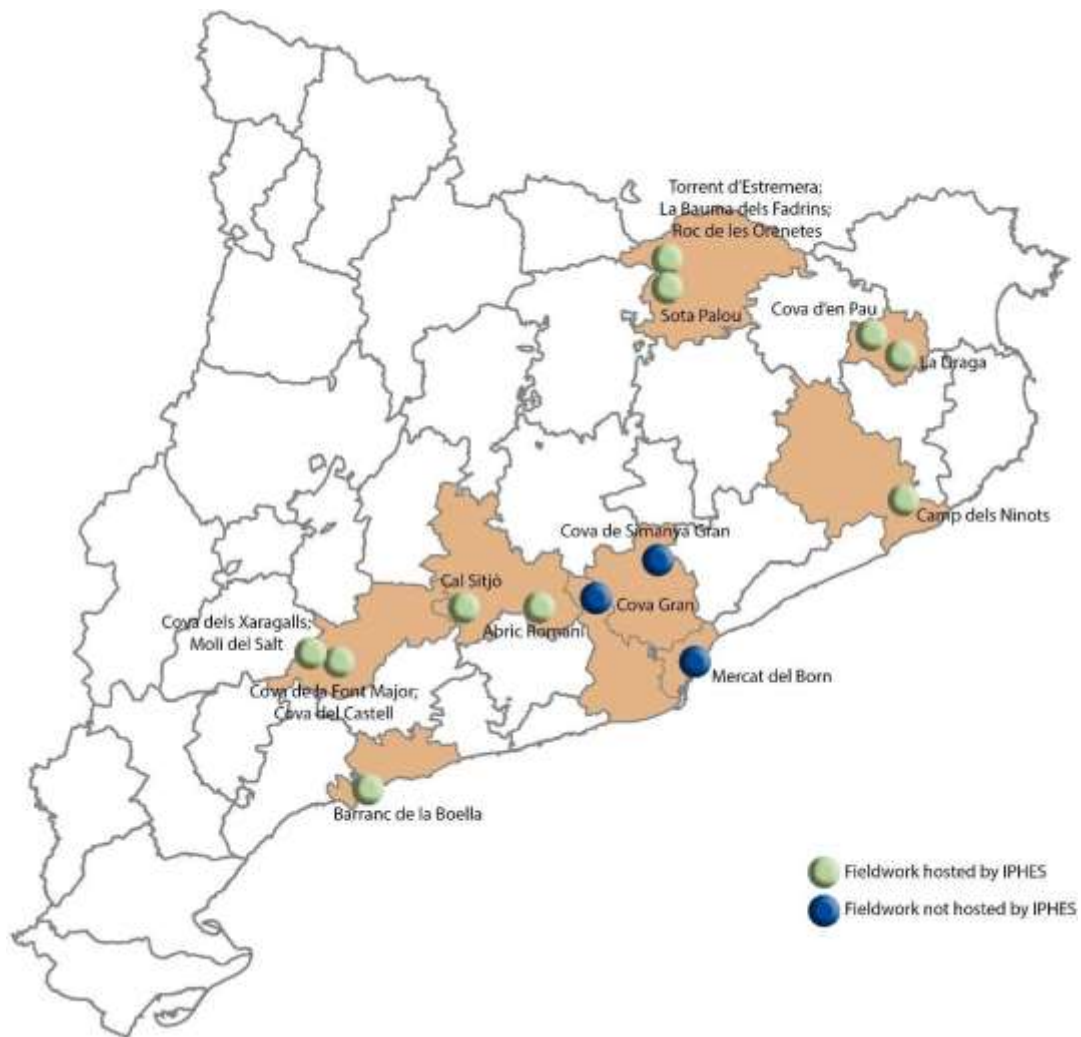
Directors: Julià Maroto, **Manuel Vaquero** and Ferran Millan

Archaeological site: **Cova de la Font Major**

Location: L'Espluga de Francolí (Tarragona)

Chronology: Upper Pleistocene to Holocene

Directors: **Josep Maria Vergès**



Catalan sites excavated by IPHES members in 2020

Archaeological site: **Cova del Castell**

Location: L'Espluga de Francolí (Tarragona)

Chronology: Upper Pleistocene to Holocene

Directors: **Josep Maria Vergès**

Archaeological site: **Cova del Cudó**

Location: L'Espluga de Francolí (Tarragona)

Chronology: Upper Pleistocene to Holocene

Directors: **Josep Maria Vergès**

Archaeological site: **Cova dels Xaragalls**

Location: Vimbodí i Poblet (Tarragona)

Chronology: Late Pleistocene-Holocene

Directors: **Antonio Rodríguez-Hidalgo, Alfredo Suesta** and Roser Marsal

Archaeological site: **La Draga**

Location: Banyoles (Girona)

Chronology: Neolithic

Directors: Antoni Palomo, **Jordi Revelles**, Oriol López-Bultí and Rut Geli

Archaeological site: **Molí del Salt**

Location: Vimbodí (Tarragona)

Chronology: Upper Paleolithic

Director: **Manuel Vaquero** and **Susana Alonso**

Archaeological site: **Roc de les Orenetes**

Location: Queralbs, Ripollès (Girona)

Chronology: Neolithic and Bronze Age

Director: **Carlos Tornero**, **Eudald Carbonell**, **Celia Díez** and **Iván Ramírez**

Archaeological site: **Sota Palou**

Location: Campdèvanol, Ripollès (Girona)

Chronology: Mesolithic

Director: **Carlos Tornero**, **Celia Díez** and **Iván Ramírez**

Archaeological site: **Torrent d'Estremera**

Location: Queralbs, Ripollès (Girona)

Chronology: Mesolithic, Neolithic and Bronze Age

Director: **Carlos Tornero**, **Celia Díez** and **Iván Ramírez**

National

Archaeological site: **Cova Eirós**

Location: Triacastela (Lugo)

Chronology: Middle and Upper Palaeolithic and Holocene

Directors: **Arturo de Lombera Hermida** and **Xosé Pedro Rodríguez**

Archaeological site: **Yacimientos de la Sierra de Atapuerca: Sima del Elefante, Gran Dolina, Galería, Sima de los Huesos, Cueva Fantasma and El Mirador**

Location: Atapuerca (Burgos)

Chronology: Pleistocene and Holocene

Directors: Juan Luís Arsuaga, José María Bermúdez de Castro and **Eudald Carbonell**

International

Archaeological site: **Engel Ela-Ramud basin**

Location: Engel-Ela Ramud (Eritrea)

Chronology: Early Pleistocene

Director: **Bienvenido Martínez-Navarro** and **Tsegai Medin**

Archaeological site: **Luba Gadhi II-Gallardo**

Location: Engel-Ela Ramud (Eritrea)

Chronology: Early Pleistocene

Directors: **Antoni Canals**

[Sampling surveys managed by IPHES](#)

Archaeological site: **Abric Romaní**

Location: Capellades (Barcelona)

Chronology: Middle Paleolithic

Archaeological site: **Aroeira**

Location: Portugal

Chronology: Middle Pleistocene

Archaeological site: **Bauma dels Fadrins**

Location: Queralbs, Ripollès (Girona)

Chronology: Holocene, 9000 – 7000 calBP

Archaeological site: **Cova Gran de Santa Linya**

Location: Les Avellanes i Santa Linya (Lleida)

Chronology: Middle Paleolithic - Calcolithic

Archaeological site: **Irgiz 1**

Location: Russia

Chronology: Late Pleistocene

Archaeological site: **Lazaret**

Location: France

Chronology: Middle Pleistocene

Archaeological site: **Nesher Ramla**

Location: Israel

Chronology: Middle – Late Pleistocene

Archaeological site: **Olduvai**

Location: Tanzania

Chronology: Pleistocene

Archaeological site: **Pla de les Preses**

Location: Vall d'en Bas, Garrotxa (Girona)

Chronology: Holocene

Archaeological site: **Plana del Castell**

Location: Cunit, Baix Penedès (Tarragona)

Chronology: Holocene

Archaeological site: **Roc de les Orenetes**

Location: Queralbs, Ripollès (Girona)

Chronology: Holocene

Archaeological site: **Roca dels Bous**

Location: Sant Llorenç de Montgai (Lleida)

Chronology: Middle Paleolithic

Archaeological site: **Shöningen**

Location: Germany

Chronology: Middle Pleistocene

Archaeological site: **TD10 - Atapuerca**

Location: Atapuerca (Burgos)

Chronology: Middle Pleistocene

[Archaeological/Palaeontological excavations not directed by IPHES](#)

Catalonia

Archaeological site: **Cova Gran de Montserrat**

Location: Collbató

Chronology: Middle-Upper Paleolithic

Directors and institution: Juan Ignacio Morales (UB).

Archaeological site: **Cova de Simanya Gran**

Location: Sant Llorenç Savall (Barcelona, Spain)

Chronology: Upper Pleistocene- Holocene

Director and institution: Juan Ignacio Morales and Artur Cebrià (UB).

Archaeological site: **Les Guixeres de Vilobí**

Location: Vilobí del Penedès (Espanya)

Chronology: Neolithic

Director and institution: Oms, X.; Laborda, R.; Martínez, H.

Archaeological site: **Mercat del Born (076/18)**

Location: Barcelona

Chronology: Medieval-Early Modern Period

Directors and institution: A. Fernández (El Born CCM)

National

Archaeological site: **Barranc León** and **Fuente Nueva 3**

Location: Orce (Granada)

Chronology: Early Pleistocene

Director and institution: Juan Manuel Jiménez-Arenas (University of Granada)

Archaeological site: **Cueva de El Castillo**

Location: Puente Viesgo (Cantabria)

Chronology: Middle Paleolithic

Directors and institution: José Manuel Maíllo Fernández (UNED).

Archaeological site: **Pinilla del Valle**

Location: Madrid

Chronology: Middle Paleolithic

Directors and institution: Enrique Baquedano (Museo Arqueológico Regional de Madrid), Juan Luis Arsuaga (UCM) and Alfredo Pérez-González (CENIEH).

Archaeological site: **Tamajón**

Location: Guadalajara

Chronology: Upper Pleistocene-Holocene

Directors and institution: Nohemí Sala and Adrián de Pablos (CENIEH)

International

Archaeological site: **Abri du Maras**

Location: Saint Martin d'Ardèche, France

Chronology: Middle Paleolithic

Director and institution: Marie-Hélène Moncel (MNHN)

Archaeological site: **Olduvai Gorge**

Location: Tanzania

Chronology: Early Pleistocene

Director and institution: Ignacio de la Torre (CSIC)

Archaeological site: **YAS1 (Gona)**

Location: Afar Region, Ethiopia

Chronology: Middle Stone Age

Director and institution: Sileshi Semaw (CENIEH)

Congresses, Workshops & Seminars

Congresses, Workshops & Seminars organized by IPHES

R-workshop for the study of human evolution

Venue: Tarragona (online)
Date: 30th – 31st January
Organizers: IPHES



The “*R-workshop for the Study of Human Evolution*” was the first R programming course celebrating the date of 30 and 31 January 2020 at IPHES with a total duration of 20 hours. The course was organized by Antonietta Del Bove (Ph.D. student at URV) and Dr. Alessio Veneziano (Elettra Synchrotron Trieste) specialist in R programming, statistics and paleoanthropology, under the supervision of Prof. Carlos Lorenzo. The lessons were given by Dr. Alessio Veneziano and Dr. Antonio Profico (Marie Curie Fellowship at Palaeohub – Department of Archaeology, University of York), also specialist in paleoanthropology and R programming.

The first day of the course focused on introductory statistics, data visualization in Archaeology and Palaeontology; the second day introduced R for virtual Anthropology, Paleontology and Cross-sectional Geometry. Specifically, we started with the basics of the R language and then explored: 2D and 3D visualization tools in R (graphics, raster, etc.), spatial visualization of archaeological data, prospection mapping and interpolation, density distribution of archaeological data; missing data estimation, outlier detection, linear and non-linear regression techniques; PCA and CVA analyses.

On the second day we explored: Geometric Morphometric (GM) approaches using several R packages; 3D mesh manipulation, virtual reconstructions of fossil specimens via mirroring and surface warping; a tutorial on the use of Endomaker and CA-SLE tool (in the R package "Arothron") to analyse internal cavities of bones; a tutorial on the "morphomap" R package followed by case studies.

The workshop was held at IPHES with the help of URV for hosting the two guests (Dr. Veneziano and Dr. Profico); attendance to the workshop was free and reserved to IPHES students, doctorate and postdoctoral researchers. There were 15 participants.



3er Seminari d'Arqueobotànica IPHES

Venue: Tarragona (online)

Date: 7th May

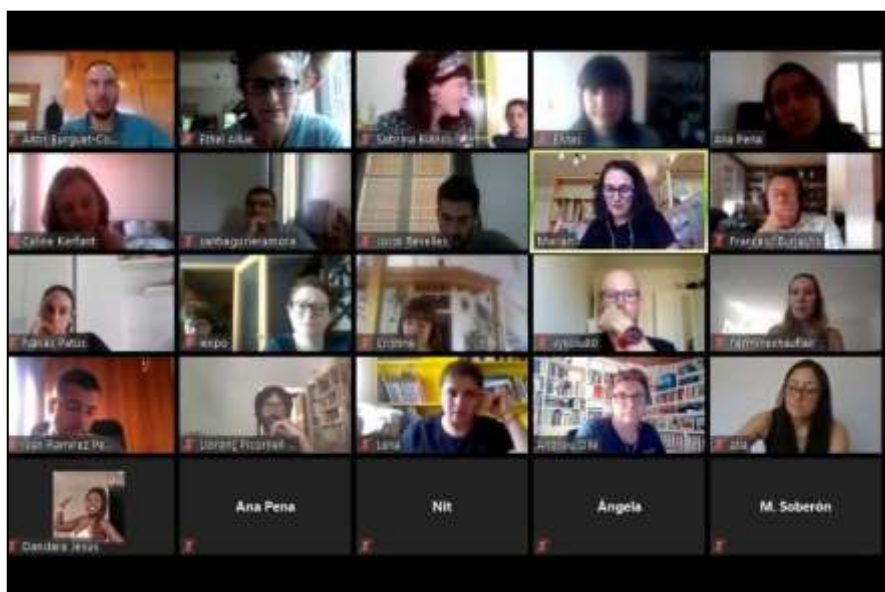
Organizers: IPHES

The aim of the Archaeobotany Seminar is to share scientific knowledge on the archaeobotanical research carried out at IPHES. The 3rd Archaeobotany Seminar had 3 sessions from which only two could be carried out with a virtual format. The field trip, planned to the Jardí Botànic de Blanes, was cancelled due to the pandemic.

The first session was held on May 7th and included 8 communications presented by students and researchers from IPHES. The topics included microcharcoal analyses, phytolith analyses, undergrowth storage organs and anthracology among other approaches. The second session held on December 9th was a session devoted to a talk on Sedimentary Microcharcoal by Walter Finsinger (UM1-ISEM, France).



Oral Presentations



Assistants at on of the virtual sessions of the 3rd Archaeobotany Seminar

Author: **Berihuete-Azorín, M.**

Oral presentation: CHUFA. Characterizing Underground storage organs for their Archaeological investigation.

Authors: **Bianco, S.**

Oral presentation: El combustible a la Barcelona de l'Edat Moderna (s. XV-XVIII): una aproximació a partir de les anàlisis antracològiques al Mercat del Born.

Authors: **Burguet-Coca, A.**

Oral presentation: La seqüència de fumiers de Cova Gran: una aproximació a l'estacionalitat a les coves redill.

Author: **Kerfant, C.**

Oral presentation: Manufacturing of a Neandertal cordage made at Abri du Maras (France).

Authors: **Mas, B.**

Oral presentation: Una tesis, un món: el projecte inicial.

Authors: **Pena, A.**

Oral presentation: Reconstruint el senyal d'incendis locals al Pla de Barcelona, ca. 8000-7500 cal BP.

Authors: Pichincura, A. G.

Oral presentation: El registre de partícules de carbó de Labo Espejo (39°S 72°O). 26,000 anys d'històries sobre el foc a la regió de l'Araucania (Xile).

Authors: **Revelles, J.**

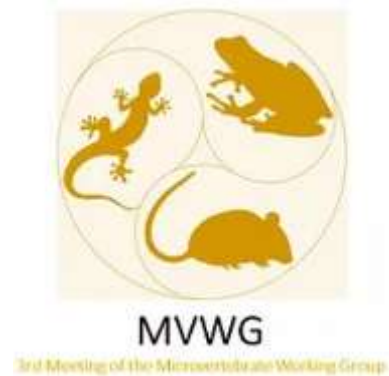
Oral presentation: Vegetation History and disturbance events in the Late Glacial- Early Holocene transition in NE Iberia: multi-disciplinary study of 'Pla de les Preses' record (La Garrotxa, Girona).

Meeting Microvertebrate Working Group

Venue: Tarragona

Date: 1st – 2nd September

Organizers: IPHES



The Microvertebrate Working Group (MVWG) was created in 2016 as a forum of the exchange of data and information related to the study of amphibians, reptiles, insectivores, bats and rodents from archeological sites, mainly from Eurasia and North Africa. After the two previous meetings in Alcalá de Henares (Madrid-2016) and Ankara (Turkey-2018), that had a great acceptance and a large number of participants, the third MVWG was celebrated in Tarragona on September 2020 with the aim to consolidate these meetings as a tool for specialists in small vertebrate to exchange the works done.

The third MVWG meeting celebrated in Tarragona was focused in the human-faunal interactions and new insights in reconstruction of past environments in archaeological deposits of different geographical regions, including as a topics taphonomy, commensalism, taxonomy, evolution, palaeoenvironmental reconstruction, biostratigraphy, biochronology and new and improved methodologies (such as morphometry, DNA or Isotope analyses).

The discussions that can be generated through a wide audience of researchers related to these topics, can give us a better understanding of how our ancestors lived and how was their relationship with the environment that surrounded them. Finally, a special issue in an international journal is derived from all these debates with the publications generated from the presentations in meeting

Oral Presentations

Authors: **Bañuls-Cardona, S., López-García, J. M., Lloveras Rsa, L., Nadal, J.**

Oral presentation: Climatic and environmental transition from latest Pleistocene to earliest Holocene in northeastern Iberia: Balma del Gai (Moià, Barcelona).

Authors: **Bisbal-Chinesta, J.F., Vergés, J.M., Blain, H.-A.**

Oral presentation: Palaeobiogeographic analysis of the amphibians and reptiles from the mid-late Holocene transition of El Mirador cave (Atapuerca, Spain) in the north-Iberian post-glacial context.

Authors: **Fernández-García, M., López-García, J.M. Royer, A.**

Oral presentation: The environment in NE Iberia during MIS 3, combining taxonomy, taphonomy and geochemistry on small-mammal assemblages.

Authors: **Jovanović, M., Bisbal-Chinesta, J.F., Đuric, D., Bogićević, K., Nenadić, D., Agustí, J., Blain, H.-A.**

Oral presentation: Late Pleistocene paleoenvironmental and paleoclimatic reconstructions in northern Balkan Peninsula based on small-vertebrates.

Authors: **Luzi, E.**, Rey-Rodríguez, I., **López-García, J.M.**, **Rodríguez-Álvarez, X.P.**, Lombera-Hermida, A., Fábregas-Valcarce, R.

Oral Presentation: Cryptic speciation in the fossil record? The case of Cova Eirós (Lugo, NW Iberian Peninsula).

Authors: **Martínez-Monzon, A.**, Cuenca-Bescós, G., **Bisbal-Chinesta, J.F.**, **Blain H.-A.**

Oral presentation: One million years of diversity shifts in amphibians and reptiles in a Mediterranean landscape: Resilience rules the Quaternary.

Authors: **Sánchez-Bandera, C.**, Oms, O., **Blain, H.-A.**, **Bisbal-Chinesta, J.F.**, **Lozano-Fernández, I.**, **Agustí, J.**, Solano-García, J., Jiménez Arenas, J.M.

Oral presentation: Stratigraphically constrained paleoenvironmental reconstructions for the Early Pleistocene site of Barranco León (Granada, SE Spain).

Authors: **Bisbal-Chinesta, J.F.**, **Blain, H.-A.**, **López-García, J.M.**, Sanz, M., Daura J.

Poster: First evidence for anuran translocation in the Late Neolithic to Bronze Age from North-Eastern Iberia (Cova Bonica, Barcelona).

Authors: **Blain, H.-A.**, Fagoaga, A., Ruiz-Sánchez, F.J., García-Medrano, P., **Ollé, A.**, Jiménez-Arenas, J.M.

Poster: Evidencing hominin ecological shift using herpetofaunal assemblages: the MIS 11 threshold in Europe.

Authors: Fagoaga, A., **Fernández-García, M.**, **López-García, J.M.**, **Blain, H.-A.**, Sánchez-López, L., Marquina-Blasco, R., **Vallverdú, J.**, Ruiz-Sánchez, F.J.

Poster: New approach in palaeoclimatic reconstructions of Cova dels Xaragalls (Tarragona, Spain) through UDA-ODA discrimination methodology. Comparing methods to discern climatic scenario for north-eastern Iberian Peninsula.

Authors: Marquina-Blasco R., Fagoaga A., Bailon S., **Blain H.-A.**, Mallol C., Hernández C.M., Galván B., Ruiz-Sánchez F.J.

Poster: Applying the UDA-ODA discrimination methodology to a herpetological association: the case of El Salt Subunit Xb (Middle Palaeolithic, Alcoi, Spain). Preliminary results.

Authors: **Moreno Ribas, E.**, **López-Polín, L.**, **Campeny Vall-Llosera, G.**, **Gómez de Soler, B.**

Poster: Conservation of fossil microfauna at Camp dels Ninots site (Caldes de Malvella, Girona, Spain).

Congresses, Workshops & Seminars attended by IPHES

National

VII Congreso Internacional del Neolítico en la Península Ibérica

Venue: Sevilla

Date: 29th January – 1st February

Organizers: Universidad de Sevilla

Authors: Cubas, M., Lucquin, A., Colonese, A. C., Arias, P., Fábregas-Valcarce, R., **de Lombera, A.**, Ontañón-Peredo, R., **Rodríguez-Álvarez, X.P.**, Craig, O.E.

Oral Presentation: Reconstrucción de las prácticas culinarias durante el Neolítico en el Norte peninsular.

Authors: **Tornero, C.**, **Díez-Canseco, C.**, **Ramírez-Pedraza, I.**, **Berihuete, M.**, **Expósito, I.**, Morales, J.I., Picornell-Gelabert, L., **Soto, M.**, **Carbonell, E.**

Oral presentation: Nuevos datos para el estudio del proceso de neolitización inicial de los Pirineos Orientales: la Bauma dels Fadrins, Queralbs, Girona.

Authors: **Messana C.**, **Tornero C.**, **Vergès J. M.**, Martín P., **Fontanals M**

Poster: Régimen de movilidad estacional de las comunidades ganaderas del Neolítico Antiguo a través de la com-binación de análisis arqueozoológicos y bioquímicos (isótopos estables): el caso de Font Major (Catalunya).

1er Seminari d'Arqueobotànica UAB

Venue: Barcelona (Online)

Date: 11th March – 20th May

Organizers: Universitat Autònoma de Barcelona

Authors: **Revelles, J.**

Oral presentation: Vegetation History and disturbance events in the Late Glacial- Early Holocene transition in NE Iberia: multi-disciplinary study of 'Pla de les Preses' record (La Garrotxa, Girona).

XVIII Encuentro de Jóvenes Investigadores en Paleontología (EJIP 2020)

Venue: Andorra (Teruel)

Date: 27th – 30th May

Organizers: Universidad de Zaragoza

Scientific Committee: **Antonio Pineda**

Authors: **Fernández-García, M.**, Arlegi, M. Gómez-Olivencia, A.

Poster presentation: The small-mammal assemblage from Koskobillo (Olazti, Navarre).

Biochronological, paleoecological and taphonomic notes

Webinar “Innovation Fridays”

Venue: Pamplona (Online)

Date: 25th September

Organizers: Gobierno de Navarra

Authors: **Arteaga, A.**, Bracco, E., Burusco, A., Sanz, J.

Oral presentation: Salidas profesionales en investigación: el Doctorado y su convocatoria de ayudas 2020-2021.

Jornada: Perspectiva de gènere en la recerca i violències

Venue: Online

Date: 17th November

Organizers: Universitat Rovira i Virgili

Authors: **Allué, E.**

Oral presentation: Preparation of an Advanced Grant Proposal to study the effects of fuel uses on past landscapes and human health (FUEL).

XVI CRAC Reunió tècnica “Documentar en Conservació-Restauració: mètodes i noves tecnologies”

Venue: Barcelona (Online)

Date: 3rd - 12th November

Organizers: Conservadors Restauradors Associats de Catalunya

Authors: **Valtierra, N.**, Courtenay, L., **López-Polín, L.**

Oral presentation: La microscopía digital 3D para evaluar los tratamientos de limpieza en el material óseo arqueológico.



Noé Valtierra during his participation at XVI CRAC meeting. @ConRestACat

*International***First Neandroots meeting**

Venue: Paris

Date: 23rd – 24th January

Organizers: Museum National d'Histoire Naturelle (Paris) / Institut de Paléontologie Humaine (IPH)

Authors: **Ollé, A.**, García-Medrano, P.

Oral Presentation: A general view on the Iberian MIS11 sites initially included in the project (Atapuerca, Áridos and la Cansaladeta)

4th Integrated Microscopy Approaches in Archaeobotany (IMAA) workshop

Venue: Reading

Date: 15th – 16th February

Organizers: University of Reading

Authors: Polo-Díaz, A., **Burguet-Coca, A.**, **Burjachs, F.**, Fernández-Eraso, J., **Vergès, J.M.**

Oral Presentation: A close-up view of fodder: integrating geoarchaeology and archaeobotany to understand livestock diets and early animal husbandry in the Iberian Peninsula

International Conference: River Culture in Africa. Natural and cultural diversity of the riverscapes

Venue: Université Gaston Berger de Saint-Louis du Sénégal (Sénégal)

Date: 18th – 20th February

Organizers: UNESCO Chair

Authors: **Arroyo, A.**

Oral Presentation: More than stones: what primate tools can tell us about early hominin technologies.

New methodologies in Primate Archaeology

Venue: Tübingen

Date: 27th – 28th February

Organizers: Dr. Elisa Bandini and Dr. Alba Motes-Rodrigo

Authors: Aouraghe, H., Sala-Ramos, R., **Chacón M.G.**, Haddoumi, H., Agustí, J., Van der Made, J., Souhir, M., El Atmani, A.

Oral Presentation: Evolution du peuplement humain pendant le Quaternaire autour du fleuve El Haï-Charef (Maroc Oriental) & développement local.

89th Annual Meeting of the American Association of Physical Anthropologists, Los Angeles, California, USA

Venue: Los Angeles, USA

Date: 15th – 18th March

Organizers: American Association of Physical Anthropologists

Authors: **Willman, J.C.**, Lacy, S.A,

Invited Poster Symposium: Pre-Natufian Epipaleolithic evidence for dental ablation in southwest Asia? Revisiting Ohalo II H2

Authors: Williams, F.L., Schmidt, C.W., Droke, J.L., **Willman, J.C.**, Neruda, P., Becam, G., de Lumley, M.-A.

Poster: Inferring the diet of Kůlna 1 and Svédův stůl 1 from the Moravian karst of the Czech Republic using dental microwear texture analysis.

Paleoanthropology Society 2020 Meeting Los Angeles

Venue: Los Angeles (USA)

Date: 14th – 15th April

Organizers: Paleoanthropology Society

Authors: **Sánchez-Bandera, C.**, **Blain, H.-A.**, **Lozano-Fernández, I.**, **Bisbal-Chinesta, J.F.**, **Agustí, J.**, Oms, O., **Titton, S.**, Serrano-Ramos, A., Luzón, C., **Barsky, D.**, García-Solano, J.A., Fortelius, M., Jiménez-Arenas, J.M.

Poster: New data for the ecology of Early Pleistocene hominins from the Orce sites.

62nd Annual Meeting of the Hugo Obermaier Society

Venue: Brno (Germany) (Online)

Date: 14th – 18th April

Organizers: Hugo Obermaier Society

Authors: **Ramírez-Pedraza, I.**, Prilepskaya, N.E., Baryshnikov, G.F., Belyaev, R.I., Bustos-Pérez, G., **Rivals, F.**

Poster: Comparing the latest diets of three Russian cave bear taxa.

European Geophysical Union General Assembly

Venue: Austria

Date: 3rd – 8th May

Organizers: European Geophysical Union

Authors: Bocherens, H., **Blain, H.**, Fortelius, M., Saarinen, J., **Sánchez-Bandera, C.**, García-Solano, J. A., **Barsky, D.**, Luzón, C., Jimenez-Arenas, J. M.

Oral Presentation: Palaeoenvironment of the earliest hominins in western Europe: the Guadix-Baza Basin.

Archaeology from home: Connecting things and thoughts

Venue: Indina (Online)

Date: 22th – 27th June

Organizers: Dr. Prachi Joshi, Dr. Paromita Bose, Dr. Mokshada Salunke, Ms. Sutonuka Bhattacharya, Mr. Chintan Thakar

Authors: **Arteaga, A.**

Oral Presentation: What is this stone doing among so many bisons? Developing a new research project in Gran Dolina-TD10.2, Atapuerca.

26th Annual Meeting of the European Association of Archaeologist (EAA)

Venue: Online

Date: 26th – 30th August

Organizers: European Association of Archaeologists

Authors: **Gamarra, B.**, McCall, A., **Del Bove, A.**, Koós, J., Csengeri, P., Kalli, A., Domboróczki, L., Anders, A., Feeney, R.N.M., Pinhasi, R.

Oral Presentation: Dental morphological analysis of Neolithic to Iron Age populations from the Great Hungarian Plain. A Geometric Morphometrics approach.

MESO '2020 - Tenth International Conference on the Mesolithic in Europe

Venue: Toulouse (France)

Date: 7th – 11th September

Organizers: Perrin, T., Marquebielle, B., Philibert, S., Valdeyron, N.

Authors: **Berihuete-Azorín, M.**, Piqué, R., Alcolea, M., Robson, H.

Session: Multidisciplinary approaches to the uses of plants as food, medicine and raw material by Mesolithic communities.

Authors: **Berihuete, M.**, Lozovskaya, O., Piqué, R.

Oral presentation: Fishing nets and string at the Final Mesolithic and Early Neolithic site of Zamostje 2, Sergiev Posad (Russia).

Authors: **Díez-Canseco, C.**, **Ramírez-Pedraza, I.**, **Berihuete, M.**, **Expósito, I.**, Morales, J.I., Picornell-Gelabert, L., Soto, M., **Carbonell, E.**

Oral Presentation: A new Mesolithic site in the Eastern Pyrenees: the Bauma dels Fadrins (Queralbs, Girona).

Authors: Fernández-López de Pablo, J., Polo-Díaz, A., Poch, R.M., Ferrer, C., Gómez-Puche, M., **Burjachs, F.**

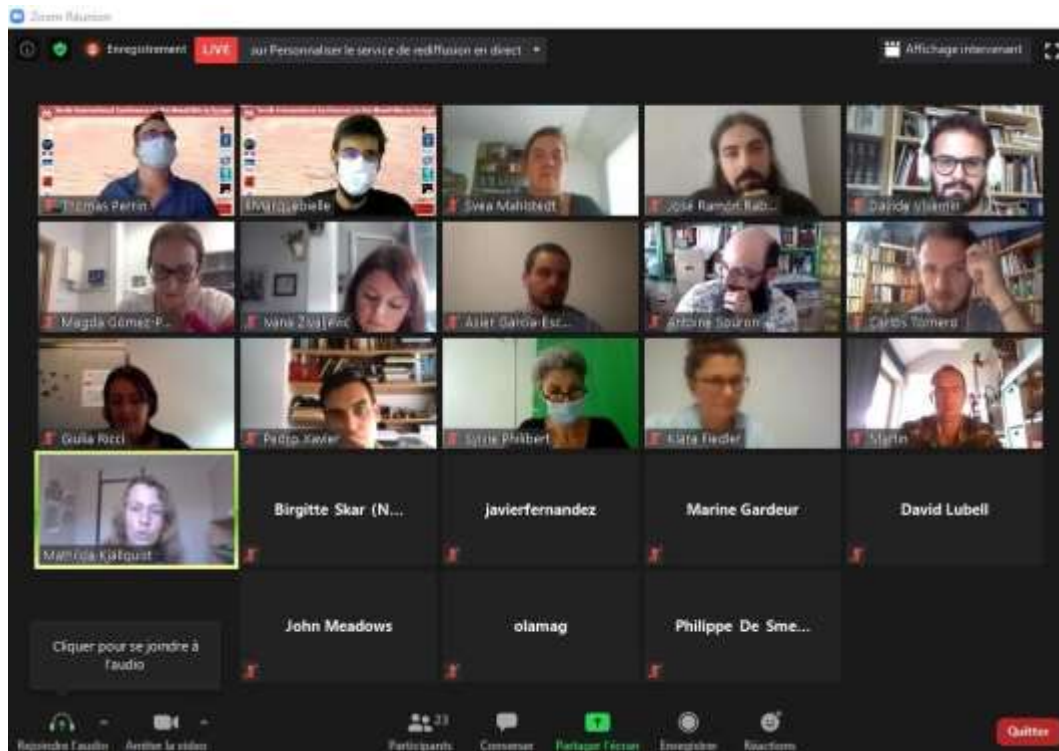
Oral presentation: A multi-proxy research program to evaluate the relationship between Mesolithic occupation patterns and Early Holocene environmental dynamics in the Upper Vinalopó Valley (SE Iberian Peninsula).

Authors: **Revelles, J.**, Iriarte, E., Finsinger, W., Burjachs, F., Martí, J., Planagumà, Ll., Saña, M.

Oral presentation: Socio-ecological impact of last volcanic eruptions in the Iberian Peninsula in the Late Glacial- Early Holocene transition: multi-proxy analysis results from the Pla de les Preses palaeolake (Vall d'en Bas, La Garrotxa, NE Iberia).

Authors: Ros Sabé, E., **Berihuete, M.**, Antolín, F., Piqué, R., Edo, M.

Oral presentation: The exploitation of wild plant resources in Can Sadurní Cave site (Begues, Spain) during the last hunter-gatherer occupations (11.000-6000 cal BC).



Carlos Tomero participating in the MESO'20 conference. @meso10_2020

European Society for the study of Human Evolution 2020 Conference

Venue: Online

Date: 24th – 25th September

Organizers: European Society for the study of Human Evolution

Authors: **Bianco S.**, Soberón Rodríguez M., **Allué E.**, Riera Mora S.

Oral Presentation: Fuel from the port: charcoal analysis and archival documents to study the wood fuel supply in Barcelona (14th-18th centuries).

Authors: **Blain, H.-A.**, Fortelius, M., Saarinen, J., Tallavaara, M., **Sanchez Bandera, C.**, García-Solano, J.A., **Barsky, D.**, Luzón, C., **Agustí, J.**, Oms, O., Jiménez Arenas, J.M.

Oral Presentation: Out of Savannahstan: Multiproxy evidence on fauna (stable isotopes, ecometrics, tooth mesowear, small vertebrates) from earliest hominin sites in Southwestern Europe (Guadix-Baza Basin, Spain).

Authors: **Del Bove, A.**, Profico, A., **Lorenzo, C.**

Oral presentation: Automatic detection of sexual dimorphic traits in the human cranium

Authors: **Bucchi, A. Püschel, T. A.**, Profico, A., **Lorenzo, C.**

Oral Presentation: Carpal modularity across extant hominids.

Authors: Noerwidi, S., Vialet, A., Widiyanto, H., **Lorenzo, C.**, Suriyanto, R.A., Nurani, I.A., Yondri, L., Setiawan, T., Joordens, J., Simanjuntak, T., Sémah, F.

Oral presentation: Homo sapiens dental variability during the Holocene in Western Indonesian archipelago.

Authors: **Arteaga, A., Asryan, L., Mosquera, M., Ollé, A.**

Poster: The lithic assemblage of the Gran Dolina-TD10.2 kill-butcherer site (Sierra de Atapuerca, Spain).

Authors: **Moreno-Ibáñez, M.A, Ramírez-Pedraza, I., Díez-Canseco, C., Saladié, P., Carbonell, E., Tornero, C.**

Poster: Reopening a grave: preliminary taphonomic results of the human remains from the Roc de les Orenetes site (Queralbs, Spain)

Authors: **Gamarra, B., Del Bove, A., Lozano, M., Vergès, JM.,** Morales, J.I., Cebrià, A., Oms, X., **Tornero, C.,** Gómez-Bach, A., Subirà, E.

Poster: Dental morphological analysis of Holocene Iberian populations: the utility of enamel dentine junction in population dynamics.



IPHES's members during their online participation in the ESHE annual meeting. @miguel_preh

Quaternary Stratigraphy – palaeoenvironment, sediments, fauna and human migrations across Central Europe International conference dedicated to the 70th Birthday Anniversary of prof. Adam Nadachowski

Venue: Wrocław (Poland) and Online

Date: 28th September

Organizers: University of Wrocław, Poland

Authors: Berto, C., **Blain, H.-A.**, Szymanek, M., Kot, M.

Oral Presentation: Climate and environment during the Early Holocene in the Sąspow Valley (Kraków-Częstochowa Upland, Poland). Preliminary data from small vertebrates and molluscs.

Authors: **López-García, J. M.** Luzzi, E.

Oral Presentation: Role of the Common and the Field Vole for Climate and Landscape Reconstructions during the Late Pleistocene in Iberia.

Evolution de la biodiversité depuis plus d'un million d'années et rapports entre l'Homme et son environnement sur le littoral méditerranéen

Venue: Online

Date: 1st – 2nd October

Organizers: Laboratoire de Préhistoire Nice Côte d'Azur-Institut de Paléontologie Humaine

Authors: **Martínez-Navarro, B.**

Oral Presentation: Early Pleistocene faunal assemblages and human records in southern Europe.

Multidisciplinary studies of Neanderthal hunting. Virtual Seminar Series

Venue: Online

Date: 28th October

Organizers: Department of Human Evolution. MaxPlanck Institute for Evolutionary Anthropology. (Germany.)

Authors: Moncel, M.H., Hardy, B., Fernandes, P., **Chacón M.G.**, Daujeard, C., Marín, J., Vettesse, D.

Oral Presentation: Strategies of Neanderthal occupations from the MIS 5 to 3 at the Abri du Maras (South-West France).

Annual Meeting of the Canadian Association for Physical Anthropology (CAPA-ACAP)

Venue: Online

Date: 4th - 6th November

Organizers: Canadian Association for Physical Anthropology (Canada)

Authors: **Rangel-de Lázaro, G.**, Martínez-Fernández, A., Rangel-Rivero, A., Benito-Calvo, A.

Oral presentation: Application of 3D scanning techniques for the digitalization of pre-Columbian crania collections

Virtual Seminar Series – Multidisciplinary studies of Neanderthal Hunting

Venue: Online

Date: 18th November

Organizers: Max Planck Institute (Deutschland)

Authors: Real, C., **Pérez, L.**, Sanchís, A.

Oral Presentation: Neanderthal hunting dynamics in Mediterranean Iberian and Cantabrian area: the role of prey, processing strategies and environment

#AGU20 Fall Meeting.

Venue: Online

Date: 1st - 17th December

Organizers: American Geophysical Union

Authors: Parés, J.M., Álvarez, C., Pla-Pueyo, S., Benito-Calvo, A., Duval, M., Aouraghe, H., Haddoumi, H., Rodríguez-Hidalgo, A., Oujaa, A., Agustí, J., **Chacón, M.G., Sala-Ramos, R.**

Oral Presentation: Strategies of Neanderthal occupations from the MIS 5 to 3 at the Abri du Maras (South-West France)

ICON Archaeology Group Emerging Professional Webinar

Venue: Online

Date: 8th December

Organizers: ICON Archaeology Group

Authors: **Díaz, A.**, Jiskoot, J., **Valtierra, N.**

Oral Presentation: New lines of research on archaeological bone

Short-term stays at other research centers

National

Center: **Centro Nacional de Investigación sobre la Evolución Humana (CENIEH)**

IPHES' member: **Diego Lombao**

City: Burgos

Dates: 17th February – 13th March

Scientific purpose: Technological analysis and photogrammetry of lithic pieces from TD6, TD10 and Galería Complex.

Center: **Museo de Burgos**

IPHES' member: **Diego Lombao**

City: Burgos

Dates: 24th February – 4th March

Scientific purpose: Technological analysis and photogrammetry of lithic pieces from TD6, TD10 and Galería Complex.

Center: **Universitat Autònoma de Madrid**

IPHES' member: **Susana Alonso**

City: Madrid

Dates: 2nd – 5th March

Scientific purpose: Study of the lithic industry collection of Parque Darwin Site.

Center: **Museo Arqueológico de Baza**

IPHES' member: **Bienvenido Martínez-Navarro**

City: Baza (Granada)

Dates: 9th – 21st October

Scientific purpose: Study of the faunal record of the Pliocene site of Baza 1 and sieving of the sediment coming from the systematic excavation.

International

Center: **Computational Archaeology Laboratory - The Hebrew University of Jerusalem (Israel)**

IPHES' member: **Deborah Barsky**

City: Jerusalem (Israel)

Dates: 26th January – 3rd February

Scientific purpose: Three-dimensional scanning and geometric morphometric study of spheroids from the Acheulian site of Ubeidiya in the framework of the Gerda Henkel Project (LPSP) led by myself.

Center: **Laboratório de Arqueociências da Direção Geral do Património Cultural (LARC)**

IPHES' member: **Juan Manuel López García**

City: Lisbon (Portugal)

Dates: 27th – 31st January

Scientific purpose: Study of the small mammal material from the Late Pleistocene site of Lagar Velho (Leiria, Portugal).

Center: **National Museum of Ethiopia**

IPHES' member: **Isabel Cáceres**

City: Addis Abeba (Portugal)

Dates: 28th January – 13th February

Scientific purpose: Taphonomical Analysis of fossils from Gona sites.

Center: **UMR7194 « Histoire Naturelle de l'Homme Préhistorique » (HNHP), Muséum national d'Histoire naturelle, Musée de l'Homme & Institut de Paléontologie Humaine**

IPHES' member: **Gema Chacón**

City: Paris (France)

Dates: 3rd – 16th February

Scientific purpose: Study of Middle Palaeolithic lithics assemblages from Abri du Maras (Saint-Martin d'Ardèche, France) and training in refits and spatial pattern analysis to Pierre Guillemot (Master 1 student).

Center: **CEREGE (CNRS UMR7330/ Aix-Marseille Université)**

IPHES' member: **Jordi Revelles**

City: Aix-en-Provence (France)

Dates (start/ end): 1st October – 31st December

Scientific purpose: sampling, preparation and analysis of pollen samples from Corsican (Girolata 2, Ma-cinaggio and Biguglia) and Sardinian cores (Padro 4).

Internal research lectures

"Camins de pedra - L'art moble del Molí del Salt".

Author: Teresa Duch and Manuel Vaquero

Organizer: IPHES

City: Tarragona

Date: 9th January

Presiones selectivas en la evolución de la mano en humanos

Author: Ana Bucchi

Organizer: IPHES

City: Tarragona

Date: 16th January

Sexual dimorphism, crania, modern human, gm and others fantasy storytelling about my Ph.D

Author: Antonia Del Bove

Organizer: IPHES

City: Tarragona

Date: 23rd January

Siku 15 huko Olduvai (Tanzania): A trip to plan a Project on fuel ethnoarchaeology

Author: Ethel Allué

Organizer: IPHES

City: Tarragona

Date: 9th February

Dental stories and other tales

Author: Beatriz Gamarra

Organizer: IPHES

City: Tarragona

Date: 13th February

The Sant Martí de Tous Project

Author: Bruno Gómez de Soler and Miguel Soares

Organizer: IPHES

City: Tarragona

Date: 5th March



Bruno Gómez and Miguel Soares during their conference at IPHES

Evaluation of Research projects by MICIU-AEI-2020. A personal view.

Author: Marina Mosquera

Organizer: IPHES

City: Tarragona

Date: 29th September

El laboratori de Micropaleontologia i la col.lecció osteològica de petits vertebrats de l' IPHES

Author: Mónica Fernández-García

Organizer: IPHES

City: Tarragona

Date: 22th October

The Last Interglacial-Glacial cycle in the Meuse valley (southern Belgium) inferred from the amphibian and reptile assemblages

Author: Hugues A. Blain

Organizer: IPHES

City: Tarragona

Date: 29th October

Palaeoenvironmental and palaeoclimatic reconstruction in relation with the Middle to Late Pleistocene human occurrence in the Near East

Author: Iván Rey

Organizer: IPHES

City: Tarragona

Date: 5th November

Combining biotic proxies to reconstruct the environment of western Europe's Last Interglacial Nean-derthals: the micromammal assemblage from Gruta da Oliveira (Torres Novas, Portugal)

Author: Juan Manuel López-García

Organizer: IPHES

City: Tarragona

Date: 12th November

Use of 3D geometric morphometrics in hominins cranium and brain evolution

Author: Alfred Suesta

Organizer: IPHES

City: Tarragona

Date: 19th November

Socio-ecological impact of last volcanic eruptions in Iberia in the Late Glacial-Early Holocene transition

Author: Jordi Revelles

Organizer: IPHES

City: Tarragona

Date: 26th November

La distinción del IPHES como UNidad de Excelencia María de Maeztu: implicaciones y objetivos de futuro

Author: Xosé Pedro Rodríguez

Organizer: IPHES

City: Tarragona

Date: 3rd December

Integrating buccal and occlusal dental microwear with isotope analyses for a complete paleodietary reconstruction

Author: Beatriz Gamarra

Organizer: IPHES

City: Tarragona

Date: 2nd December

Visiting Scholars

The cultural heritage at Aousserd Province (Dakhla-Oued Eddahab Region, Morocco)

Author: Aicha Oujaa

Organizer: IPHES

City: Tarragona

Date: 30th January



Aicha Oujaa during his conference at IPHES

Late Middle Paleolithic site of Farah II: environmental and cultural contexts at the brink of transition to the Upper Paleolithic in the southern Levant

Author: Mae Goder-Goldberger

Organizer: IPHES

City: Tarragona

Date: 20th February

SSHRC Post-Doctoral Grant: Snapshots of the Canadian Research Council through the SDS Project

Author: María Soto

Organizer: IPHES

City: Tarragona

Date: 27th February

Long-term fire history in southern and southern-eastern European mountains

Author: Walter Finsinger

Organizer: IPHES

City: Tarragona

Date: 9th December

Awards and recognitions

Unidad de Excelencia “María de Maeztu” (CEX2019-000945-M) for the period between 2020 and 2023

IPHES <http://www.iphes.cat/excelencia-mar%C3%ADa-de-maeztu>

Entity: Ministerio de Ciencia e Innovación. Gobierno de España



Academy



Degrees, Master and Doctoral Programme

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

IPHES Academy Responsible: Dr. Carlos Lorenzo (carlos.lorenzo@urv.cat).

Some IPHES members also participate in the Master's degree in Primatology, managed by the Universitat de Girona – Fundació UdG: Innovació i Formació and the Fundació Mona.

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 consortia comprising the International Master in Quaternary and Prehistory (IMQP) by the following institutions:

- University of Ferrara (Italy)

- Universitat Rovira i Virgili (Spain)
- Polytechnic Institute of Tomar (Portugal)
- National Museum of Natural History (Paris, France)

Doctoral Programme in Quaternary and Prehistory

The aim of the 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 the 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

Research topics of the doctorate programme:

- Lithic technology
- Zooarchaeology and taphonomy
- Paleoanthropology
- Paleontology
- Geoarchaeology
- Evolution of the human behavior and cognition
- Molecular archaeology
- Computer applications to archaeology
- Paleoenvironmental restitution
- Prehistoric art
- Heritage dissemination
- Human paleoecology

This doctoral programme represents the continuation of the previous doctoral programme in Quaternary and Prehistory (Erasmus Mundus).

Master's degree in Primatology

This master's degree offers a high-quality training that allows the student to achieve the knowledge and skills necessary to carry out tasks and research activities in the field of primatology and other related sciences. This diploma is eminently practical, with a dynamic and participatory theoretical approach, which motivates the analytical and reflective capacity of the students throughout the course from an interdisciplinary and integrating point of view.

PhD thesis supervised and defended during 2020

Etude géologique et paléontologique du bassin Quaternaire d'Oued Sarrat au Nord -Ouest de la Tunisie

PhD student: Lamjed Amri

University: Carthage, Tunisia

Department: Faculté des Sciences de Bizerte,

Date of presentation: 15th January

Director/s: **Bienvenido Martínez-Navarro** and Narjess Karoui-Yaakoub

Identificación de áreas de actividad e interacciones *intra-site* a través del estudio de remontajes líticos en el Pleistoceno medio en el Nivel TD10.1 de Gran Dolina (Sierra de Atapuerca, Burgos)

PhD student: **Esther López Ortega**

University: Universitat Rovira i Virgili

Department: Història i Història de l'Art

Date of presentation: 14th February

Director/s: **Xosé Pedro Rodríguez-Álvarez** and **Andreu Ollé**



Esther López-Ortega during her Ph.D. defense

Hominin diversity in the western Indonesian archipelago during the Quaternary: a dental record perspective

PhD student: Sofwan Noerwidi

University: Universitat Rovira i Virgili

Department: Dep. Història i Història de l'Art

Date of presentation: 27th May

Directors: **Carlos Lorenzo**, François Semah, Amelie Vialet

Neanderthal paleoecology during the Middle Palaeolithic in the North and East of the Iberian Peninsula. Combined analysis of tooth wear and cementochronology

Ph. D. Student: **Carlos Sánchez-Hernández**

University: Universitat Rovira i Virgili

Department: Història i Història de l'Art

Date of presentation: 04rd June

Directors: **Florent Rivals** and Lionel Gourichon

Changes in animal husbandry, diet and animal trade in Tunisia from the Iron Age to the Roman period: an archeozoological approach

Ph. D. Student: **Mohamed Azaza**

University: Universitat Rovira i Virgili

Department: Història i Història de l'Art

Date of presentation: 22nd June

Directors: Lidia Corominas and **Robert Sala**

Approaches for assessing whether the human hand evolved by natural selection in adaptation to stone tool use

Ph. D. Student: **Ana Bucchi**

University: Universitat Rovira i Virgili

Department: Història i Història de l'Art

Date of presentation: 29rd June

Directors: **Carlos Lorenzo**

Biogeografía e impacto humano en las comunidades de anfibios y reptiles del Cuaternario final en la Península ibérica: La Cueva de El Mirador (Atapuerca, Burgos) y la población de *Chalcides ocellatus* (Scincidae) de la Serra del Molar (Alicante)

Ph. D. Student: **José Francisco Bisbal Chinesta**

University: Universitat Rovira i Virgili

Department: Història i Història de l'Art

Date of presentation: 23rd June

Directors: **Hugues A. Blain**

Neanderthal subsistence strategies at the Mediterranean Basin: Zooarchaeological and taphonomic study of Abric Romaní, Abri du Maras and Bize-Tournal

PhD student: **Juan Marín Hernando**

University: MNHN/UNIFE

Department: Histoire naturelle de l'Homme Préhistorique / UMR7194

Date of presentation: 29th July

Director/s: **Palmira Saladié, Antonio Rodríguez-Hidalgo**, Christophe Falguères, Marta Arzarello, Anne-Marie Moigne and Camille Daujeard



Juan Marín during his Ph.D. defense

Gestión de materiales silíceos macrocristalinos en el Pleistoceno de Europa occidental. Evolución de las estrategias de adaptación a los condicionantes litológicos

PhD student: Arturo de Lombera-Hermida

University: Universidade de Santiago de Compostela

Department: Departamento de Historia

Date of presentation: 10th September

Director/s: Ramón Fábregas-Valcarce and **Xosé Pedro Rodríguez-Álvarez**

Carnivores at the Stage: Neo-Taphonomy of Wild Carnivores in the Pyrenees (Catalonia, Iberian Peninsula) and its Implementation on the Ecology and Behavior of Ancient Hominins.

PhD student: **Maite Arilla Osuna**

University: Rovira i Virgili

Department: Història i Història de l'Art

Date of presentation: 16th September

Director: **Jordi Rosell** and Ruth Blasco

Procesos de reducción en la industria lítica: cambio diacrónico y patrones de ocupación en el Paleolítico Medio de la Península Ibérica

Ph. D. Student: Guillermo Bustos Pérez

University: Universidad Autónoma de Madrid

Department: Prehistoria y Arqueología

Date of presentation: 21st September

Directors: Javier Baena and **Manuel Vaquero**

Atapuerca como matriz disciplinar. Aproximación a un proceso sistémico de dinamización de un patrimonio cultural. 1991-2020

Ph. D. Student: Alejandro Saramiento Carrión

University: Universitat Rovira i Virgili

Department: Història i Història de l'Art

Date of presentation: 29th September

Directors: **Eudald Carbonell**

Comparative study of the craft traditions in the Batanes islands (Philippines) and Lanyu Island (Taiwan, Republic of China) based on plant anatomy-phytolith analysis and ethnobotany

Ph. D. Student: Céline Kerfant

University: Universitat Rovira i Virgili

Department: Història i Història de l'Art

Date of presentation: 8th October

Directors: **Ethel Allué** and Victor Paz



Céline Kerfant during her Ph.D. defense

Pratiques d'élevage entre l'Empordà et le Languedoc à l'âge du Fer. Archéozoologie, alimentation animale et saisonnalité

Ph. D. Student: Sergio Himénez Manchón

University: Université Paul Valéry, Montpellier (France)

Department: Ecole Doctorale 60

Date of presentation: 16th December

Directors: Armelle Gardeisen and **Florent Rivals**

El fuego en la prehistoria. Una aproximación arqueo-experimental al registro piroarqueológico a través de la microarqueología

Ph. D. Student: Aitor Buguet-Coca

University: Universitat Rovira i Virgili

Department: Història i Història de l'Art

Date of presentation: 17th December

Directors: **Ethel Allué**, Dan Cabanes and Rafael Mora



Aitor Buguet-Coca during his Ph.D. defense

Master Thesis supervised and defended during 2020

Estudio e intervención de Conservación y Restauración en microfauna fósil e improntas vegetales del yacimiento paleontológico del Camp dels Ninots (Caldes de Malavella, Girona)

Student: **Elena Moreno**

Center: Escuela Superior de Conservación y Restauración de Bienes Culturales de Galicia

Date of presentation: 6th July

Directors: Carmen Lorenzo and **Lucía López-Polín**

Analysis of a partial skeleton of a Pliocene mole (Talpidae, Mammalia) from Camp dels Ninots (Caldes de Malavella, Girona)

Student: Adriana Linares-Martin

University: Universitat Autònoma de Barcelona and Universitat de Barcelona

Date of presentation: 14th July

Directors: Marc Furió and **Bruno Gómez de Soler**

Paleoparasitology and its application. The case of La Draga lakeside settlement and fumiers contexts of El Mirador and Can Sadurní caves

Student: Erika Buitkute

University: Universitat Rovira i Virgili

Date of presentation: 10th September

Director/s: Matthieu Le Bailly and **Jordi Revelles**

Les remontages lithiques en silex du niveau 5.3 de l'Abri du Maras (Paléolithique moyen, Ardèche, France)

Student: Pierre Guillemot

University: MNHN Paris (France)

Date of presentation: 16st September

Directors: Marie-Hélène Moncel and **Gema Chacón**

Local fire history reconstruction in the NE Barcelona Plain (Catalonia, Spain), ca. 8000-7500 cal years BP.

Student: Ana Pena Pérez

University: Rovira i Virgili

Date of presentation: 21st September

Directors: Santiago Riera Mora and **Francesc Burjachs Casas**

Quantification des micro-usures dentaires de *Trachypithecus auratus* fossiles de l'Holocène de Song Terus, Java, Indonésie : reconstruction d'un régime alimentaire

Student: Camille Ascari

University: MNHN Paris (France)

Date of presentation: 21st September

Directors: Thomas Ignicco and **Florent Rivals**

Identification of ritual cannibalism through the frequency and distribution of butchery marks from El Mirador

Student: Francesc Marginedas Miró

University: Universitat Rovira i Virgili

Date of presentation: 21th September

Director: **Palmira Saladié**

Paleocarpological analysis of the V-IV millennium BC Neolithic fumier layers from El Mirador (Sierra de Atapuerca)

Student: Nit Cano

University: Universitat Rovira i Virgili

Date of presentation: 21st September

Directors: **Ethel Allué** and Natàlia Alonso



Students of the Master Erasmus Mundus during the defense of the Master Thesis.

Técnicas de recuperación in situ de material óseo en entornos húmedos: el caso de la Grotte de la Carrière (Pirineos Orientales, Francia)

Student: Júlia Jiskoot Busquets

University: Universitat Rovira i Virgili

Date of presentation: 21st September

Director: **Lucía López-Polín**

Sequential analysis on sheep dentin collagen ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$): a new modern reference dataset and an updated proposal to its integration on archaeological herding management studies

Student: **Celia Díez-Canseco**

University: Universitat Autònoma de Barcelona

Date of presentation: 9th November

Directors: **Carlos Tornero** and E. Gassiot

TFG supervised and defended during 2020

Estudi antropològic i paleopatològic de l'individu "la iaia" (Moià, Barcelona).

Student: Roger Abancó Fontcuberta

University: URV-UOC

Date of presentation: 15th June

Director: **Marina Lozano**

Las señales tafonómicas del canibalismo en los conjuntos prehistóricos desde el Paleolítico superior hasta la Edad del Bronce

Student: Eva Ruano

University: URV-UOC

Date of presentation: 15th June

Director: **Palmira Saladié**

Estudio tafonómico de la violencia durante el Pleistoceno; análisis de siete posibles casos

Student: German Estrada

University: URV/UOC

Date of presentation: 15th June

Director: **Palmira Saladié**

El paper de l'ocre en l'evolució del comportament simbòlic humà en el paleolític mitjà i l'edat de pedra mitjana

Student: David Gaitero Santos

University: Universitat Oberta de Catalunya

Date of presentation: 17th June

Director: **Deborah Barsky**

Primeres aproximacions a les ocupacions del paleolític superior a la Cova del Cudó (Mont-ral, Alt Camp).

Student: Míriam Salas

University: Universitat Rovira i Virgili

Date of presentation: 14th September

Director: **Josep Maria Vergès**

Participation in tribunals of PhD Thesis defended during 2020

Identificación de áreas de actividad e interacciones *intra-site* a través del estudio de remontajes líticos en el Pleistoceno medio en el nivel TD10.1 de Gran Dolina (Sierra de Atapuerca, Burgos)

Student: Esther López-Ortega

University: Universitat Rovira i Virgili

Date of presentation: 14th February

IPHES's members of the Jury: **Deborah Barsky**

Morphology of the inner structures of the facial skeleton in *Homo neanderthalensis* and the case-study of the Neanderthal from Altamura (Bari, Italy)

Student: Buzi, C.

University: Sapienza Università di Roma

Date of presentation: 20th February

IPHES's members of the Jury: **Carlos Lorenzo**

Evolutionary history of Canidae (Carnivora, Mammalia) and Lyncodontini (Mustelidae, Carnivora) in the Plio-Pleistocene of the Old World

Student: Saverio Bartolini Lucenti

University: Pisa (Italy)

Date of presentation: 22nd May

IPHES's members of the Jury: **Bienvenido Martínez-Navarro**

Estudio Paleoambiental de la Región Central del Mediterráneo Ibérico durante El Pleistoceno a partir de las Faunas de Microvertebrados de los Yacimientos de El Salt y Abric del Pastor (Alcoi, Alicante)

Student: Ana Fagoaga

University: Universitat de València

Date of presentation: 4th June

IPHES's members of the Jury: **Juan Manuel López-García**

Neanderthal paleoecology during the Middle Palaeolithic in the North and East of the Iberian Peninsula. Combined analysis of tooth wear and cementochronology

Ph. D. Student: **Carlos Sánchez-Hernández**

University: Universitat Rovira i Virgili

Date of presentation: 4th June

IPHES's members of the Jury: **Isabel Cáceres**



Carlos Sánchez after his Ph.D. defense.

Estudio comparativo de las cavidades del oído externo, medio e interno y establecimiento de la potencia sonora en homínidos

Student: Mercedes Conde-Valverde

University: Universidad de Alcalá

Date of presentation: 8th June

IPHES's members of the Jury: **Carlos Lorenzo**

Understanding the Beginning of Herding Through the Study of Rock Art: The Case of Borana in Southern Ethiopia

Student: Tadele Bekele Solomon

University: Università degli Studi di Ferrara

Date of presentation: 11th June

IPHES's members of the Jury: **Manuel Vaquero**

Changes in animal husbandry, diet and animal trade in Tunisia from the Iron Age to the Roman period: an archeozoological approach

Student: Mohamed Azaza

University: Universitat Rovira i Virgil

Date of presentation: 22nd June

IPHES's members of the Jury: **Carlos Lorenzo**

Approaches for assessing whether the human hand evolved by natural selection in adaptation to stone tool use

Student: **Ana Bucchi Morales**

University: URV

Date of presentation: 29th June

IPHES's members of the Jury: **John C. Willman**

Neanderthal subsistence strategies at the Mediterranean Basin: Zooarchaeological and taphonomic study of Abric Romani, Abri du Maras and Bize-Tournal

PhD student: **Juan Marín Hernando**

University: MNHN/UNIFE

Date of presentation: 29th July

IPHES's members of the Jury: **Palmira Saladié** and **Antonio Rodríguez-Hidalgo**

Gestión de materiales silíceos macrocristalinos en el Pleistoceno de Europa occidental. Evolución de las estrategias de adaptación a los condicionantes litológicos

Ph. D. Student: Arturo de Lombera Hermida

University: Universidad de Santiago de Compostela

Date of presentation: 10th September

IPHES's members of the Jury: **Eudald Carbonell**

Analysis of biomarkers for the biogenic characterization and farming practices identification of prehistoric organic sediments from rock-shelters and caves used as livestock-pens

Ph. D. Student: Jaime Gea

University: Universidad del País Vasco

Date of presentation: 15th September

IPHES's members of the Jury: **Josep Maria Vergès**



Maite Arilla during her Ph.D. defense, with the members of the Jury

Carnívoros en la etapa: Neo-tafonomía de carnívoros salvajes en los Pirineos (Cataluña, Península Ibérica) y su implementación sobre la ecología y comportamiento de los homínidos antiguos

Ph. D. Student: **Maite Arilla**

University: Universitat Rovira i Virgili

Date of presentation: 18th September

IPHES's members of the Jury: **Eudald Carbonell**

Procesos de reducción en la industria lítica: cambio diacrónico y patrones de ocupación en el Paleolítico Medio de la Península Ibérica

Ph. D. Student: Guillermo Bustos

University: Universidad Autónoma de Madrid

Date of presentation: 22nd September

IPHES's members of the Jury: **Gema Chacón**

Atapuerca como matriz disciplinar. Aproximación a un proceso sistémico de dinamización de un patrimonio cultural. 1991-2020

Ph. D. Student: Alejandro Saramiento

University: Universitat Rovira i Virgili

Date of presentation: 29th September

IPHES's members of the Jury: **Robert Sala**

Semiótica del Museo: el caso del Museo de la Evolución Humana

Ph. D. Student: Raquel Nogal

University: Universidad de Burgos

Date of presentation: 2nd October

IPHES's members of the Jury: **Eudald Carbonell**

Out of Africa: Dietary transitions of migrating megaherbivores during the Miocene

Student: Alexandros Xafis

University: Universität Wien (Austria)

Date of presentation: 5th November

IPHES's members of the Jury: **Florent Rivals**

Los microfósiles no esporopolínicos en la cuenca Vasco-Cantábrica y el Pirineo occidental.

Student: Amaya Echazarreta Gallego

University: Universitat del País Vasco.

Date of presentation: 2nd December

IPHES's members of the Jury: **Francesc Burjachs**

Comportements de subsistance et environnements des Néandertaliens en Languedoc au Pléistocène supérieur. L'apport des grands mammifères de l'archéoséquence des Ramandils (Port-la-Nouvelle, Aude, France)

PhD student: Lucile Rush

University: Univeristat de Perpinyà

Date of presentation: 4th December

IPHES's members of the Jury: **Palmira Saladié**

Orígenes de las investigaciones en la Sierra de Atapuerca, 936-1936. Visitas, Leyendas y Ciencia

Ph. D. Student: Rodrigo Alonso Alcalde

University: Universidad de Burgos

Date of presentation: 15th December

IPHES's members of the Jury: **Eudald Carbonell**

Taphonomic and Spatial study of the archaeological site DS from Bed 1 in Olduvai Gorge (Tanzania)

PhD student: Lucia Cobo Sánchez

University: Universitat de Complutense de Madrid

Date of presentation: 16th December

IPHES's members of the Jury: **Palmira Saladié** and **Antonio Rodríguez-Hidalgo**

Pratiques d'élevage entre l'Empordà et le Languedoc à l'âge du Fer. Archéozoologie, alimentation animale et saisonnalité

Ph. D. Student: Sergio Himénez Manchón

University: Université Paul Valéry, Montpellier (France)

Date of presentation: 16th December

IPHES's members of the Jury: **Isabel Cáceres**

Pratiques alimentaires et agropastorales à la fin de l'âge du Bronze et aux débuts de l'âge du Fer en Lan-guedoc : du littoral aux premiers contreforts méridionaux du Massif Central

Student: Carole Lespes

University: Université Paul Valéry, Montpellier (France)

Date of presentation: 17th December

IPHES's members of the Jury: **Florent Rivals**

University teaching

University: Universitat Rovira i Virgili (URV)

Master course: *Erasmus Mundus* en Arqueologia del Quaternari i Evolució Humana

Subject: Introduction to Prehistoric Sciences (IMQP-Virtual course)

Professors: **Robert Sala, Carlos Lorenzo, Florent Rivals**

Credits: 8

Subject: Epistemologia i teoria del coneixement en Arqueologia

Professor: **Robert Sala, Jordi Agustí, I. Pastó, C. Tornero**

Credits: 4

Subject: Mètodes d'Excavació en Quaternari

Professor: **Marina Mosquera**

Credits: 6

Subject: Geologia del Quaternari

Professor: **Josep Vallverdú**

Credits: 5

Subject: Paleoeccologia Humana

Professor: **Florent Rivals**

Credits: 4

Subject: Evolució Humana

Professor: **Carlos Lorenzo**

Credits: 5

Subject: Anàlisi Microscòpica en Arqueologia

Professor: **Andreu Ollé, Josep Maria Vergès** and Fina Gavalda

Credits: 4

Subject: Arqueologia Espacial

Professor: **Antoni Canals**

Credits: 5

Subject: Arqueologia Experimental

Professor: **Josep Maria Vergès**

Credits: 4

Subject: Conservació i Restauració

Professor: **Gala Gómez**

Credits: 4

Subject: Informàtica i Estadística aplicades a l'Arqueologia

Professor: **Carlos Lorenzo** and Sergi Lozano

Credits: 5

Subject: Paleontologia de Mamífers: Sistemàtica i Evolució

Professor: **Juan Manuel López-García** and **Bienvenido Martínez-Navarro**

Credits: 4

Subject: Prehistòria d'Àfrica

Professor: **Jordi Rosell**

Credits: 4

Subject: Prehistòria d'Àsia i Oceania

Professor: **Xosé Pedro Rodríguez-Álvarez**

Credits: 4

Subject: Prehistòria d'Europa

Professor: **Antoni Canals**

Credits: 4

Subject: Restitució paleoambiental

Professor: **Francesc Burjachs**

Credits: 4

Subject: Tecnologia Lítica

Professor: **Andreu Ollé**

Credits: 4

Subject: Zooarqueologia i Tafonomia

Professor: **Isabel Cáceres** and **Jordi Rosell**

Credits: 4

Subject: Arqueologia de la Ment

Professor: **Marina Mosquera**

Credits: 3

Subject: Etnoarqueologia
Professor: **Manuel Vaquero**
Credits: 3

Subject: Prehistòria de la Península Ibèrica
Professor: **Manuel Vaquero**
Credits: 3

University: [Universitat de Girona \(UdG\)](#)
Master course: [Primatologia](#)

Subject: Arqueologia de la Ment i Cognició en Evolució Humana
Professor: **Marina Mosquera**
Credits: 5

University: [Universitat Oberta de Catalunya \(UOC\)](#) - [Universitat Rovira i Virgili \(URV\)](#)
Degree course: [Antropologia i Evolució Humana](#)

Subject: Evolució i Cultura
Professor: **Gema Chacón**
Credits: 12

Subject: Antropologia Biològica
Professor: **Carles Lorenzo**
Credits: 6

Subject: Antropologia i Evolució Humana
Professor: **Bruno Gómez de Soler**
Credits: 6

Subject: Arqueologia del Quaternari
Professor: **Palmira Saladié**
Credits: 6

Subject: Cultura Material
Professor: **Deborah Barsky**
Credits: 6

Subject: Epistemologia de l'Evolució
Professor: **Policarp Hortolà**
Credits: 6

Subject: Evolució Humana

Professor: **Marina Lozano**

Credits: 6

Subject: Genètica

Professor: **Policarp Hortolà**

Credits: 6

Subject: Metodologia Arqueològica

Professor: **Deborah Barsky**

Credits: 6

Subject: Noves Tecnologies Aplicades a les Ciències Humanes

Professor: **Ethel Allué**

Credits: 6

Subject: Paleoecologia Humana

Professor: **Rosa Huguet**

Credits: 6

Subject: Pràctiques de Camp i de Laboratori

Professor: **Lucía López-Polín**

Credits: 6

Subject: Prehistòria

Professor: **Ethel Allué**

Credits: 6

Subject: Simbolisme i Cognició

Professor: **Deborah Barsky**

Credits: 6

Subject: Antropologia Forense

Professor: **Marina Lozano**

Credits: 5.25

University: [Universitat Rovira i Virgili \(URV\)](#)

Degree course: [Història & Història de l'Art i Arqueologia](#)

Subject: Prehistòria i Evolució Humana

Professor: **Ethel Allué, Robert Sala, Eudald Carbonell**

Credits: 6

University: Universitat Rovira i Virgili (URV)

Degree course: Història

Subject: Prehistòria de la Península Ibérica

Professor: **Isabel Cáceres**

Credits: 6

University: Universidad Complutense de Madrid

Degree course: Arqueología

Subject: Introducción a la Arqueología

Professor: **Antonio Rodríguez-Hidalgo**

Credits: 8

University: Universidad Complutense de Madrid

Degree course: Historia

Subject: Prehistoria I

Professor: **Antonio Rodríguez-Hidalgo**

Credits: 8



Al pie de la foto: el profesor de Biología, Miguel Ángel López.

Al pie de la foto: el profesor de Biología, Miguel Ángel López.

El proyecto de socialización "IPHES a las escuelas"

La iniciativa ha contado durante 2019 y 2020 con una ayuda de la Fundación Española para la Ciencia y la Tecnología (Fecyt), que ha permitido ampliar los campos de acción y mejorar los contenidos

El proyecto de socialización "IPHES a las escuelas", un programa de actividades que pretende acercar a los estudiantes de secundaria y bachillerato los contenidos de la biología y la ecología, se ha desarrollado durante 2019 y 2020 con una ayuda de la Fundación Española para la Ciencia y la Tecnología (Fecyt). La iniciativa ha contado durante 2019 y 2020 con una ayuda de la Fundación Española para la Ciencia y la Tecnología (Fecyt), que ha permitido ampliar los campos de acción y mejorar los contenidos



Outreach



Talks & conferences

Catalonia

Simposio Sociedad Española de Lingüística. Mesa redonda

Author: Eudald Carbonell

Organizer: Dept. F. Romàniques Universitat Rovira i Virgili

City: Tarragona

Date: 21st January

CSI Prehistórico: Arqueología Forense

Author: Miguel Ángel Moreno Ibáñez

Organizer: Associació Divulga TGN

City: Tarragona

Date: 21st January

Neanderlife i projecte arqueològic a Sant Martí de Tous (La Guinardera i Prospeccions al municipi)

Author: Bruno Gómez de Soler

Organizer: IPHES- Amics de Tous – Ajuntament de Sant Martí de Tous

City: Sant Martí de Tous

Date: 10th February

Reapertura treballs jaciment

Author: Eudald Carbonell i Carlos Tornero

Organizer: Ajuntament de Queralbs

City: Queralbs

Date: 15th February

Deciphering the past: approach to reconstruct the Middle Paleolithic technological behaviours from a spatio-temporal perspective

Author: Gema Chacón

Organizer: Groupe PALAEO TALKS. Session: Muddle in Middle. Story of Middle Palaeolithic

City: Online

Date: 24th June

Nociones sobre Evolución Humana

Author: Juan Manuel López-García

Organizer: Associació Cultural Alfinete

City: Bonastre

Date: 16th June

Del árbol al suelo: Lucy y el origen del bipedismo. Live Talks with Jordi Serrallonga

Author: Marina Lozano

Organizer: Cosmocaixa

City: Online

Date: 22nd June

IPHES outreach activities in pandemic

Author: Miquel Guardiola

Organizer: ACER

City: Barcelona

Date: 7th October

Dones i caça major a la prehistòria

Author: Marina Lozano

Organizer: L'aixeta, píndoles d'antropologia

City: Online

Date: 10th November

Mite i realitat de les glaciacions quaternàries a Catalunya. Les glaciacions van arribar a Barcelona?

Author: Francesc Burjachs

Organizer: Museu d'Història de Barcelona (MUHBA)

City: Barcelona

Date: 28th November

Vegetació i clima durant la primera meitat de l'Holocè. El marc ambiental de les primeres societats agrícoles de Catalunya

Author: Jordi Revelles

Organizer: Museu d'Història de Barcelona (MUHBA)

City: Barcelona (Spain)

Date: 28th November

El santuari paleolític de la Cova de la Font Major (l'Espluga de Francolí, Conca de Barberà)

Author: Josep Maria Vergès and Ramón Viñas

Organizer: Tribuna d'Arqueologia. Departament de Cultura

City: Barcelona

Date: 2nd December

National

Pequeños testigos del impacto humano sobre el paisaje

Author: Sandra Bañuls-Cardona

Organizer: Encuentro de Jóvenes Investigadores en Paleontología

City: Andorra (Teruel)

Date: 27th May

Una ventana a la subsistencia de Homo antecesor: el estudio tafonomico del nivel TD6 de la Gran Dolina

Author: Palmira Saladié

Organizer: Junta de Castilla y León

City: Burgos

Date: 6th July



Conference of Palmira Saladié

El desván de la Historia: 1º de ESO viaja al pasado con un arqueólogo

Author: Francisco García Vadillo

Organizer: Instituto Eugenio Frutos

City: Guareña (Badajoz)

Date: 21st and 28th October, 4th and 6th November

International

The Barracno Leon site (Orce, Spain) and the European Oldowan

Author: Steffania Titton, Deborah Barksy and Amèlia Bargalló

Organizer: The Institute of Archaeology. Hebrew University of Jerusalem (CAL-HUJI, Israel)

City: Jerusalem (Israel)

Date: 28th January

WORKSHOP: MarieCurie@UC Individual Fellowships | First Event

Author: John C. Willman

Organizer: Institute for Interdisciplinary Research of the University of Coimbra

City: Coimbra (Portugal)

Date: 27th July

The Baza-Orce-Huéscar Basin: one of the best Plio-Pleistocene continental records in the World

Author: Bienvenido Martínez-Navarro

Organizer: University of Florence, Department of Earth Sciences

City: Florence (Italy)

Date: 1st December

Outreach publications

Burjachs, F., Nadal, J., Revelles, J., Garcia, Ll. 2020. L'alimentació al Paleolític. In: Garcia, Ll. and Massanés, A. (eds.): *Les arrels premedievales de la cuina catalana*. Associació Catalana de Bioarqueologia i Fundació Alcía: 6-15.

Carbonell, E., Agustí, J. 2020. *Materia Viviente, Vida Pensante: Evolución y Prospectiva de la Conciencia Humana*. Lectio: 224 p.

Carbonell, E., Díez, C. 2020. *Hazte humano: tengas la edad que tengas*. Diario de Atapuerca, Burgos.

Fernández-Marchena, J.L., **Asryan, L.**, Pedergrana, A., **Ollé, A.** 2020. Volumen especial de "Quaternary International" sobre estudios funcionales, *Periódico de Atapuerca*, 109: 9.

López-Polín, L., 2020. Investigación en restauración: productos consolidantes para el sílex y limpieza de restos óseos. *Periódico de Atapuerca*, 103: 11-12.

Martínez-Navarro, B. 2020. *El Sapiens asesino y El Ocaso De los Neandertales*. Almuzara: 240 p.

Ollé, A. 2020. Volumen sobre estudios funcionales en herramientas prehistóricas. *Periódico de Atapuerca*, 106: 12.

Saladié, P. 2020. *La caza. Y nos volvimos omnívoros*. Cuadernos de Atapuerca. Fundación Atapuerca. ISBN: 9788412108224.

Science Education

Programme: **IPHES a les escoles**

Organizer: IPHES & FECYT (FCT-18-13614)

Educational centre: Institut Torreforta

Location: Tarragona

Degree: 1st ESO

Benefited Students: 62

Date: 13th January

Educational centre: Institut Torreforta

Location: Tarragona

Degree: 1st ESO

Benefited Students: 60

Date: 14th January



Miquel Guardiola in a Secondary School of Torreforta (Tarragona), playing a bone flute in a activity inside the IPHES als Barris programme

Educational centre: Escola La Floresta

Location: Tarragona

Degree: 6th primary school

Benefited Students: 10

Date: 15th January



Human evolution at La Floresta Primary school (Tarragona)

Educational centre: Institut Escola Mediterrani

Location: Tarragona

Degree: 6th primary school and 1st ESO secondary school

Date: Women in Science Day, with Andion Arteaga and Andrea Díaz (doctoral students)

Benefited Students: 20

Dates: 11th February



International day of women and girls in science, at Institut-Escola Mediterrani, with Andion Arteaga and Andrea Díaz

Educational centre: Escola El Miracle

Location: Tarragona

Degree: 5th and 6th primary school

Benefited Students: 48

Dates: 13th February

Sub-programme: “Les Escoles a l’IPHES” (Schools to the IPHES)

Organizer: IPHES & FECYT (FCT-18-13614)

Educational centre: Comte de Rius

Location: Tarragona

Degree: FPB and CAM secondary school

Benefited Students: 40

Date: 30th January

Educational centre: Teachers of Institut Campclar

Location: Tarragona

Degree: Teachers

Benefited Students: 52

Dates: 26th February

Educational centre: Escola de Pràctiques

Location: Tarragona

Degree: 5th and 6th primary school

Benefited Students: 54

Dates: 4th March

Educational centre: Escola Sant Rafael

Location: La Selva del Camp

Degree: 5th and 6th primary school

Benefited Students: 35

Dates: 9th March

Sub-programme: “**Extended Learning Time III: contribuyendo a generar vocaciones científicas en centros tutelados**” (FCT-18-13515). Collaborating with MEDIS consolidated research group (Educational Research Methodology with Social Impact), we provided educational activities in CRAES (Residential centre of Educational Action). In this programme this year, we contributed with 7 sessions in the CRAES. Organizer: Universitat Rovira i Virgili (URV) (Dra. Carmen García Yeste) from Pedagogy Department and FECYT. With the collaboration of IPHES.

Educational centre: CRAE Sant Josep (Residential Centre for Educational Action)

Location: Tarragona

Degree: different ages

Benefited students: 8

Date: 14th January

Educational centre: CRAE Codina-Pastoreta (Residential Centre for Educational Action)

Location: Reus

Degree: different ages

Benefited students: 9

Date: 28th January

Educational centre: CRAE Voramar (Residential Centre for Educational Action)

Location: Tarragona

Degree: different ages

Benefited students: 7

Date: 30th January

Educational centre: CRAE Sant Josep (Residential Centre for Educational Action)

Location: Tarragona

Degree: different ages

Benefited students: 9

Date: 4th February

Educational centre: CRAE Voramar (Residential Centre for Educational Action)

Location: Tarragona

Degree: different ages

Benefited students: 9

Date: 6th February

Educational centre: CRAE Codina-Pastoreta (Residential Centre for Educational Action)

Location: Reus

Degree: different ages

Benefited students: 7

Date: 18th February

Educational centre: CRAE Sant Josep (Residential Centre for Educational Action)

Location: Tarragona

Degree: different ages

Benefited students: 11

Date: 25th February

Programme: “Happening of Camp dels Ninots project”

Organizer: Institut de Sils (Girona)

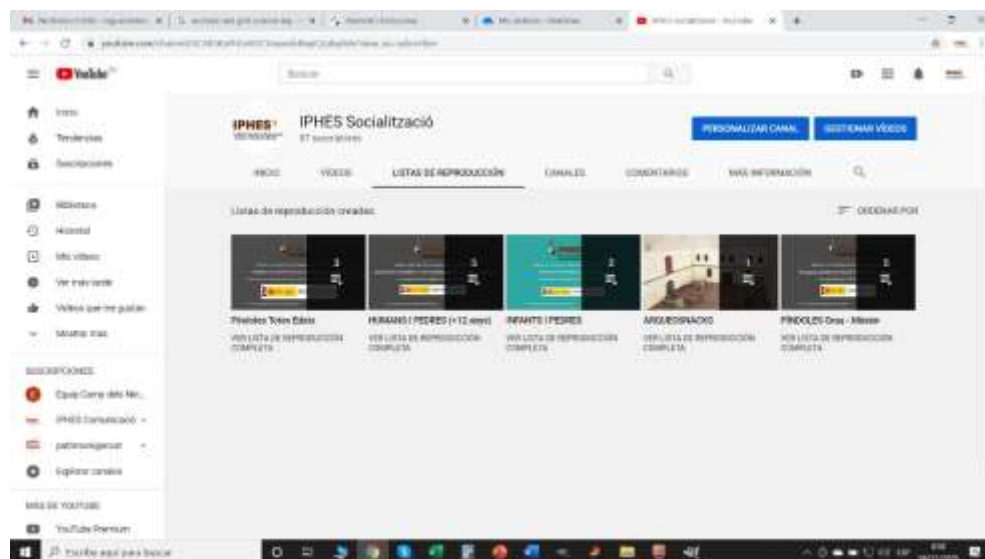
Educational centre: Institut de Sils

Location: Sils (Girona)

Degree: 4th primary schoolDate: 3rd February*About Educational activities during lockdown in 2020*

On March 14, the state of alarm for COVID was declared. This totally stopped any type of non-essential activity, but for the purposes of scientific education and socialization, the stoppage has been absolute until October of this year.

For this reason, since the beginning of the lockdown, we thought about improving the educational function through the internet, opening a YouTube channel, renewing the contents of the web *evolucion.org*, and devising ways to carry out online demonstrations.



IPHES Socialització youtube channel

The videos were produced during the lockdown, in self-recording way. Some of the demonstrations that we developed in the face-to-face acts of the “IPHES a les escoles” programme was converted to video, and we also added some more playful formats such as the “Píndoles” list.

The renewed *evolucion.org* website offers content to teaching teams and students in schools. Prepared classes, information capsules for teachers, videos and other materials are available to teaching professionals and school children.

POST-COVID presential activities

In October we restart face-to-face activities in some centres, following all COVID measures.

Educational centre: Assoc. Athena Altes Capacitats

Location: Tarragona

Degree: different ages

Benefited Students: 14 with his parents

Date: 3rd October

Dra. Marina Lozano

Educational centre: Escola Cèsar August

Location: Tarragona

Degree: 6th primary school

Benefited Students: 20

Date: 22th October

Educational centre: Escola Montsant

Location: Cornudella del Montsant (Tarragona)

Degree: 6th primary school

Benefited Students: 22

Date: 10th November

Educational centre: Comte de Rius

Location: Tarragona

Degree: FPB and CAM Secondary School

Benefited Students: 12

Dates: 11th November

Exhibitions

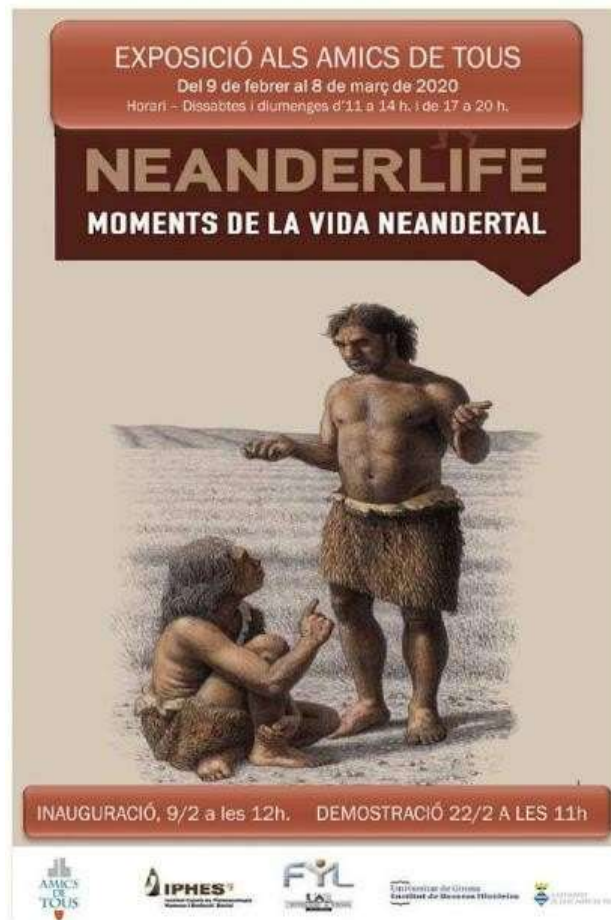
Neanderlife. Moments de la Vida Neandertal

Organizer: IPHES

Location: **Sant Martí de Tous**

Dates: February -March 2020

Visitants: 120



Neanderlife Exhibition poster

Participatory activities

Visita didàctica de l'Escola la Cérvola Blanca a l'exposició Neanderlife. Moments de la vida Neandertal

Type: Didactical exhibition visit

Organizer: IPHES- Associació d'Amics de Sant Martí de Tous

Location: Sant Martí de Tous

Benefited public: 40

Date: 19th February

Demostració de talla lítica sobre l'evolució de l'explotació del sílex de Sant Martí de Tous

Type: Didactical demonstration

Organizer: IPHES- Associació d'Amics de Sant Martí de Tous

Location: Sant Martí de Tous

Benefited public: 107

Date: 22th February

Les dents, testimoni de la nostra evolució

Author: Beatriz Gamarra and Marina Lozano

Organizer: Catalan European Researchers Night- URV/IPHES/ICAC/ICIQ/IISPV

City: Tarragona-online version <http://tarragona.nitdelarecerca.cat/ca/programacio/a/15/les-dents-testimoni-de-la-nostra-evolucio>

Date: 27th November



Marina Lozano and Beatriz Gamarra presenting at TV their activity at the European Researchers Night

Humans i pedres

Author: Miquel Guardiola

Organizer: Catalan European Researchers Night- URV/IPHES/ICAC/ICIQ/IISPV

Location: INS Roseta Mauri (Reus)- Online session

Benefited public: 75 scholars

Date: 19th November

Didactic materials and contents

www.evolucionaria.org

Type: Renewing of the web contents

Funder: IPHES-Diputació de Tarragona-FECYT

Grafisme i cronologia

Type: Didactic panel

Funder: Ajuntament de l'Espluga de Francolí

Quina rellevància té?

Type: Didactic panel

Funder: Ajuntament de l'Espluga de Francolí

Per què no es pot visitar la galeria dels gravats?

Type: Didactic panel

Funder: Ajuntament de l'Espluga de Francolí

Descobertes

Type: Audiovisual

Funder: Ajuntament de l'Espluga de Francolí

Scientific communication

Objectives 2020

- ❖ **Prioritize more and better what is published and how.**
- ❖ **Research projects:** strengthen a custom programme, replant some strategy, contents and mass media channels according to their objectives.
- ❖ **Promote the internationalization about IPHES:** arrive at more foreign public and mass media
- ❖ **Search some allied to improve our operational qualification.**
- ❖ **More news with and engagement storytelling**
- ❖ **Improve our expertise: 30 years of team communication.**

Results 2020

- ❖ **The work for projects was strengthened:** customized communication plans and prioritize the news.
- ❖ **We tried to optimize and rationalization effort and efficiency** about the different actions and the potential public
- ❖ **Internationalization:**
 - More news in English
 - 43.000 cumulative visits at English blog. This year: 7.500, last year 2.400
 - Origen, in this order: EEUU, Spain, United Kingdom, Canada, Italy, France, Germany, Netherlands, Israel, Chile, Greece, Brasil, Finland, Argentina, Poland, Norway, Chine, Japan, India, Turkey, Australy, Vietnam, New Zelanda, Canada, Singapur, Dinamarca, Romania, Filipinas, Xile, Kenya, Filandia, France, Serbia, Mexico, Sweden, Hungary, Colombia, Russia, Ireland, Austria, Uruguay, Pakistan, Nepal, Moldavia, Tanzania, Hong Kong, Georgia, Qatar, Costa Rica, Malta, Kuwait, Angola, Luxemburg, Armènia...
- ❖ **We export expertise to other research centers (ICIQ, ICAC ...)**

Social Networks

- ❖ A lot of mentions and interactions in **Twitter:** 4.800 followers (4.300 – 2019) - 500 +
- ❖ New: **Instagram** 1.200 followers (700 – 2019) 500 +
- ❖ **YouTube:** 75,624 vistas (45.814 visitors – 2019) 30.000 + and 324 subscripts
- ❖ **Facebook:** 2.328 (2.119 -2019) + 200

Mass Media

Television

TV3 - Televisió de Catalunya, Canal 33, 324, TVE, , TAC 12, Canal Reus TV, la Xarxa, Cuarto Milenio.

Radio

Catalunya Ràdio, Catalunya Informació, RAC 1, la Xarxa, Cadena COPE, Tarragona Ràdio, Cadena Ser, Onda Cero, Radio Nacional de España, Ser, Ràdio Ciutat de Tarragona.

News in national and international newspapers

El Mundo, Huffington Post, Vilaweb, La República, Ara, Punt Avui, la Vanguardia, Regió 7, Nació digital, Diari de Girona, el Periodico, Més Tarragona, Ara, Diari de Tarragona, La Verdad, El Economista, El País, La Razón, Estrella Digital, Levante, La Voz de Galicia, ABC, Las Provincias, El Confidencial, Diario de Ibiza, El Progreso, Levante, Faro de Vigo, Hoy Digital, Catalunya Digital, La Rioja, Crónica global, El Norte de Castilla, Diario de Burgos, La Opinión de Murcia, etc.



New about IPHES work at La Voz de Galicia

Herald Tribune, BBCnews, The Times, Breaking news, Aurora Israel, Daily Herald, Diario Libre, NewsBeeze, Notimérica.com, Clarin.com, Diariodom.com, Panama on, NBCNews.com, Science Magazine, National Geographic Australia, The Japan Times, New Scientist, Discover Magazine, Eurasia Review, SinEmbargo Mexico, El Espectador.

News agency

SINC, EFE, Efe Futuro, ACN, Europa PRESS, Alpha Galileo.

Revues

Sapiens, National Geographic, El Temps, 20 minutos.

Press releases

92 in English, Catalan and Spanish

News published in the Mass Media

4.000...

News

Monthly newsletter...

Strategic Alliances and Collaborations with the Media

- ❖ Report about IPHES on different television channels (TV3, Punt Avui Televisió, TAC 12)
- ❖ Programme "Evoluciona", Tarragona Ràdio, every 15 days
- ❖ RNE – Interviews with researchers for projects they do. Once a month, more or less.
- ❖ The experts' opinion. In different mass media, an IPHES researcher complement the human evolution's current news with a small text o with an interview.
- ❖ ACN - Repors

Oral communication channels

Blogs

News in Spanish <http://iphesnoticias.blogspot.com.es/>

Almost 243.489 accumulated views from countries such as United States, Spain, France, Germany, Brasil, United Kingdom, Mexico, Argentina, Irlanda, Canadá, Chile

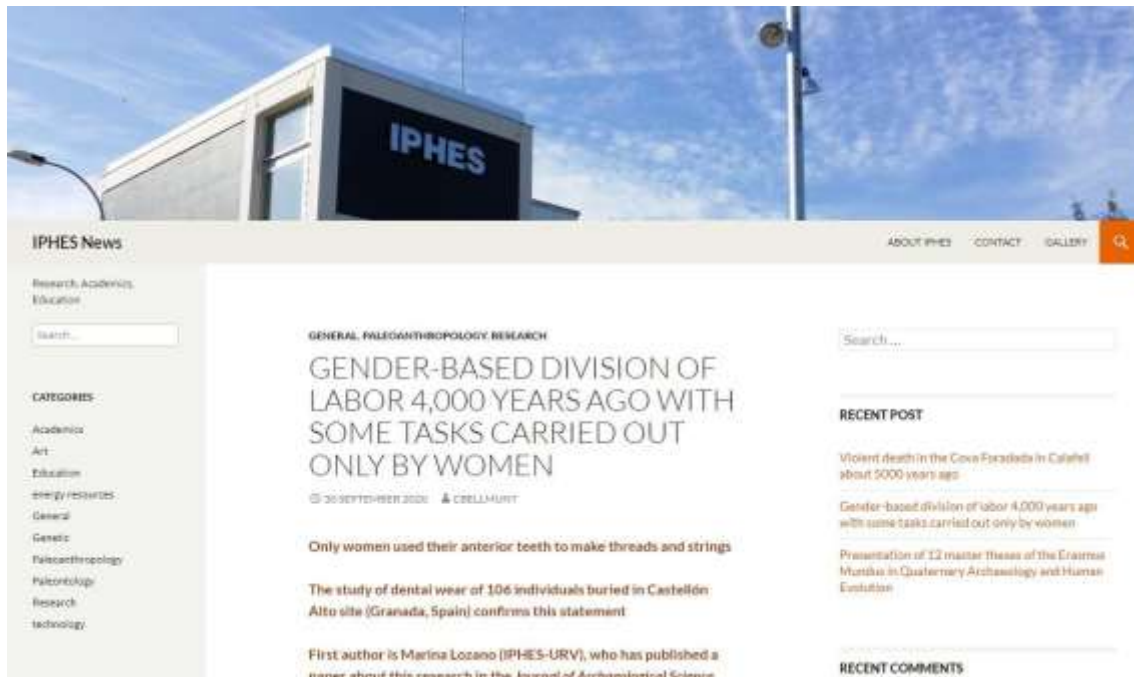
News in Catalan <http://iphes-noticies.blogspot.com.es/>

551.623 accumulated views from countries such as United States, Spain, Russia, Italy, Sweden, Portugal France, Germany, Brasil, Ireland, China, Poland

News in English <https://iphesnews.wordpress.com/>

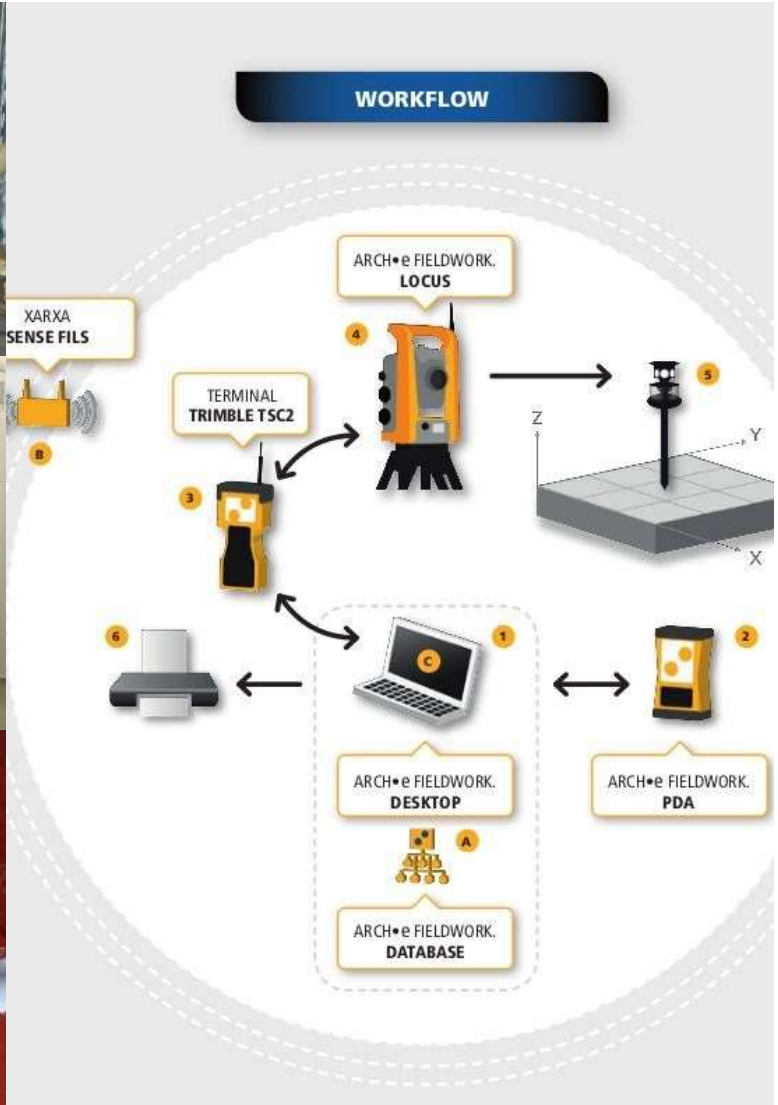
35.968 accumulated views from countries such as United States, Germany, France, United Kingdom, Italy, Israel, Canada, Netherland, India, Brazil and Portugal

1.942 visitants 2019 – 6.039 visitants 2020: + 4000

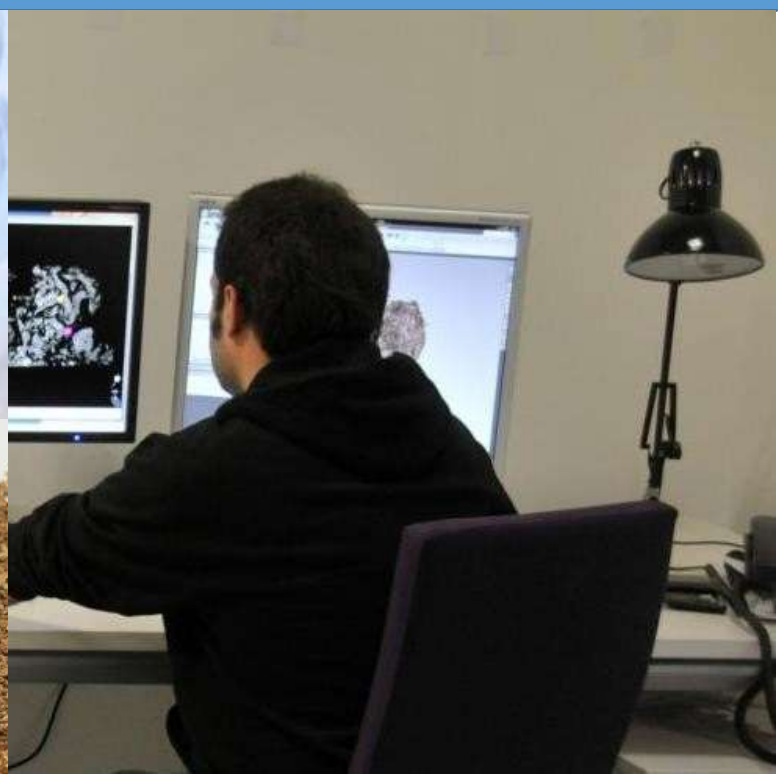


View of the Blog: <https://iphesnews.wordpress.com/>

Total: Almost 900.500 accumulated views



Knowledge transfer & services



Memorandums of understanding and specific agreements

Collaboration agreement between Fundació Palarq and IPHES

Main agreement: Funding support to the project “Datación por C14 AMS de restos humanos procedentes de excavaciones antiguas, para su inclusión en el programa de análisis genético de las poblaciones de la Edad del Hierro de la Península Ibérica”

Date: 10th January

Collaboration agreement between Fundació Palarq and IPHES

Main agreement: Funding support to the project “Evolución del poblamiento humano durante el cuaternario en Marruecos Oriental: Aïn Beni Mathar-Guefaït (Provincia de Jerada, Marruecos)”

Date: 10th January

Learning traineeship specific agreement between Universitat de Barcelona and IPHES

Main agreement: Curricular practical training at IPHES. 1 student.

Date: 13th January

Memorandum of understanding between University of Bergen-Sapience and IPHES

Main agreement: The strengthening of research and dissemination actions and the reciprocal reception of researchers

Date: 28th January

Collaboration agreement between Associació Amics de Sant Martí de Tous and IPHES

Main agreement: To exhibit “Neanderlife. Moments de la vida neandertal” exhibition.

Date: 28th January

Memorandum of understanding between Università di Bologna and IPHES.

Main agreement: The strengthening of research and dissemination actions and the reciprocal reception of researchers

Date: 05th February

Specific agreement between Università di Bologna and IPHES.

Main agreement: Zoom Analyses of osteological remains

Date: 05th February

Collaboration agreement between Université Paul-Valéry Montpellier 3 and IPHES

Main agreement: Co-direction of a doctoral thesis

Date: 19th February

Learning traineeship specific agreement between Universitat Rovira i Virgili and IPHES

Main agreement: Curricular practical training at IPHES. 1 student.

Date: 24th February

Memorandum of understanding between Institute of geology of the Academy of Sciences and IPHES

Main agreement: To facilitate mutually beneficial academic and research cooperation

Date: 28th April

Learning traineeship specific agreement between Universitat Rovira i Virgili and IPHES

Main agreement: Curricular practical training at IPHES. 1 student

Date: 29th April

Specific collaboration agreement between Ajuntament de la Canonja and IPHES Main agreement: Financial contribution to the fieldwork at Barranc de la Boella site

Date: 25th May

Specific agreement between Diputació de Tarragona and IPHES

Main agreement: Financial contribution to the fieldwork at Barranc de la Boella site

Date: 15th June

Specific collaboration agreement between Ajuntament de Capellades and IPHES

Main agreement: Financial contribution to Abric Romaní site archaeological campaign 2020

Date: 15th June

Specific agreement between Ajuntament de Caldes de Malavella and IPHES

Main agreement: Financial contribution to the fieldwork at Camp dels Ninots archaeo-palaeontological site

Date: 15th June

Agreement between Ministerio de Educación, Cultura y Deporte and IPHES

Main agreement: To manage the projects

Date: 19th June

Agreement between Editorial Santillana and IPHES

Main agreement: To the assignment of images of The Font Major site

Date: 19th June

Memorandum of understanding between Université Mohammed Premier d'Oujda and IPHES

Main agreement: To facilitate mutually beneficial academic and research cooperation

Date: 08th July

Doctoral student sponsorship agreement between University of Calgary and IPHES

Main agreement: Doctoral training at IPHES. 1 student

Date: 29th July

Memorandum of understanding between University of Patras and IPHES

Main agreement: To facilitate mutually beneficial academic and research cooperation

Date: 29th July

Learning traineeship specific agreement between Institut Martí Franquès and IPHES

Main agreement: Curricular practical training at IPHES. 1 student

Date: 2nd September

Learning external traineeship specific agreement between Universitat de Girona and IPHES

Main agreement: Curricular practical training at IPHES. 1 student

Date: 1st October

Memorandum of understanding between The Hebrew University of Jerusalem and IPHES

Main agreement: To facilitate mutually beneficial academic and research cooperation

Date: 6th October

Specific agreement between Ajuntament de Montblanc and IPHES

Main agreement: Scientific assessment for the museographic renewal of Molí del Salt contents at Museu Comarcal de la Conca de Barberà

Date: 9th October

Memorandum of understanding between Ajuntament de Vimbodí i Poblet and IPHES

Main agreement: To facilitate mutually beneficial research cooperation at Molí del Salt archaeological site

Date: 17th October

Annex to the specific agreement between Ajuntament de Capellades and IPHES

Main agreement: Financial contribution to Abric Romaní site archaeological campaign 2020

Date: 20th October

Memorandum of understanding between CERCA and IPHES

Main agreement: "Avaluació dels centres Cerca" Program

Date: 29th October

Collaboration agreement between Universitat Autònoma de Barcelona and IPHES

Main agreement: Preservation of human remains of Cova Gran de Santa Linya

Date: 11th November

Collaboration agreement between Universitat Autònoma de Barcelona and IPHES

Main agreement: Preservation of human remains of Cova Gran de Santa Linya

Date: 11th November

Renewal of the memorandum of understanding between Universitat Rovira i Virgili and IPHES

Main agreement: Collaboration for learning traineeship

Date: 13th November

Memorandum of understanding between Consell Comarcal de la Conca de Barberà and IPHES

Main agreement: To facilitate research at Molí del Salt archaeological site

Date: 19th November

Specific agreement between Ajuntament Vimbodí i Poblet and IPHES

Main agreement: Financial contribution to Molí del Salt site archaeological campaign 2020

Date: 19th November

Specific agreement between Università di Bologna and IPHES.

Main agreement: Zoom Analyses of osteological remains (2ond).

Date: 19th November

Memorandum of understanding between Comissió Central de Subministraments and IPHES

Main agreement: Participation in the Sistema Central d'Adquisicions de Béns i Serveis de la Generalitat de Catalunya

Date: 23rd November

Authorization for the indefinite transfer of Lynx skeletons to IPHES

Main agreement: To research and teaching purposes

Date: 23rd November

Traineeship Collaboration agreement between Universitat de Girona and IPHES

Main agreement: Learning external and practical traineeship at IPHES

Date: 4th December

Memorandum of understanding between AGAUR and IPHES

Main agreement: To the processing of personal data in the framework of AGAUR calls

Date: 9th December

Specific collaboration agreement between Ajuntament de la Canonja and IPHES

Main agreement: Financial contribution to the cofinancial of the Operació Mamut (RIS3Cat)

Date: 27th December

Specific agreement between Ajuntament l'Espluga de Francolí and IPHES

Main agreement: Financial contribution to the fieldwork at Cova de la Font Major site

Date: 28th December

Scientific assessment

“Projecte Museogràfic Executiu de l’espai d’Interpretació del jaciment del Barranc de la Boella (La Canonja)”

Category: Enhancement of cultural heritage

Partner: Diputació de Tarragona & Ajuntament de la Canonja

Participation: Coodination

“Declaració de Bé Cultural d’Interès Nacional del Jaciment de l’Abric Romaní (Capellades)”

Category: Enhancement of cultural heritage

Partner: Departament de Cultura & Ajuntament de Capellades

Participation: Coodination

“Pla director del jaciment arqueològic del Barranc de la Boella (La Canonja)”

Category: Enhancement of cultural heritage assesment

Partner: Ajuntament de la Canonja

Participation: Coordination

“Declaració de Bé Cultural d’Interès Nacional del Jaciment de la Cova de la Font Major (L’Espluga de Francolí)”

Category: Enhancement of cultural heritage

Partner: Departament de Cultura & Ajuntament de l’Espluga de Francolí

Participation: Coodination

“Rambla Science project. PO FEDER Catalunya 2014-2020”

Category: Enhancement of cultural heritage

Partner: Ajuntament de Tarragona, ICIQ, URV, IISPV & ICAC

Participation: Collaboration

“Taula de recerca científica i didàctica de les Ciències de la terra per la constitució del Geoparc Conca de Tremp-Montsec, Pallars Jussà (Lleida)”

Category: Scientific contents

Partner: Geoparc Conca de Tremp-Montsec

Participation: Consultant

“Projecte bàsic i d’execució d’itineraris interpretatius d’indrets singulars històrics i arqueològics dels termes de la Febró i Prades”

Category: Enhancement of cultural heritage

Partner: Ajuntament de la Febró & Ajuntament de Prades Participation: Coordination

“Periódico de Atapuerca”

Category: Scientific contents

Partner: Fundación Atapuerca

Participation: Coordination and co-edition

“Elaboració de la diagnosi dels principals equipaments patrimonials del territori”. Pla de Museus de Catalunya

Category: Enhancement of cultural heritage

Partner: Departament de Cultura. Generalitat de Catalunya

Participation: Collaboration

“La gestió col·laborativa dels recursos patrimonials de la Selva com a base per al seu desenvolupament econòmic i social (programa de projectes innovadors i experimentals)”

Category: Enhancement of cultural heritage assessment

Partner: Consell Comarcal de la Selva & Departament de Cultura. Generalitat de Catalunya

Participation: Collaboration

“20 Años Arqueología Exterior”

Category: Photographic Exhibition

Partner: Instituto del Patrimonio Cultural de España (IPCE) & Ministerio de Cultura y Deporte (Spain)

Participation: Collaboration

“La Arqueología Española en el Exterior”

Category: Interactive Audiovisual

Partner: Museo Arqueológico Nacional (Madrid, Spain)

Participation: Collaboration

“Escaneig làser 3D i fotogrametria dels Abrics de l’Apotecari (Tarragona)”

Category: Archaeological site conservation

Partner: Ajuntament de Tarragona

Participation: Coordination

“Human Evolution cladogram of Cosmocaixa”

Category: Archaeological contents

Partner: Mediapro & Fundació la Caixa

Participation: Consultant

“Projecte Museogràfic Espai Cràter”

Category: Museography

Partner: Indissoluble/ Ajuntament d’Olot

Participation: Consultant

“Renovació de l’espai museogràfic destinat al jaciment del Molí del Salt”

Category: Enhancement of cultural heritage

Partner: Museu Comarcal de la Conca de Barberà-Ajuntament de Montblanc

Participation: Coordinaton

“Scientific advising at atrezzo providing for the National Geographic documentary filming”

Category: cultural heritage assessment

Partner: Minoria Absoluta

Participation: consultant

“Formació sobre les descobertes a la Cova de la Font Major”

Category: Guides training

Partner: Ajuntament de l’Espluga de Francolí

Participation: Coordinaton

Scientific and technical training

Researcher: **Deborah Barsky**

Student: David Gaitero Santos

Scientific training: Final research project of one student from the Universitat Oberta de Catalunya - Universitat Rovira I Virgili (UOC -URV) Grau d'Antropologia i Evolució Humana

Researcher: **Antoni Canals**

Scientific training: Supervision of two students at Secondary School curricular practices. INS Vidal i Barrquer

Researcher: **M. Gema Chacón & Amèlia Bargalló Ferrerons**

Student: Marta de Echeverría Gibert

Scientific training: Practices class of one student from the Universitat Oberta de Catalunya - Universitat Rovira I Virgili (UOC -URV) Grau d'Antropologia i Evolució Humana

Researcher: **M. Gema Chacón & Amèlia Bargalló Ferrerons**

Student: Laura Cabezas

Scientific training: Practices class of one student from the Universitat Oberta de Catalunya - Universitat Rovira I Virgili (UOC -URV) Grau d'Antropologia i Evolució Humana

Researcher: **M. Gema Chacón**

Student: Pierre Guillemot

Scientific training: Scientific training in "Refits and spatial pattern analysis" of one Master 1 student. Supervision of Master 1 Thesis (Muséum National d'Histoire Naturelle, Paris, France).

Technician: **Isabel Expósito**

Researcher: Celine Kerfant

Scientific training: Supervision in the techniques of phytoliths extraction and samples mounting.

Researchers: **Mónica Fernández-García & Juan Manuel López-García**

Student: Dama Qoriy

Scientific training: Supervision in small-mammals analysis and lab techniques. Supervision of the Master Thesis Researcher from the Universitat Rovira I Virgili (URV)

Researcher: **Beatriz Gamarra**

Scientific training: Course "Geometric Morphometrics in R 7th edition". Transmitting Science, Capellades (Barcelona, Spain).

Organizer: Transmitting Science

Technician: **Gala Gómez Merino**

Technician: Irene Cazalla Manceras.

Scientific training: Scientific supervision of the PEJ.

Researcher: **Rosa Huguet**

Student: Mario Marqueta

Scientific training: Supervision of Master Thesis

Researcher: **Rosa Huguet**

Student: Abel Moclán

Scientific training: Scientific training and supervisor of Abel Moclán's PhD (CENIEH, Universidad de Burgos)

Researcher: **Juan Manuel López García**

Researcher: Mónica Fernández-García

Scientific training: Scientific training as a supervisor of one PEJ technician for the microvertebrate laboratory-IPHES (granted)

Researcher: **Marina Lozano**

Student: Lucía Ramírez

Scientific training: Scientific assessment in dental anthropology for her Master Thesis (International Master in Quaternary and Prehistory, URV).

Researcher: **Marina Lozano**

Student: Nassima Smail

Scientific training: Scientific assessment in human anthropology for her Master Thesis (International Master in Quaternary and Prehistory, URV).

Researcher: **Marina Lozano**

Student: Riccardo Zappon

Scientific training: Scientific assessment in dental microwear for his PhD (Quaternary and Prehistory Doctoral Programme, URV).

Technician: **Elena Moreno**

Student: Laia Martín

Scientific training: Scientific training of a student in curricular practices of "Grado en Estudios Superiores de Conservació y Restauració de Béns Culturals" of Escola Superior de Conservació i Restauració de Béns Culturals de Catalunya (Barcelona, España)

Researcher: **Marina Mosquera**

Students: Diego Lombao and Andión Arteaga Scientific training: Scientific training: of 3 PhD granted students

Researcher: **Florent Rivals**

Student: Camille Ascari

Scientific training: Training to microwear analysis for a master thesis at MNHN.

Researcher: **Florent Rivals**

Trainee: Lua Valenzuela

Scientific training: Training to microwear analysis for a project on Holocene archaeological sites from Mallorca.

Researcher: **Josep Maria Vergès Bosch**

Student: Aroa Fuentes

Scientific training: Scientific training on placements (Escola d'Art i Disseny de Tarragona).

Researcher: **Josep Maria Vergès Bosch**

Student: Roger Perrelló

Scientific training: Scientific training on placements (Escola d'Art i Disseny de Tarragona).

Researcher: **Josep Maria Vergès Bosch**

Student: Marc Tomàs

Scientific training: Scientific training on placements (Escola d'Art i Disseny de Tarragona).

Researcher: **Josep Maria Vergès**

Student: Diego Capra

Scientific training: Scientific training and supervisor of Diego Capras' PhD (Università di Napoli-L'Orientale)

Researcher: **John C. Willman**

Researcher: Antonietta Del Bove

Scientific training: Feedback on Wenner Gren Doctoral Thesis

Researcher: **John C. Willman**

Researcher: Mónica Fernández García

Scientific training: Feedback on Tübingen Prize for Ice Age Research

Intellectual property

ARCHEO10 Version 1.0.1. Recording fieldwork archaeological data. Free software with Public Licence (GPL&GNU). Copyright © **A. Canals, M.G. Chacón**, J.I. Morales, T. Pinya. All rights reserved. Ref.: 2007083478441 (saveCreative).

Instrumental and not instrumental services

Service: **Estudi antracològic de fragments de carbó procedents del Puig de Sa Morisca (Mallorca)**

Client: Universitat de les Illes Balears

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria. Humans i pedres. 3 sessions.**

Client: AMPA del CEIP Pintor Sorolla

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria. De caçadors a ramaders. 2 sessions.**

Client: Escola Lluís Revest

Service: **Estudi de mostres arqueobotàniques Camí del Castell.**

Client: A Priori Cultural

Service: **Estudi de mostres arqueobotàniques La Masieta de Queralt**

Client: A Priori Cultural

Service: **Procesamiento de 27 muestras del depósito PNB para el análisis de polen**

Client: Consejo Superior de Investigaciones Científicas

Service: **Realització de làmines primes i informe de les mostres**

Client: Universitat Autònoma de Barcelona-Rafael Mora

Service: **Assessorament científic i redacció dels textos en base als continguts del projecte museogràfic de l'espai AQUAE.**

Client: Ajuntament de Caldes de Malavella

Service: **Treballs previs necessaris per a la redacció dels expedients de declaració bé cultural d'interès nacional en la categoria de zona arqueològica dels jaciments arqueològics dels Abrics de la Cinglera del Capelló (Capellades, Anoia) i Cova de la Font Major (l'Espluga de Francolí).**

Client: Departament de Cultura. Generalitat de Catalunya

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria. Humans i pedres. 1 sessió**

Client: Ajuntament d'Oropesa del Mar

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria. Humans i pedres. 3 sessions**

Client: IES La Garrigosa

Service: **Procesamiento de 10 muestras sedimentarias del depósito AMI**

Client: Euskoiker

Service: **Realització de làmines primes per a l'estudi estratigràfic del jaciment de Piano Cervi i realització d'un informe de fabricació de mostres.**

Client: Club Alpino Italiano

Service: **Estudi de les restes antropològiques de la Cova de la Guineu**

Client: Departament de Cultura. Generalitat de Catalunya

Service: **Anàlisi palinològica 11 mostres de la Plana del Castell**

Client: Ajuntament de Cunit

Service: **Realització de làmines primes per a l'estudi petrogràfic**

Client: Universidad Autònoma de Madrid

Service: **Mostreig i extracció de monòlits de Mas Trades (Cubelles)**

Client: Universitat de Barcelona.

Service: **Servei arqueològic i treballs de documentació mitjançant 3D dels Abrics de l'Apotecari.**

Client: Ajuntament de Tarragona.

Service: **Anàlisi seqüencials d'isòtops de carboni i d'oxigen de 16 dents d'ovelles del jaciment de Mas Castellar (Pontós), per tal d'obtenir informació sobre les pautes alimentàries del ramat oví**

Client: Generalitat de Catalunya. Departament de Cultura. Direcció General de Patrimoni Cultural

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria: "Un viatge de milions d'anys". Biblioteca de Piera (Barcelona)**

Client: Diputació de Barcelona

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria. "Humans i pedres"**

Client: IES Sant Sebastià. Vinaròs

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria. "Humans i pedres"**

Client: IES Gençana. Godella

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria. "De caçadors a ramaders"**

Client: IES Francesc Ribalta. Castelló

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria. "Humans i pedres"**

Client: IES Serra d'Espadà. Onda

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria. "De caçadors a ramaders"**

Client: IES Francesc Tàrrrega. Vila-real

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria. "From hunters to gatherers"**

Client: IES Àgora Lledó. Castelló

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria. "De caçadors a ramaders"**

Client: CEIP Compte d'Aranda. Alcora

Service: **Realització d'activitats didàctiques i tallers pràctics sobre la prehistòria. "De caçadors a ramaders"**

Client: IES Vicent Castell Domènech. Castelló



Xarxa de Municipis IPHES



The basis of the research developed at IPHES is located in the archaeopaleontological sites. Since its inception, this research center has considered the municipalities where these sites are located as true partners, indispensable actors in the valorization of the Archaeological Heritage. In the way IPHES created in 2018 the Network of Municipalities IPHES (*Xarxa de Municipis IPHES*), a fabric committed with the territory.

In 2018, 14 municipalities that collaborate with IPHES have received recognition from the hands of their representatives: Caldes de Malavella, Cambrils, Capellades, el Catllar, l'Espluga de Francolí, la Canonja, la Febró, la Riba, Moià, Montblanc, Mont-Ral, Salou, Vimbodí and Poblet and Tarragona, the latter for the support of IPHES since its inception, and especially to facilitate the construction of the building at Tarragona city. The recognized municipalities are localities which have been involved in the development of research and socialization activities, either by contributing logistically or economically to archaeological fieldwork, involving the creation of spaces for the interpretation and enhancement of archaeological sites, hosting exhibitions, etc., in order to bring about and participate in knowledge of Prehistory and Human Evolution to citizens from their own territory.

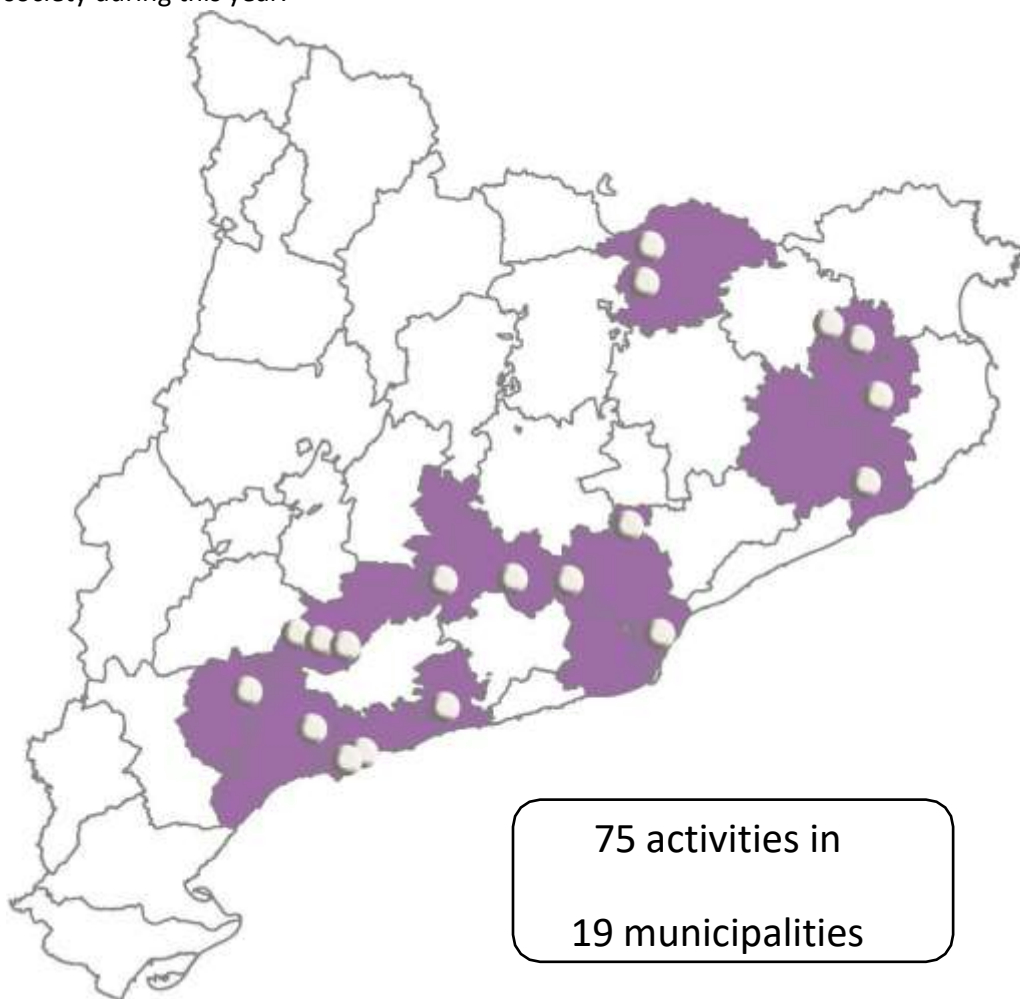
In 2018 there were 64 villages in Catalonia which collaborated with the different activities that were carried out in the territory, some of which, apart from the town councils, are also carried out thanks to the support of the Generalitat of Catalonia, of the Diputació de Tarragona or the Diputació de Barcelona.

In 2019 the number of activities conducted around the territory increased to 158, distributed in 51 municipalities of the *Xarxa de Municipis IPHES*.



The main goal of the Network of Municipalities IPHES is to value the collaboration of the recognized villages with the research, academy and/or socialization activities of IPHES, which allow them to bring science closer to society. To meet this goal, IPHES has been dedicating to developing activities such as conferences, visits to the archaeological fieldworks, exhibitions, visits to schools, workshops in libraries and participation in fairs in several towns. It has been created accounts of the Network of Municipalities IPHES at Instagram and Facebook, with the aim of facilitating the diffusion of the activities of IPHES in the territory.

In 2020, IPHES conducted 75 activities in 19 municipalities around Catalonia. This decrease in the number of activities conducted is consequence of the reduction of the activities during the lockdown and the social distance measurements derived from the COVID-19 global pandemic. However, IPHES has reinforced online sessions in order to adapt and maintain the contact with the society during this year.

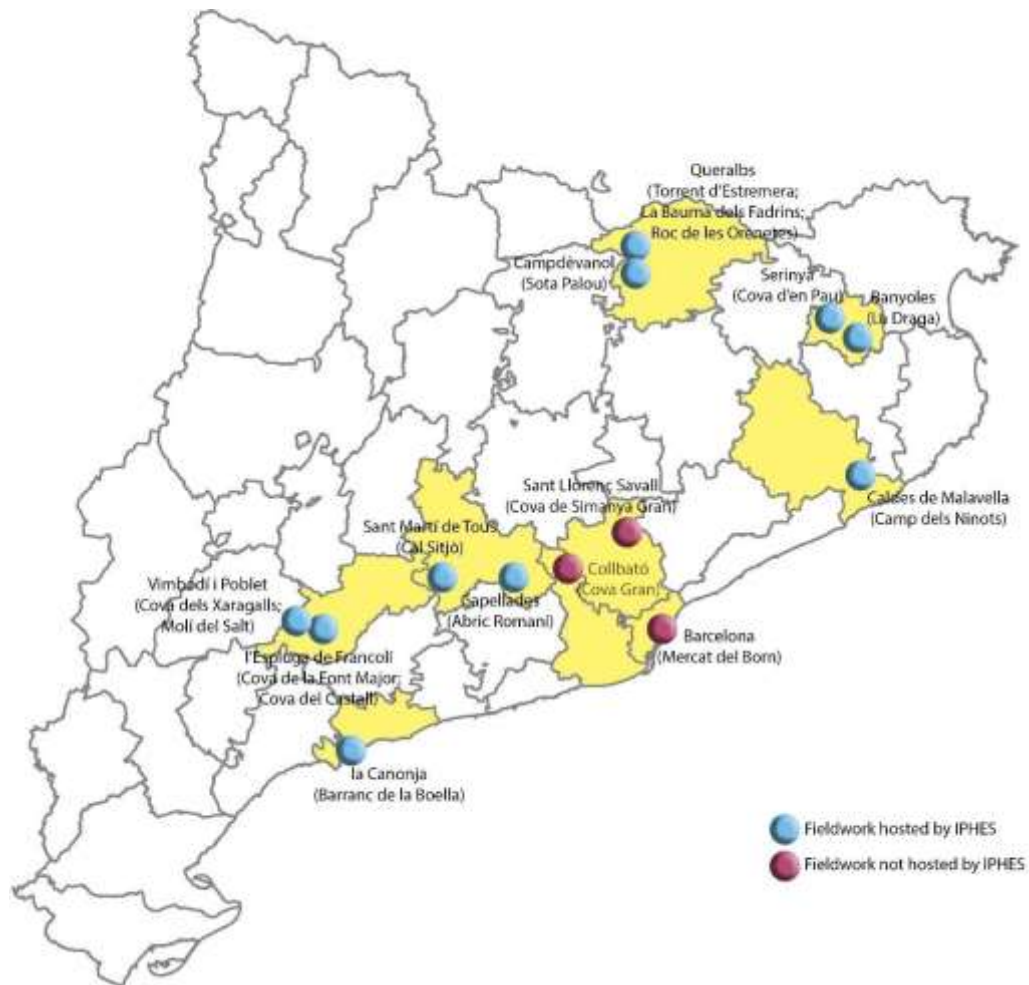


Banyoles	Collbató	Reus
Barcelona	Cornudella del Montsant	Sant Llorenç Savall
Bonastre	L'Espluga de Francolí	Sant Martí de Tous
Caldes de Malavella	Girona	Serinyà
Campdevàno	Montblanc	Tarragona
la Canonja	Queralbs	Vimbodí i Poblet
Capellades		

Activity of Xarxa de Municipis IPHES

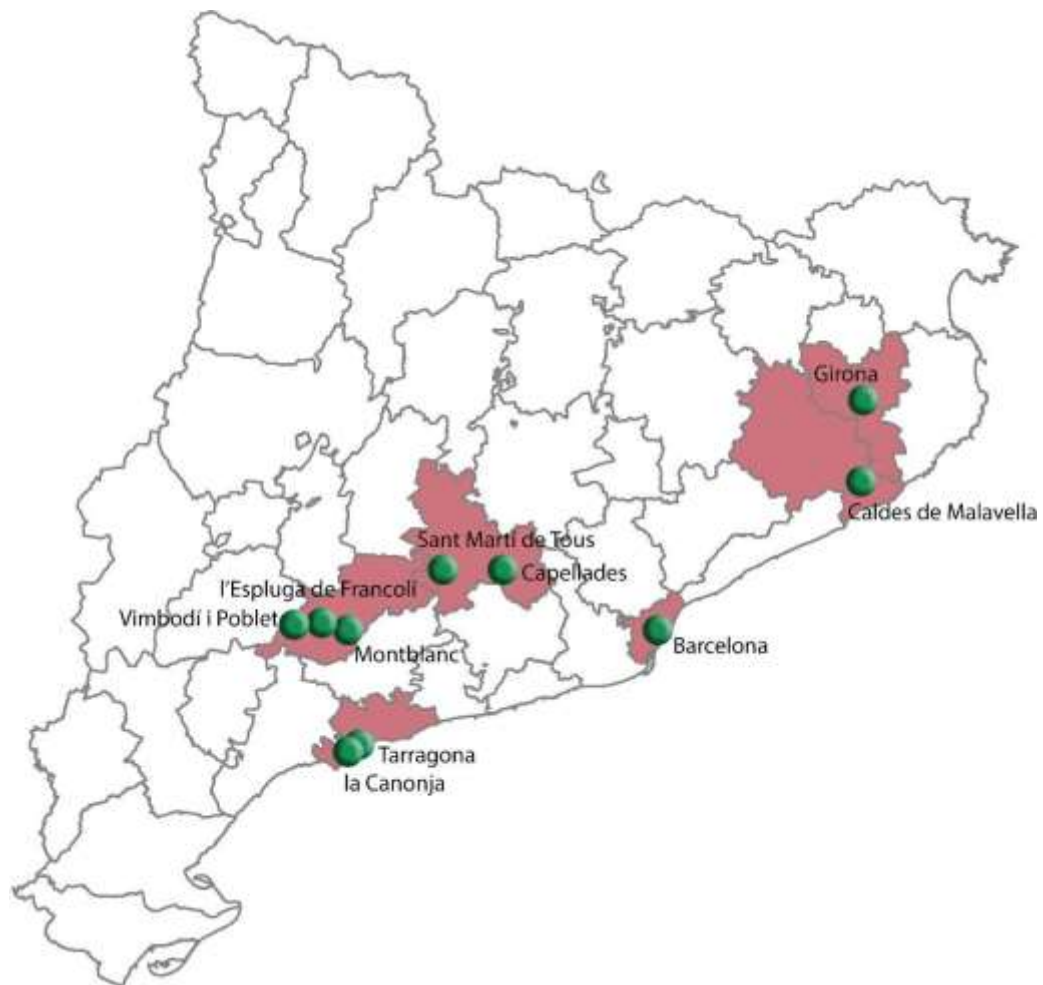
Fieldwork projects

Archaeological excavations represent one of the best examples of IPHES action on the territory that composes the Network of Municipalities IPHES, since fieldworks involve the transfer of part of the team to the different municipalities in which archaeological excavations takes part. In 2020, IPHES has participated in fieldworks in 17 archaeological sites on 14 municipalities, as reflected on the map.



Agreements

IPHES has continued to promote the collaboration with the municipalities through framework agreements. In 2020, IPHES has maintained agreements with 10 municipalities in Catalonia. These are mainly municipalities where IPHES conducts fieldwork projects, such as Caldes de Malavella, Capellades, la Canonja, l'Espluga de Francolí or Montblanc, but also in other such as Barcelona or Girona.



Conferences and talks

As part of the IPHES' action on the territory, 18 conferences were held in 5 municipalities during 2020. These conferences have been held in different towns of Catalonia, in most cases in localities at which IPHES lead fieldworks projects, such as Sant Martí de Tous or Queralbs, but also in other localities such as Barcelona and Bonastre.



Other activities

Other activities that IPHES conducted around the territories are Public Science Events, the “*Neanderlife: moments de vida Neandertal*” exhibition, the *IPHES a les Escoles Programm* and the Fecyt Programm (named Extended Learning Time III), which includes a collaboration with the Pedagogy Department of the Universitat Rovira i Virgili in different Residential Centers of Educational Action (*Centres residencials d'acció educativa - CRAE*) in Tarragona and Reus.

During 2020 IPHES has held public demonstrations at Sant Martí de Tous. There were two “Open day” campaigns: for the schoolchildren of the La Cérvola Blanca School on February 19 and a special act for the global public on February 22. The exhibition “*Neanderlife: moments de vida Neandertal*” was also exhibit in Sant Martí de Tous during February and March.

The *IPHES a les Escoles Programm* (FCT-18-13614) was developed in Tarragona, Reus and Cornudella del Montsant, since there were many cancellations because the pandemic. Finally, the abovementioned activities related with the Fecyt Programm were developed in Tarragona and Reus.



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