

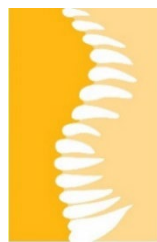


NOW 25th Anniversary Meeting

Sabadell (Barcelona), 16–18 November 2022

Organized by the Institut Català de Paleontologia Miquel
Crusafont (ICP)

PROGRAM



ICP^R

Institut Català de Paleontologia
Miquel Crusafont



Organizing committee

Isaac Casanovas-Vilar
David M. Alba
David Basanta
Pere Figuerola

Scientific committee

David M. Alba (ICP)
Júlia Arias-Martorell (ICP)
Isaac Casanovas-Vilar (ICP)
Marc Furió (Universitat Autònoma de Barcelona & ICP)

Christine M. Janis (University of Bristol, Brown University)
Kari Lintulaakso (Finish Museum of Natural History LUOMUS)
Àngel H. Luján (ICP)
Raquel Moya-Costa (ICP)
Pasquale Raia (Università degli Studi di Napoli Federico II)
Juha Saarinen (University of Helsinki)
Lars W. Van den Hoek Ostende (Naturalis Biodiversity Center)
Indrė Žliobaitė (University of Helsinki)

Part of R+D+I project PID2020-117289GBI00



Sponsors



Program at a glance:

	Wednesday 16	Thursday 17	Friday 18	
09:00-09:15	REGISTRATION	Žliobaitė	Bus travel from Sabadell to Subirats	
09:15-09:30				
09:30-09:45				Welcome
09:45-10:00	Fortelius	Foister	Stop 1: Castell de Subirats	
10:00-10:15				
10:15-10:30				Janis
10:30-10:45				Saarinen
10:45-11:00	Aiglstorfer	Samuels	Stop 2: Casots fossil site	
11:00-11:15	COFFE BREAK	COFFE BREAK		
11:15-11:30				
11:30-11:45	Bilgin	Sanisidro	Visit Caves Olivé i Batllori	
11:45-12:00	Kordos	Wilson		
12:00-12:15	Moya-Costa	Hopkins		
12:15-12:30	Agustí	Parker		
12:30-12:45	Sinitsa	Alba		
12:45-13:00	Skandalos	Arranz		
13:00-13:15	LUNCH	LUNCH		LUNCH
13:15-13:30				
13:30-13:45				
13:45-14:00				
14:00-14:15	Van Dam	McKenzie		
14:15-14:30	Van der Made	Navarro Cascalló		
14:30-14:45	Pushkina	Aiglstorfer		
14:45-15:00	Benevento	Barry		
15:00-15:15	Bernor	Belmaker	Stop 3: Can Sala Coral Reef	
15:15-15:30	Cailleux	Sánchez López		
15:30-15:45	COFFE BREAK	COFFE BREAK	Bus travel from Subirats to Hostalets de Pierola	
15:45-16:00				
16:00-16:15	Flynn	Talavaara		
16:15-16:30	Liu	Lintulaakso		
16:30-16:45	Mennecart	DISCUSSION	Stop 4: Can Mata fossil sites	
16:45-17:00	Braumuller			
17:00-17:15		CLOSURE		
17:15-17:30		Modernist tour Sabadell	bus travel from Hostalets de Pierola to Sabadell	
17:30-17:45				
17:45-18:00				
18:00-18:15				
18:15-18:30				
18:30-18:45		Beer at the ICP museum		
18:45-19:00				
19:00-19:15				
19:15-19:30				

Detailed program

INVITED KEYNOTES:

Wednesday 16th, 09:45–10:45

Mikael Fortelius, NOW co-founder and honorary member, University of Helsinki (Finland). *NOW as it happened: The first decades*

Thursday 17th, 09:00–10:00

Indrė Žliobaitė, NOW general coordinator, University of Helsinki (Finland). *Teeth, limits and NOW: What can we expect from the Red Queens perspective*

THEMATIC SESSIONS:

Oral communications, bold font indicates presenting author.

The times they are a changin': Systematics and biochronology

Wednesday 16th, 10:45-14:45

Chair: Manuela Aiglstorfer, Naturhistorisches Museum Mainz/Landessammlung für Naturkunde Rheinland-Pfalz (Mainz, Germany)

10:45 **Aiglstorfer, M.**, Lischewsky, B., Grimm, K., & Grimm, M. Eppelsheim—A key site for mammalian paleontology revisited

11:30 **Bilgin, M.**, Joniak, P., Mayda, S., Peláez-Campomanes, P., Gökteş, F., & van den Hoek Ostende, L. W. Updated Early Miocene biochronology of Anatolia

11:45 **Kordos, L.**, & Mészáros, I. Late Miocene habitat changes in the same section at Alsótelekes close to Rudabánya (NE Hungary)

12:00 **Moya-Costa, R.**, Cuenca-Bescós, G., & Rofes, J. The soricids (Eulipotyphla, Mammalia) of Gran Dolina (Early– Middle Pleistocene, N Spain): Systematics and biochronological implications

12:15 Piñero, P., Martín-Perea, D. M., Sevilla, P., **Agustí, J.**, Blain, H.-A., Furió, M., Laplana, C. La Piquera: A new early Ruscinian karstic site from central Spain

12:30 **Sinitsa, M. V.** Evolutionary history and dispersal of Holarctic ground squirrels (Rodentia, Xerinae, Marmotini)

12:45 **Skandalos, P.**, Joniak, P., & van den Hoek Ostende, L. W. Enamel free areas, the key to unlock Arvicolinae taxonomy

14:00 **Van Dam, J. A.**, Mein, P., Garcés, M., van Balen, R. T., Furió, M., & Alcalá, L. Between local zones and MN units: A new inter-basinal rodent zonation for the late Neogene of Spain

14:15 **Van der Made, J.** An updated range chart for the Oligocene to recent west Eurasian Suoidea. Variation in species richness

14:30 **Pushkina, D.** Biochronology of the Pleistocene localities in Northern Eurasia with the emphasis on large mammals of the former USSR territories

New avenues for incredibly old travelers: Modern-day paleobiogeography and paleobiodiversity research and future directions

Wednesday 16th, 14:45–17:00

Chair: Pasquale Raia, Università degli Studi di Napoli Federico II (Naples, Italy)

14:45 **Benevento, G. L.**, Meijer, N., Mulch, A., & Fritz, S. Middle Eocene aridification drove a drop in Asian mammal biodiversity that preceded the Eocene–Oligocene Transition

15:00 **Bernor, R. L.**, Cirilli, O., & Kaya, F. Old World Equidae dispersals, evolutionary radiations, and biogeographic extensions since 11.1 Ma

15:15 **Cailleux, F.**, van den Hoek Ostende, L. W., Mein, P., & Joniak, P. Paleopathologies and bite marks: The last stand of the Miocene gymnure *Galerix stehlini* (Mammalia, Eulipotyphla)

16:00 **Flynn, L. J.**, & Morgan, M. E. Siwalik rodent relative abundances and recognition of metacommunities

16:15 **Liu, L.**, Galbrun, E., Tang, H., Kaakinen, A., Zhang, Z., & Žliobaitė, I. Computational ecoregions in Asia in the present and the past

16:30 **Mennecart, B.** The earliest ruminants from Western Europe, two different stories, two different Asiatic origins

16:45 **Madern, A., Braumüller, Y.**, Mavikurt, A. C., Berwerff, L., Janssen, N., Cantalapiedra, J., Casanovas-Vilar, I., van Welzen, P. & van den Hoek Ostende, L. W. Where's dinner? Variation in carnivoran distributional responses to Vallesian faunal turnover

Ecometric and paleoecological research based on the NOW database – Novel research questions, data and methods to unravel large-scale climate, paleoenvironments and biotic patterns

Thursday 17th, 10:00–12:30

Chair: Juha Saarinen, University of Helsinki (Helsinki, Finland)

10:00 **Foister, T. I. F.**, Fortelius, M., Tallavaara, M., & Žliobaitė, I. An assessment of heterogeneity in hominin paleoecology through hypsodonty of mammalian communities

10:15 **Janis, C. M.** Asymmetry of evolutionary patterns between Old World and New World equids

10:30 **Saarinen, J.** Elephants and environments—new developments in understanding the evolution and ecometrics of Proboscidea during the Cenozoic

- 10:45 **Samuels, J. X.**, & Schap, J. A. Climate and habitat changes drove mammal community evolution through the Cenozoic of Oregon: Comparing community structures to paleoclimate data
- 11:30 **Sanisidro, Ó.**, Cantalapiedra, J. L., Zhang, H., Alberdi, M. T., Prado, J. L., Blanco, F. & Saareinen, J. The life history of proboscidean functional diversity
- 11:45 **Wilson, O.**, Parker, A. & Saareinen, J. Community composition scoring using a pre-human baseline: Applications for conservation, taphonomy, climate reconstruction
- 12:00 **Hopkins, S. B.** The effects of Cenozoic ecosystem change on small mammal community ecology over three continents
- 12:15 **Parker, A.**, Liu, L., Tallavaara, M., Kaakinen & Žliobaitė, I. A recommender systems approach to reconstructing mammal faunas across Pleistocene Eurasia

The Vallès-Penedès Basin: A high-resolution continental record of Miocene climatic and biotic dynamics

Thursday 17th, 12:30–14:30

Chair: Isaac Casanovas-Vilar, Institut Català de Paleontologia Miquel Crusafont (Sabadell, Spain)

- 12:30 **Alba, D. M.**, Torres, J., DeMiguel, D., Casanovas-Vilar, I. The Vallès-Penedès Miocene Vertebrates Paleobiodiversity Database
- 12:45 **Arranz, S. G.**, Casanovas-Vilar, I., Alba, D. M. Paleoenvironmental inferences on the Late Miocene hominoid-bearing site of Can Llobateres (NE Iberian Peninsula): An ecometric approach based on functional dental traits
- 14:00 **McKenzie, S.**, Sorbelli, L., Cherin, M., Almécija, S., Pina, M., Abella, J., Luján, À. H., DeMiguel, D., Alba, D. M. Earliest Vallesian suid remains from Creu de Conill 20 (Vallès-Penedès Basin, NE Iberian Peninsula)
- 14:15 **Navarro Cascalló, J.**, Abella, J., Luján, À. H., Sánchez, I. M., Casanovas-Vilar, I. Diet and habitat of *Ampelomeryx ginsburgi* (Artidactyla: Palaeomerycidae) of the Middle Miocene site of els Casots (Vallès-Penedès Basin, Catalonia)

Data Management, Development, and Expansions of NOW

Thursday 17th, 14:30–16:30

Chair: Kari Lintulaakso, Finish Museum of Natural History LUOMUS (Helsinki, Finland)

- 14:30 **Aiglstorfer, M.**, Žliobaitė, I., Amson, E., Lintulaakso, K., & Heizmann, E. Going digital—The Elmar Heizmann Typenkatalog
- 14:45 **Barry, J. C.**, **Behrensmeyer, A. K.**, Morgan, M. E., & Pilbeam, D. R. The Harvard–Geological Survey of Pakistan Siwalik Database
- 15:00 **Belmaker, M.** The potential of intraspecies ecometrics in NOW: *Microtus guentheri* (Rodentia, Cricetidae) mesowear as an example

- 15:15 **Sánchez López, L.**, Ruiz-Sánchez, F. J., & Fagoaga, A. New contributions to the knowledge of the paleobiogeographical context of the Late Miocene–Early Pliocene rodent fauna from the Iberian Peninsula
- 16:00 **Tallavaara, M.**, Belmaker, M., Vepsäläinen, J., Lintulaakso, K., & Žliobaitė, I. Archaeology tab—A new feature in the NOW database
- 16:15 **Lintulaakso, K.**, Žliobaitė, I. The future and current NOW