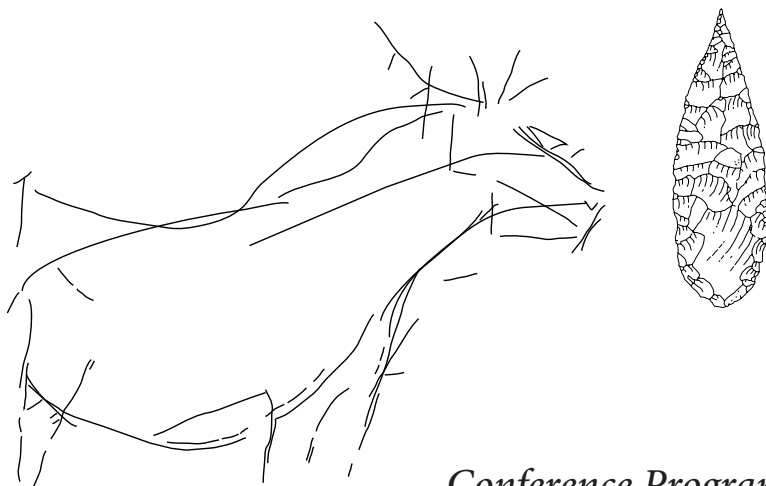




**European Society for the study of  
Human Evolution**

8th Annual Meeting • September 13-15, 2018  
Faro, Portugal



*Conference Program*

## Wednesday, September 12th

15:00	Pre-Registration : Museu Municipal de Faro, Praça Dom Afonso III 14
18:00	Welcome Drink : Museu Municipal de Faro, Praça Dom Afonso III 14
19:30	Keynote : Teatro Lethes, R. de Portugal 58

### Keynote

#### The first three million years of human evolution: The ecology of our African ancestors

Presented by René Bobe, Ph.D.

Human ancestors diverged from other apes in the Late Miocene of Africa, sometime between 6 and 8 million years ago. This was a time of major climatic and environmental changes, not only in Africa but also worldwide. In tropical latitudes, these environmental changes included significant expansion of savanna grasslands, but the earliest hominins remained closely tied to woodland habitats similar to those of their ape ancestors. An important adaptive shift in diet and locomotion occurred with the earliest species of *Australopithecus*, about 4 million years ago, as hominins began to shift their ecological setting toward more open environments. *Australopithecus* first appeared in eastern Africa, and then expanded its geographic range to the west and south, where it came to occupy a wide range of habitats. In this lecture, I provide new data and analyses on the ecology of *Australopithecus* relative to that of earlier hominin species, suggest how *Australopithecus* set the stage for the subsequent evolutionary success of the genus *Homo*, and discuss the potential of studying modern analogues for the environments of early hominins.

### Bus Schedule

We are pleased to offer a shuttle service between Faro Bus Central Station and the ESHE 2018 Meeting. Buses are clearly marked with “ESHE Meeting” signs in the front window.	
Thursday	Shuttles will leave Faro Central Station at 8:00 and leave the conference at 20:00
Friday	Shuttles will leave Faro Central Station at 8:45 and leave the conference at 20:00
Saturday	Shuttles will leave Faro Central Station at 8:45 and leave the conference at 19:00

## Thursday, September 13<sup>th</sup>

8:30-9:30	<b>Meeting Registration</b>
9:15-9:30	<b>Official Meeting Opening</b>
<b>Session 1 • Podium</b>	
9:30	<b>Viviane Slon</b> - Direct evidence for admixture among Pleistocene hominins: The genome of a Neandertal/Denisovan offspring
9:50	<b>Philipp Gunz</b> - Neanderthal introgression sheds light on modern human brain globularity
10:10	<b>Dirk L. Hoffmann</b> - Speleothems associated with archaeological artefacts - how U-Th dating can be used to constrain the age of cave art
10:30	<b>Gerd-Christian Weniger</b> - The archaeological context of early rock art in Cueva Ardales (Spain)
10:50	<b>Tomos Proffitt</b> - Revisiting Panda 100: Reanalysis of the first archaeological chimpanzee nut cracking lithic assemblage and its relevance to understanding the emergence of hominin technology
11:10-11:35	<b>Coffee Break</b>
<b>Session 2 • Pecha Kucha</b>	
11:35-11:55	<b>Martin Hora</b> - Water loss during persistence hunting in recent Kalahari hunters and <i>Homo ergaster</i>
	<b>Lucía Cobo-Sánchez</b> - New evidence for early hominin hunting at Olduvai Gorge (Bed I): Analysis of the bone surface modifications of the DS archaeo-faunal assemblage
	<b>Questions</b>
11:55-12:20	<b>Eve Boyle</b> - Identifying correlates of diet in the primate torso: A case study in iliac flare
	<b>Julia Stuhlträger</b> - Season's Eatings! Establishing reference data for revealing seasonality from tooth wear in chimpanzee molars
	<b>Alastair Key</b> - Predicting stone tool functional performance: a case study in handaxe loading
<b>Questions</b>	
12:20-12:45	<b>Naomi L. Martisius</b> - A non-destructive ZooMS methodology applied to Neandertal bone tools shows raw material selection
	<b>Marion Prévost</b> - Incised aurochs bone shaft dated to 130 kys at the Middle Paleolithic open-air site of Neshet Ramla (Unit III), Israel
	<b>Thomas Terberger</b> - The double pointed wooden stick of the palaeolithic site of Schöningen and its context
<b>Questions</b>	
12:45-14:15	<b>Lunch</b>

**Session 3 • Podium**

14:20	<b>Marianne Brasil</b> - Early <i>Homo sapiens</i> postcranial fossils from Middle Awash, Ethiopia
14:40	<b>Marta Mirazón Lahr</b> - Recent palaeoanthropological investigations in West Turkana, Kenya: implications for the evolution of <i>Homo sapiens</i>
15:00	<b>Pontus Skoglund</b> - Genomic models of early modern human populations in Africa
15:20	<b>Gerhard W. Weber</b> - Early modern humans in the Levant
15:40	<b>Paul Bons</b> - Pitfalls and opportunities in pinpointing the origin of modern humans - a numerical study
16:00-16:30	<b>Coffee Break</b>

**Session 4 • Podium**

16:30	<b>Thibaut Deviese</b> - Redating Palaeolithic human bones using a compound specific approach: Implications for understanding the Middle to Upper Palaeolithic transition in Eurasia
16:50	<b>Rachel Hopkins</b> - Testing the Danube-corridor hypothesis – New results from chronometric modelling
17:10	<b>Helen Fewlass</b> - New high-resolution 14C chronology for Bacho Kiro cave, Bulgaria spanning the Middle to Upper Palaeolithic transition
17:30	<b>Kévin Di Modica</b> - Reconsidering the Late Middle Palaeolithic in North-West Europe: Cultural variability, chronology, and implications for the Middle to Upper Palaeolithic transition
17:50	<b>Armando Falcucci</b> - The chrono-cultural narrative of the Fumanian Aurignacian supports the inapplicability of the Aquitaine Model on a supra-regional scale
18:15	<b>Poster Session 1</b>

**Friday, September 14<sup>th</sup>****Session 5 • Podium**

9:30	<b>Silindokuhle Mavuso</b> - The sedimentology of the Jacovec Cavern, Sterkfontein, South Africa: contextualising fossil deposits with high resolution sedimentological analyses
9:50	<b>Robin Crompton</b> - Ecomorphology of the <i>Australopithecus prometheus</i> skeleton, StW573 -3.67 Ma, from Sterkfontein Caves, South Africa
10:10	<b>Amélie Beaudet</b> - Exploring the inner cranial anatomy of “Little Foot”: a comparative study of the endocast, and of the bony labyrinth.
10:30	<b>Cinzia Fornai</b> - Unexpectedly high morphological variability in the <i>Australopithecus</i> sacrum. Implications for sexual and taxonomic diversity
10:50	<b>Clément Zanolli</b> - What is South African early <i>Homo</i> ? New insights from the molar endostructural signature
11:10-11:35	<b>Coffee Break</b>

## Session 6 • Pecha Kucha

11:35-11:55	<b>Mareike J Brenner</b> - Early MIS 5 lithic technology at Klasies River, South Africa
	<b>Ron Shimelmitz</b> - Back to Skhul Cave, Israel
	<b>Questions</b>
11:55-12:20	<b>Jonathan Reeves</b> - Using time-averaged cave deposits and geospatial statistics to demonstrate spatial structure in Neandertal behavior
	<b>Andrew Sorensen</b> - Simulating fire-affected archaeological lithic assemblages using the computer-based model 'fiReproxies'
	<b>Wei Chu</b> - Hi-tech rocks and rivers: An artifact transport experiment using RFID tags
<b>Questions</b>	
12:20-12:45	<b>Leonardo Carmignani</b> - Exploring the Middle Paleolithic blade and bladelet evolution: new evidence from the Bau de l'Aubesier rock shelter (France)
	<b>Camille Lesage</b> - New data on the Altai Middle Palaeolithic variability: The Levallois perspective
	<b>Niccolò Castellani</b> - Refining detection of adaptive introgression from Denisovan to Tibetan and Sherpa genomes. *Presented by Marco Sazzini
<b>Questions</b>	
12:45-14:15	<b>Workshop: How to Get Published in the JHE</b> - <i>Anfiteatro D</i>
<b>Session 7 • Podium</b>	
14:20	<b>João Zilhão</b> - Neandertal fire
14:40	<b>Andrey Krivoshapkin</b> - Sel'Ungurian: A new variant of the Middle Paleolithic in Central Asia
15:00	<b>Kseniya Kolobova</b> - The Easternmost Neanderthals in Altay Mountains
15:20	<b>Mike Morley</b> - Site Formation at Denisova Cave, Siberia: preliminary micromorphology results
15:40	<b>Tom Higham</b> - Chronology of the Initial Upper Palaeolithic of eastern Eurasia
16:00-16:30	<b>Coffee Break</b>
<b>Session 8 • Podium</b>	
16:30	<b>Enrico Cappellini</b> - Dental enamel proteome sequences from Dmanisi (Georgia) enable molecular phylogeny of fauna remains beyond the limits of ancient DNA preservation
16:50	<b>Frido Welker</b> - Palaeoproteomic analysis of Early Pleistocene Gigantopithecus blacki.
17:10	<b>Markus Bastir</b> - Thoracic vertebral morphology of KNM-WT 15000
17:30	<b>Daniel García-Martínez</b> - Estimation of total lung capacity (TLC) in Neanderthals with physiological implications
17:50	<b>Rita Sorrentino</b> - Evolutionary timing and relationships of the talar facets: Implication for hominin talus.
18:15	<b>Poster Session 2</b>

# Saturday, September 15<sup>th</sup>

## Session 9 • Podium

<b>9:30</b>	<b>Sam Nicholson</b> - A 1.1 million-year palaeoclimate record of Arabia and Human Evolution
<b>9:50</b>	<b>Henry Lamb</b> - Regional differentiation in Late Pleistocene climate records from Ethiopia, and their implications for human origins
<b>10:10</b>	<b>Oliver Paine</b> - The effects of season and habitat on the nutritional properties of potential hominin plant foods in an eastern and southern African savanna
<b>10:30</b>	<b>Flavio Altamura</b> - Fossil footprints in the Gombore gully (Melka Kunture, Upper Awash, Ethiopia): A rare snapshot of Pleistocene life and environments
<b>10:50</b>	<b>Federico Lugli</b> - Mothers from the past: Gravettian vs. Epigravettian human mobility strategies at Grotta Paglicci inferred by Sr isotopes of deciduous tooth enamel

**11:10-11:30**      **Coffee Break**

## Session 10 • Pecha Kucha

<b>11:30-11:55</b>	<b>Sarah Freidline</b> - Modern human facial and mandibular growth at the micro and macroscopic levels: marrying bone modeling and geometric morphometric techniques
	<b>Aurélien Mounier</b> - Deciphering African Late Middle Pleistocene hominin diversity and the origin of our species
	<b>Michael Hanks</b> - A test of model predictions for the hominin occupation of Europe using dental non-metric data
	<b>Questions</b>
<b>11:55-12:20</b>	<b>Alexander Stoessel</b> - First experimental analysis of the bonobo and common chimpanzee middle ear function
	<b>Alessandro Urciuoli</b> - Analysis of the primate vestibular apparatus: a comparison of landmark-based and deformation-based 3D geometric morphometric approaches
	<b>Ashleigh L. A. Wiseman</b> - Assessing 3D kinematics across various substrates and speeds in modern humans and the implications for human evolution
	<b>Questions</b>
<b>12:20-12:45</b>	<b>William Sellers</b> - Analysing Primate Grip Shapes Using Geometric Morphometrics
	<b>Tracy Kivell</b> - Trabecular bone structure of the <i>Australopithecus afarensis</i> A.L. 438-1 metacarpals and implications for skeletal age and hand use
	<b>Kimberleigh Tommy</b> - Trabecular structure in the distal tibia of <i>Australopithecus africanus</i> from Sterkfontein Member 4
	<b>Questions</b>
<b>12:45-14:15</b>	<b>Lunch</b>

**Session 11 • Podium**

<b>14:20</b>	<b>Nohemi Sala</b> - The Sima de los Huesos origin of hominin accumulation: The state of the art
<b>14:40</b>	<b>Alessio Veneziano</b> - Of teeth and algorithms: Machine learning reveals the taxonomy of Sima de los Huesos
<b>15:00</b>	<b>Suzanna White</b> - Quantifying Supraorbital Variation in the Middle Pleistocene Hominins
<b>15:20</b>	<b>Federica Landi</b> - Maxillary sinus growth and development in Neanderthals and Sapiens
<b>15:40</b>	<b>Nicole D. S. Grunstra</b> - Global or local: Where do we find phylogenetic signal in cranial shape?
<b>16:00-16:30</b>	<b>Coffee Break</b>

**Session 12 • Podium**

<b>16:30</b>	<b>Collard Mark</b> - Rethinking demography's role in shaping the Palaeolithic archaeological record
<b>16:50</b>	<b>Matt Pope</b> - A New Interpretation of Short Term Group Behaviour at the GTP17 Horse Butchery Site, Boxgrove.
<b>17:10</b>	<b>Annemieke Milks</b> - Assessing hand-delivered wooden spears as effective hunting weapons using experimental, archaeological, and ethnographic evidence
<b>17:30</b>	<b>Geoff M. Smith</b> - Subsistence strategies throughout the African Middle Pleistocene: Zooarchaeological evidence for behavioural change and continuity across the Earlier to Middle Stone Age transition
<b>17:50</b>	<b>Fotios Alexandros Karakostis</b> - Neanderthals habitually performed precise manual activities
<b>18:10</b>	<b>General Assembly</b>
<b>19:30</b>	<b>Closing Dinner : Tertúlia Algarvia, Praça do Afonso III 13-15</b>

## Sunday, September 16<sup>th</sup>

### Excursion

Participants should wear comfortable clothing and shoes. Furthermore, as both archaeological sites are open-air, you are encouraged to bring a hat.

<b>8:30</b>	<b>Departure from Faro Bus Central Station</b>
<b>9:45</b>	<b>Visit the Megalithic Monuments of Alcalar</b> near the city of Portimão with Elena Mórán and Rui Parreira as guides
<b>12:15</b>	<b>Buffet lunch offered by Vila do Bispo Municipality at the Beliche Fortress</b>
<b>14:00</b>	<b>Sight Seeing at Cape Saint Vincent</b> , the southwesternmost point of continental Europe
<b>16:00</b>	<b>Visit to the Paleolithic site of Vale Boi</b> , includes observing the main excavation area, viewing some of the most iconic archaeological materials discovered over the last 15 years of excavations, and hearing a brief explanation by Nuno Bicho
<b>17:30</b>	<b>Departure</b>
<b>19:00</b>	<b>Approximate arrival at Faro Central Station</b>

### Megalithic Monuments of Alcalar

The monumental funerary temples of Alcalar have been classified as a National Monument since 1916 and constitute one of the important Chalcolithic monumental groups of the Iberian Peninsula. Located in an area geographically well delimited by four small river basins, several types of evidence point to an intense human occupation during most of the Chalcolithic period. Such evidence includes the ruins of a vast settlement, interpreted as a territorial central place and power centre that spreads for about 20 hectares in addition to being directly connected to the two dozen monuments of the Megalithic necropolis.

The Portuguese state owns only a part of the Megalithic necropolis: two sepulchral nuclei, where 6 monuments can be visited.

Monument 7, the best preserved from the necropolis, and where several excavation and conservation actions have taken place over the years, is a funerary temple built in the 3rd millennium BC. It is a construction with a corridor and crypt covered in a false dome by a rock cairn. With a circular plan, the monument reaches a diameter of almost 27m, with a rectilinear facade facing the east, at the center of which opens the only entrance to the building. Access to the crypt was through a long narrow corridor covered by large slabs of limestone and oriented to the rising sun. In a clear effort to inhibit access to the crypt, this passage was segmented into increasingly narrow sections, demarcated by monolithic jambs and cleft sills.

Our visit to the site will be guided by Elena Morán and Rui Parreira, who have primarily been responsible for the Alcalar monuments over the years.



## **Paleolithic site of Vale Boi**

The archaeological site of Vale Boi was discovered in 1998 as the outcome of a survey project entitled “The Paleolithic Human Occupation of the Algarve,” led by Nuno Bicho. The site is located less than 20 kilometers from the southwestern-most point of continental Europe, occupying the eastern slope of a wide limestone valley crossed by a small stream. It is one of the largest sites with Upper Paleolithic occupations in western Iberia, with materials spreading over more than 10 000 square meters. Human occupation levels are packed by two systems of Pleistocene sediments: one consisting of a shelter and the fill of a collapsed cave; the other filling a series of calcareous depressions on the slope, thereby creating several terraces that are interspersed with large limestone blocks.

There is evidence for the entire Upper Paleolithic at Vale Boi, including very important levels of the Gravettian, Proto-Solutrean and Solutrean, and more temporary occupations dating to the Magdalenian. Currently, Vale Boi presents one of the oldest occupations by Anatomically Modern Humans in southwestern Iberia, dated to c. 32 ka cal BP and attributed to the Gravettian techno-complex. However ongoing excavations point to the existence of older deposits at the site.

Organic preservation is very good across all chronologies, allowing for the recovery of hundreds of thousands of mammalogical and malacological remains over the last 15 years of excavations. Land fauna is mostly composed of horse, ass, red deer, aurochs, boar, and rabbit, and less frequently, the remains of lynx, fox, bear, and lion. Aquatic resources are represented by limpets, mussels, clams and scallops, as well as a very rich and diverse set of other species (e.g. *Littorina obtusata*, *Trivia monacha*, *Antalium* sp.) used for the manufacture of adornments. Additionally, Vale Boi presents one of the most numerous assemblage of bone tools as well as portable engraved art in Portugal.

During our visit to Vale Boi you will be able to see not only the main excavation areas, but also a large sample of the most relevant archaeological remains recovered over the years.

## Thursday Posters

Odd numbers will present between **18:15-19:00** and even numbers will present between **19:00-19:45**.

1	<b>Guillermo Zorrilla-Revilla</b> - Reappraising the Gran Dolina TD6.2 Cannibalism from an energetic perspective
2	<b>Michael Walker</b> - The earliest European Acheulian: The significance of recent findings for human evolution in Europe
3	<b>Norman Fernández</b> -Cueva Negra del Estrecho del Río Quípar (Caravaca de la Cruz, Murcia, SE Spain): Intrasite analysis of a late Early Pleistocene Palaeolithic palimpsest
4	<b>Marianne Deschamps</b> - The short-term occupations of Cueva Antón: site function and techno-economic behavior of last interglacial Iberian Neandertals
5	<b>Telmo Pereira</b> - The earlier Mousterian in westernmost Iberia: geoarchaeology of the Cobrinhos site, in the Tejo River terrace staircase of Vila Velha de Ródão (Portugal)
6	<b>Mariana Nabais</b> - Systematic or opportunistic use of small prey in the Middle Palaeolithic? A view from Gruta da Figueira Brava, Portugal
7	<b>Joao Cascalheira</b> - A geometric morphometric approach to predict the chronological attribution of bifacial foliate technology at Olival do Arneiro (central Portugal)
8	<b>Milena Carvalho</b> - Assessing environmental change at Lapa do Picareiro (Portugal): A stable isotopes analysis using rabbits ( <i>Oryctolagus cuniculus</i> ) and red deer ( <i>Cervus elaphus</i> ) as paleoenvironmental proxies
9	<b>Cristina Gameiro</b> - The Pleistocene-Holocene transition: new data from the sites of Rôdo, Vau and Bispeira 8 (Vouga valley, Portugal)
10	<b>Joana Filipa Belmiro</b> - At the threshold of the Last Glacial Maximum in southwestern Iberia: new evidence from the site of Vale Boi (Portugal)
11	<b>Jonathan Haws</b> - The Middle-Upper Paleolithic Transition in Southern Iberia: New Data from Lapa do Picareiro Portugal
12	<b>Dirk Leder</b> - Late Pleistocene landscapes and human mobility in the southern Levant: Results of geoarchaeological research in the Wadi Sabra, Jordan, and the Dead Sea
13	<b>Eduardo Paixão</b> - Ground breaking technologies in the Middle Paleolithic of the Levant: High resolution functional analyses of Ground Stones Tools
14	<b>Pedro Horta</b> - Lithic bipolar technology through space and time
15	<b>Aldo Malagó</b> - Quantification of raw material properties and their influence on the morphology of lithic tools
16	<b>Karen Ruebens</b> - TIP-N-POINT: a regional and assemblage scale perspective on Neanderthal point technologies across Western Europe
17	<b>Paul Kozowyk</b> - Go with the flow: an assessment of Palaeolithic adhesive re-usability and application characteristics using oscillating shear rheology
18	<b>Lauren Bell</b> - Human or Neanderthal: A multi-disciplinary study in search of the makers of the Uluzzian technocomplex in Upper Palaeolithic Italy
19	<b>Klervia Jaouen</b> - Compound-specific amino-acid d15N measurements of two Neandertals indicate high trophic-level diets
20	<b>Eléa Gutierrez</b> - Weaning practices in early Montreal with dentine micro-sampling and nitrogen isotopic analysis
21	<b>Stefania Milano</b> - Environmental reconstruction in the context of the first <i>Homo sapiens</i> in Indochina (Tam Pà Ling site, NE Laos)

22	<b>Nicolas Bourgon</b> - Zinc isotopes as a dietary indicator for archaeology and paleontology: Insights from a Southeast Asian Late Pleistocene food web
23	<b>David M. Alba</b> - Bio- and magnetostratigraphic correlation of the Miocene primate-bearing site of Castell de Barberà: End of the controversy
24	<b>Vera Aldeias</b> - A Micro-Contextual Approach to Neandertal use of fire at Pech de l'Azé IV (Dordogne, France)
25	<b>Iliaria Patania</b> - Micromorphological Analysis of the Deposits at the Early Pottery Xianrendong Cave Site, China
26	<b>Bence Viola</b> - Morphology of the purported human remains from Sel'ungur cave, Kyrgyzstan
27	<b>Carlos A. Palancar</b> - Reconstruction of the atlas (C1) of the La Chapelle-aux-Saints Neandertal through geometric morphometric techniques
28	<b>Asier Gómez-Olivencia</b> - New Neandertal fossils and first data of Middle Paleolithic bird and carnivore exploitation in the Cantabrian Region
29	<b>Adrián Pablos</b> - Those that were missing. A Neandertal foot phalanx from Galería de las Estatuas (Sierra de Atapuerca, Spain)
30	<b>Maria Giovanna Belcastro</b> - How much musculoskeletal variability did Neandertals accumulate? The study of the lower limbs entheses of the Neandertal sample from El Sidrón, Asturias, Spain.
31	<b>Rebeka Rmoutilová</b> - Extreme asymmetry of sacral alae in the Neandertal Regourdou 1 (Montignac-sur-Vézère, Dordogne, France)
32	<b>Luca Fiorenza</b> - Dental macrowear and cortical bone thickness analyses of the Neandertal mandible from Regourdou (Dordogne, Southwestern France)
33	<b>Stanislava Eisová</b> - The Neandertal endocast from Gánovce (Poprad, Slovak Republic)
34	<b>Libby Cowgill</b> - How large were Neandertal infants?
35	<b>A. Sofia Pereira-Pedro</b> - Comparison of parietal lobe morphology in modern humans and Neandertals
36	<b>Juliet Brophy</b> - New craniodental remains of the type specimen of <i>Australopithecus sediba</i> and a morphological assessment of the mandibular third premolars
37	<b>Almudena Estalrrich</b> - Toothpicking habit in early Homo. New evidence from OH62 (Olduvai Gorge, Tanzania)
38	<b>Zachary Cofran</b> - Bilateral symmetry of the temporal bone with implications for commingled fossil assemblages
39	<b>Cedric Boeckx</b> - The molecular evolution of human-specific facial traits and socio-cognitive profile: Insights from neurocrisopathies
40	<b>Fabio Di Vincenzo</b> - Of teeth, feet and feed. The unexpectedly rapid evolution of mandibular shape in hominins
41	<b>Noemí Pérez-López</b> - Paranasal sinuses still have much to say: introducing the surface-volume index of frontal sinuses
42	<b>Martin Friess</b> - Shape variation in Middle and Late Pleistocene human calvariae
43	<b>Antonino Vazzana</b> - Digital reconstruction of the LB1 H. floresiensis cranium
44	<b>Noémie Bonneau</b> - CT-scan data of juvenile pelvises : application for 3D fossils reconstruction
45	<b>Kudakwashe Jakata</b> - Investigation of uncertainty in CT and the implications on human evolution studies

46	<b>Antonio Profico</b> - Arothron: an R package for virtual anthropology to build endocast and to perform digital reconstruction
47	<b>Costantino Buzi</b> - CA-LSE and AST-3D: two new digital tools for reproducing the inner cavities of skeletal elements
48	<b>Kimberly Plomp</b> - Adaptations for bipedalism in human vertebrae: A 3D geometric morphometric analysis
49	<b>Antonietta Del Bove</b> - Sexual dimorphism in human frontal bone: a landmark-based approach.
50	<b>Alexandra Schuh</b> - Ontogeny of the human maxilla: A study of intra specific variation using surface histology and geometric morphometrics
51	<b>Stephanie Melillo</b> - Reconstructing the shoulder girdle from skeletal remains
52	<b>Guillermo Bravo Morante</b> - Predicting age at death from the shape of the human pubic symphysis by bandpass filtering of bending energy
53	<b>Yann Heuze</b> - Potential effects of muscularity on nasal cavity nasal airways and paranasal sinuses form
54	<b>Tarah N. Marks</b> - Evidence for climatic adaptation in human nasal turbinate morphology
55	<b>Ella Been</b> - Spinal posture and pathology: evolutionary aspect
56	<b>Natalia Morales</b> - The importance of the environment in the modification of craniofacial architectural relationships in <i>Homo sapiens</i>
57	<b>Gabriele Macho</b> - Did the environment drive hominin life history evolution?
58	<b>Andrej Evteev</b> - The level of correlation between mid-facial craniometric, neutral genetic and climatic distances completely depends on the scale of comparison
59	<b>Gizéh Rangel de Lázaro</b> - Ontogenetic changes of diploic channels in modern humans, and a comparison to fossil hominins
60	<b>María Asunción Cabestrero-Rincón</b> - A new methodological approach in the study of the differential evolution of cerebral and cerebellar fossae in recent <i>Homo</i> . Additional Data.
61	<b>Catherine Taylor</b> - Quantifying curvature in bones without landmarks: A study of primate clavicles
62	<b>Kevin Rosenfield</b> - The evolution of fertility signals in primates: An agent-based modeling approach
63	<b>Thomas Püschel</b> - Inferring locomotor behaviours in Miocene New World monkeys using talar morphology as proxy
64	<b>Florian Bouchet</b> - The inner craniodental anatomy of the <i>Papio</i> specimen U.W. 88-886 from the Early Pleistocene site of Malapa, Gauteng, South Africa
65	<b>Johan Arif</b> - The Pongo in the Pleistocene period in Java: Their earlier presence in the fossil record?
66	<b>Miguel Prôa</b> - Primate evolution by random genetic drift: Comparing linear and geometric morphometrics of the cranium in testing cercopithecine divergence
67	<b>Thomas O'Mahoney</b> - Analysis of changes in body mass through ontogeny in a captive <i>Pan troglodytes</i> sample
68	<b>Lisa Schunk</b> - Understanding edge angle variability and morpho-functional design of Late Middle Palaeolithic Keilmesser assemblages
69	<b>Tina Lüdecke</b> - Dietary versatility of early Pleistocene hominins

## Friday Posters

Odd numbers will present between **18:15-19:00** and even numbers will present between **19:00-19:45**.

1	<b>John Graham</b> - Do rhetorical devices work? A text analysis of research paper titles in Neanderthal studies 1970-2017
2	<b>Frederick Coolidge</b> - Evolutionary implications of the Sense of Numbers
3	<b>Simon Maxwell</b> - Sporadic sampling not climatic forcing drives early hominin taxic diversity
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