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XXIII **LECCE** 1993-2023 PALEODAYS

**XXIII Edizione delle Giornate di Paleontologia
(6) 7-9 giugno 2023**



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DI FISICA E GEOLOGIA



PROGRAMMA

Mercoledì 7 giugno

08:00 – 09:00	REGISTRAZIONE
09:00 – 10:00	APERTURA DEI LAVORI E SALUTI DELLE AUTORITÀ
10:00 – 10:30	<i>Invited talk</i> - Benazzi S. A focus on Italy to disentangle the earliest migration of <i>Homo sapiens</i> in Southern Europe
10:30 – 11:00	COFFEE BREAK
Sessione 1 – Moderatori: Maria Marino & Raffaele Sardella	
11:00 – 11:10	Addante M. , Girone A., Maiorano P., Marino M., Scopelliti G., Trotta S. & Caruso A. Climate variability in the Monte San Nicola type-section (Sicily): high-resolution calcareous plankton fluctuations over the Pliocene-Pleistocene transition
11:10 – 11:20	Antonelli M., Petti F.M. , De Sario F., Sacco E., La Perna R., Marino M., Marsico A., Petruzzelli M., Sabato L., Spalluto L. & Tropeano M. The high dinosaur biodiversity in the Apulia carbonate platform: evidence from the Lama Balice tracksite (upper Albian, Southern Italy)
11:20 – 11:30	Argenio C. , Flores J.A., Fuertes M.A., Balestra B., Cerulo L., Cachão M. & Amore F.O. Coccolith input into the reconstruction of sea surface dynamic: Iberian margin and North Atlantic Ocean
11:30 – 11:40	Strani F. , Di Folco F., Iurino D.A., Cherin M., Pushkina D., Rook L., Sardella R., Azanza B. & DeMiguel D. Combining palaeoecological and palaeoneurological analyses to disentangle cervid evolutionary history in relation to climate changes: the case study of the Early Pleistocene deer from Pirro Nord (Italian Peninsula)
11:40 – 11:50	Bartolini Lucenti S. Old World Early Pleistocene Canidae record: a biogeographic perspective
11:50 – 12:00	Bellucci L. , Bartolozzi L., Biaggini M., Cecchi L., Di Vincenzo F., Innocenti G., Manca R., Mancinelli M.L., Moggi Cecchi V., Porena M., Presutti V., Rossi P.F., Rossi De Gasperis S., Veninata C. & Benvenuti M. DISSCO RI: towards a European infrastructure for scientific collections
12:00 – 12:10	Bindellini G. , Benton M.J., Petti F.M., Bernardi M., Rubidge B., Hancox J. & Romano M. Middle Triassic: the onset of modern terrestrial tetrapod faunas
12:10 – 12:20	Borrelli M. , Perri E., Heimhofer U., Santagati P. & Le Pera E. Neogene cold-seep microbial carbonates (Croton basin - South Italy)
12:20 – 12:30	Bosellini F.R. & Stolarski J. Eocene stilt walkers: unique rotatory growth strategy of the scleractinian coral <i>Stylocoenia</i>

12:30 – 12:40	Branz R. & Kustatscher E. Cuticles: a world waiting to be discovered
12:40 – 12:50	Calzoni P. , Amalfitano J., Marramà G., Carnevale G. & Giusberti L. The Rhamphosidae (Teleostei, Syngnathiformes) from the Eocene of Bolca
12:50 – 13:00	Carnevale G. & Tyler J.C. The dawn of moorish idols (Teleostei, Zanolidae) in the Eocene of Bolca
13:00 – 13:10	Carniti A.P. , Della Porta G. & Angiolini L. Are the Mississippian mud-dominated carbonate buildups of Derbyshire “mud mounds”?
13:10 – 14:10	PRANZO
14:10 – 14:40	MAUS: Sessione poster
14:40 – 14:50	MAUS: Ricordo di Angelo Varola
Sessione 2 – Moderatori: Fabio Bona & Francesca Bosellini	
14:50 – 15:00	Caruso A. , Cosentino C., Scopelliti G. & Herbert T. Risposta delle associazioni a foraminiferi alle oscillazioni climatiche durante il Gelasiano-Calabriano: dati ottenuti dalla successione di Capo Rossello (Sicilia)
15:00 – 15:10	Chiarenza A.A. , Farnsworth A.J., Jones L.A., Cantalapiedra J.L., Gamboa S., Galvan S., Sotelo G. & Varela S. Tempo e modo nell’evoluzione della nicchia climatica in Dinosauria (Sauropsida: Archosauria)
15:10 – 15:20	Nobile F. , Collareta A., Perenzin V., Fornaciari E., Giusberti L. & Bianucci G. First Mediterranean record of the delphinidan genus <i>Kentriodon</i> from a new lower Miocene odontocete locality at Feltre (northeastern Italy)
15:20 – 15:30	Crippa G. , Chiari A., Cremaschi M., Dapiaggi M., Lischi S. & Leng M.J. Mollusc shells as a tool to reconstruct the palaeoenvironment and the palaeoclimate in the HAS1 settlement (Holocene, Oman)
15:30 – 15:40	D’Amico F. , Guido A., Kočí T., DeVries T.J., Collareta A., Bosio G. & Sanfilippo R. Double-phased biomineralization processes in marine invertebrates: the example of cirratulids (Polychaeta, Annelida) from southern Peru
15:40 – 15:50	Danise S. , Giachetti G., Baneschi I., Casalini M., Miniati F., Dominici S. & Boschi C. Seasonal growth patterns of pectinids from the warm Mediterranean Pliocene
15:50 – 16:00	De Bortoli L. Morphometric analyses of the Pliocene oysters from Buttigliera d’Asti (Asti, NW Italy)
16:00 – 16:10	Della Giustina F. & Vila B.

New allodaposuchid remains from the Late Cretaceous of Catalonia (Spain): insights into dermal and postcranial skeletal anatomy

16:10 – 16:20 **Di Martino E.** & Porto A.

DeepBryo: a web app for bryozoan AI-assisted morphometric characterization

16:20 – 16:50 COFFEE BREAK

Sessione 3 – Moderatori: Giorgio Carnevale & Gaia Crippa

16:50 – 17:00 **Dominici S.**, Danise S. & Tintori A.

The silicified molluscs of Pelsa-Vazzoler (eastern Dolomites, Italy) and the late Middle Triassic diversification of marine life

17:00 – 17:10 **Faggi A.**, Bartolini Lucenti S. & Rook L.

Assessing relevance and vulnerability of palaeontological sites: an analytical procedure

17:10 – 17:20 **Viaretti M.**, Jurikova H. & Angiolini L.

Silicified shells as archives of geochemical proxies: the hidden potential of a diagenetic process

17:20 – 17:30 **Franceschi F.**, Marramà G. & Carnevale G.

Reassessment of a putative peltopleurid fish from the Sinemurian (Lower Jurassic) of Osteno (Como, Italy): preliminary results

17:30 – 17:40 **Frosali S.**, Bartolini-Lucenti S., Madurell-Malapeira J., Costeur L. & Rook L.

The analysis of the frontal sinus in the genus *Eucyon*: evolutionary and ecological insights

17:40 – 17:50 **Guido A.**, Alifano P., Talà A., Calcagnile M. & Belmonte G.

Microbial biomineralizations in tidally-influenced subterranean settings (Zinzulùsa Cave, Castro, Italy)

17:50 – 18:00 **Iannucci A.**, Souron A. & Rabinovich R.

Bethlehem suids reconsidered: chronological and paleobiogeographic implications

18:00 – 18:10 **Kustatscher E.**, Trümper S., Rößler R., Morelli C., Krainer K., Karbacher S., Vogel B., Antonelli M. & Sacco E.

The first Kungurian fossil forest reveals wetland conifers to thrive in peri-Tethyan Pangea

18:10 – 18:20 **Loddi C.**, Bartolini Lucenti S., Madurell-Malapeira J. & Rook L.

Plioviverrops faventinus, a small Messinian hyaenid from Italy: a revision

18:20 – 18:30 **Madurell-Malapeira J.**, Bartolini Lucenti S., Prat-Vericat M., Costeur L. & Rook L.

Pachycrocuta, an active hunter or a social scavenger? Insights from postcranial morphology

Giovedì 8 giugno

08:30 – 19:00 ESCURSIONE

Venerdì 9 giugno

Sessione 4 – Moderatori: Annalisa Ferretti & Piero Lionello

- 09:00 – 09:10 **Malinverno E.**, Saavedra-Pellitero M., Colucci M. & IODP-383 Scientists
Coccolithophore variations in the subantarctic South Pacific along late Quaternary glacial-interglacial cycles
- 09:10 – 09:20 **Marramà G.** & Carnevale G.
Double-armoured herrings (Clupeomorpha: Ellimmichthyiformes) from the Lower Cretaceous of Pietraraja (Southern Italy)
- 09:20 – 09:30 **Mecozi B.**, Iannucci A., Sardella R., Carpentieri M., Pineda A., Rabinovich R. & Moncel M.H.
New paleontological results on the early Middle Pleistocene of Notarchirico (Venosa, Southern Italy)
- 09:30 – 09:40 **Merella M.**, Collareta A., Casati S., Di Cencio A., Pieri A. & Bianucci G.
It's time to eat: great white shark (*Carcharodon carcharias*) bite marks on balaenid (right whale) remains from the Pliocene of Tuscany (Central Italy)
- 09:40 – 09:50 **Mondanaro A.**, Dominici S. & Danise S.
Bivalve response to Plio-Pleistocene climate change in the Mediterranean Sea
- 09:50 – 10:00 **Moscarella A.**, Iurino D.A., Conti J., Bona F., Di Giancamillo M. & Sardella R.
Endocranial pneumatization of *Ursus spelaeus* and implications in the bite force
- 10:00 – 10:10 **Muscioni M.**, Dreossi D. & Fanti F.
Synchrotron tomography provides novel insights into the dental anatomy of *Acynodon adriaticus* (Eusuchia, Hylaeochampsidae)
- 10:10 – 10:20 **Mussini G.**, Smith M.P., Rahman I.A., Murdock D.J.E., Vinther J., Harper D.A.T. & Dunn F.S.
Cambrian bipartite animals reveal a lost chapter in chordate history
- 10:20 – 10:30 **Coletti G.**, Commissario L., Mariani L., Bosio G., Desbiolles F., Soldi M. & Bialik O.M.
Cenozoic carbonate facies of Asia: the hidden potential of the shallow water record
- 10:30 – 10:40 **Pandolfi L.** & Rook L.
Deconstructing the classical Late Miocene faunal assemblages of the Tusco-Sardinian paleobioprovince
- 10:40 – 10:50 **Parisi R.** & Mazzini I.
Middle Pleistocene to Holocene ostracod assemblages from the Corinth Gulf
- 10:50 – 11:00 **Parparousi E.M.**, Madurell-Malapeira J., Sorbelli L., Breda M. & Cherin M.
The outstanding *Dama*-like deer sample from Vallparadís Estació (Iberian Peninsula, Early Pleistocene)

11:00 – 11:30 COFFEE BREAK

Sessione 5 – Moderatori: Angela Girone & Giuseppe Marramà

- 11:30 – 11:40 **Perri E.**, Borrelli M. & Ponte M.
Microbially mediated Ca-carbonate precipitation in tufa fluvial system: an innovative approach to develop a new generation of sustainable bio-inspired materials
- 11:40 – 11:50 **Romano M.**, Van den Brandt M.J., Day M.O., Manucci F., Viglietti P.A. & Angielczyk K.D.
In-vivo 3D reconstruction and first volumetric body mass estimate of the oldest Karoo pareiasaur *Bradysaurus baini*
- 11:50 – 12:00 **Rossi V.**, Iurino D.A., Terranova E., Fornasiero M., Bernardi M., Sardella R. & Kustatscher E.
Impossible fossils: can soft tissues fossilize in volcanoclastic settings?
- 12:00 – 12:10 **Rosso A.**, Sanfilippo R., Donato G., Sciuto F., D'Alpa F., Caccamo D., Minniti G., Bracchi V.A., Savini A., Malinverno E., Guido A., Bazzicalupo P., Negri M.P., Cipriani M., Leonardi R., Viola A. & Basso D.
Biogenic content of surface cores from deep-shelf bottoms close to the coralligenous off Marzamemi (SE Sicily, Ionian Sea): preliminary data
- 12:10 – 12:20 **Sardella R.**, Conti J., Germani M., Iannucci A., Iurino D.A., Mecozzi B., Messina M.Y., Moscarella A., Piovigiana M., Strani F. & Vona S.
MAE: Museo Archeologico Ernico - A brand-new museum in Anagni is born
- 12:20 – 12:30 **Sorbelli L.**, Madurell-Malapeira J., Brugal J.P., Kostopoulos D.S. & Cherin M.
Leptobos and *Bison* limb proportions and body mass changes in response to environmental transitions during the Pleistocene
- 12:30 – 12:40 **Stefanelli D.**, Mecozzi B., Breda M., Girone A., La Perna R., Maiorano P., Marino M. & Sardella R.
Rediscovering the fossil collection from the late Early Pleistocene site of Pirro Nord (Foggia, Southern Italy) at the Bari University
- 12:40 – 12:50 **Azzarà B.**, Cherin M., Boschian G., Iurino D.A., Menconero S., Bona F., Cirilli O., Kimambo J.S., Masao F.T., Barili A., Ambrose S.H. & Manzi G.
Reappraisal of the upper Olduvai Beds (Tanzania): insights from a new faunal assemblage from Geolocality 83
- 12:50 – 13:00 **Tomelleri I.**, Wagensommer A. & Kustatscher E.
Collezioni storiche: problematiche e strategie per la valorizzazione e comunicazione nel caso della Collezione Georg Gasser (1857-1931)
- 13:00 – 13:10 **Vallè F.**, Nowak H., Kustatscher E., Roghi G., Morelli C., Krainer K., Preto N. & Hartkopf-Fröder C.
Reconstruction of depositional environments in the Kungurian Megacaldera of the Athesian volcanic group: a multi-proxy approach

13:10 – 13:20	Ferretti A. & Balini M. 60 years of the Italian Paleontological Society through its journal
13:20 – 14:20	PRANZO
14:20 – 14:50	MAUS: Sessione poster
14:50 – 17:00	ADUNANZA GENERALE DEI SOCI SPI
a seguire	COFFEE BREAK CONCLUSIVO E SALUTI

POSTER

Amore F.O., Argenio C., Faranda C., Ferraro L., Gliozzi E., Magri D., Michelangeli F., Relvini A., Russo B., Siciliano J., Vallefucio M., Meo A. & Senatore M.R.

Multidisciplinary analysis of the sedimentary succession at San Giuliano Lake (Matera, Southern Italy): sedimentological, biostratigraphic and palaeoecological reconstruction

Antonelli M., **Petti F.M.**, De Sario F., Sacco E., Petruzzelli M., Sabato L., Spalluto L. & Tropeano M.

Theropod tracks from the Lama Badessa ichnosite (middle-upper Cenomanian, Apulia, Southern Italy)

Bianucci G., Geisler J.H., Collareta A., Sfravara L., Merella M., Carnevale G., Damarco P. & Ferretti M.P.

Disparity *vs* diversity within the *Hemisyntrachelus* lineage (Cetacea, Delphinidae): a review of the Italian Pliocene record

Birarda G., **Buosi C.**, Caridi F., Casu M.A., De Giudici G., Di Bella L., Medas D., Meneghini C., Pierdomenico M., Sabbatini A., Surowka A. & Vaccari L.

Impact of plastic pollution on benthic foraminifera

Bordiga M., Lupi C., Sacchi R., Ferretti P., Crowhurst S.J. & Cobiachi M.

Eccentricity signal in the time-series of nannofossil species at mid-latitude across the mid-Pleistocene transition (ODP site 1209, northwestern Pacific Ocean)

Carnevali V. & **Bona F.**

Paleoenvironmental considerations on the Val Seriana Valley (north-western Italy) during the Upper Pleistocene. The small-mammal fossils from Bùs di Tri Fradèi Cave (Oltre il Colle, BG) as palaeoclimatic proxy data

Carniti A.P., Anderson C.M. & Angiolini L.

Brachiopods and conodonts from the upper Mississippian Tonka Formation of Carlin Canyon, Nevada

Cieszynska W.K.

Odontometric characteristics of the European Miocene primates

Cipriani M., Apollaro C., Basso D., Bazzicalupo P., Bertolino M., Bracchi V.A., Bruno F., Costa G., Dominici R., Gallo A., Muzzupappa M., Rosso A., Sanfilippo R., Sciuto F., Vespasiano G. & **Guido A.**

Evidence of not-genetically controlled biomineralizations in coralligenous build-ups (Marzamemi, Sicily, Italy)

Consorti L., **Fabbi S.**, Cipriani A. & Pampaloni M.L.

Mesozoic and Cenozoic carbonate platform bioevents from the CARG Geological Sheet n. 377 "Trasacco"

D'Amico F., Calidonna C.R., Apollaro C., Vespasiano G. & Guido A.

Agents of climate change: a paleontological point of view

Delfino M., Amoruso N., Macaluso L. & Rook L.

I resti di coccodrilli tomistomini della Pietra Leccese (Miocene, Italia meridionale)

De Pirro D., Bartiromo A., Cherin M., Lionello P. & Spina A.

The Cretaceous flora of Salento: preliminary data on the assemblage from Surbo (Lecce, Italy)

Donato G., Sanfilippo R., D'Alpa F., Sciuto F., Bracchi V.A., Basso D. & Rosso A.

Live and dead bryozoans in the coralligenous build-ups of Marzamemi (Ionian Sea)

Granata V. & Collareta A.

New insights on Middle Triassic invertebrate ichnoassociation from the Monti Pisani megaichnosite (northern Apennines)

Guerrieri S., **Santagati P.**, Borrelli M. & Perri E.

Microfacies and biosedimentary processes of Late Pleistocene (MIS 5.1) deposits (Capo Colonna, Southern Italy)

Lambert O., **Collareta A.**, Benites-Palomino A., Merella M., de Muizon C., Bennion R., Urbina M. & Bianucci G.

A flat-snouted sperm whale from the Lower Miocene of the southeastern Pacific (east Pisco Basin, Peru) supports affinities with the southwestern Atlantic cetacean fauna

Logrosán Soriano P., Luján A.H., Nacarino-Meneses C., **Villa A.**, Abella J., Madurell-Malapeira J. & Casanovas-Vilar I.

New fossil remains and histological study of *Diplocynodon ratelii* (Crocodylia: Diplocynodontidae) from the Middle Miocene site of Els Casots (Catalonia)

Lombardi M. & Crippa G.

Analisi paleoecologica dell'associazione a *Venus-Ostrea* del Torrente Arda (Pleistocene Inferiore)

Madurell-Malapeira J., Bartolini-Lucenti S., Costeur L. & Rook L.

Revising the early European record of the dirk-toothed cat *Megantereon*

Martinelli P., Gennari R., Lirer F. & Cascella A.

Paleoclimatic and paleoceanographic changes and their impact on planktic foraminifera in the Tyrrhenian Sea during the last 32 ka

Maruca G., Bruno F., Lagudi A., Barbieri L., Gallo A., Cipriani M. & Guido A.

Technological innovation for the remote 3D study of marine bioconstructions: a project proposal

Minniti G., Reitano A., Di Geronimo I., Rosso A. & Sanfilippo R.

The Pleistocene malacological collection of Catallarga (Sicily) in the Museum of Paleontology (University of Catania)

Moscarella A., **Fabbi S.**, Bindellini G., Carnevale G., Citton P., Consorti L., D'Ambrogi C., Garzarella A., Muraro C., Pampaloni M.L., Prinzi E.P., Radeff G., Romagnoli G., Romano M., Spanò F. & Cipriani A.

Digital investigation of lamniform shark vertebrae from the Scaglia Cinerea – Bisciaro boundary (Miocene, Umbria-Marche basin)

Mulè F., Collareta A. & Farina S.

Preliminary study of two cave bear cubs from the Late Pleistocene vertebrate assemblage of the “Tecchia” of Equi cave (Equi Terme, Massa-Carrara province, Italy)

Peri E., Collareta A., Granata V. & Bianucci G.

A leathery meal: megatoothed shark bite mark on a *Psephophorus* carapace from the Pietra Leccese formation (Miocene, Southern Italy) and its palaeoecological implications

Pieri A., Falk D., Buchwitz M., Schneider J.W. & Ehling B.C.

The Wolferode Quarry: an amazing middle to late Permian tracksite in Central Germany

Piñero P., López-García J.M., Carnevale G., Furió M., Giuntelli P., Luzi E., Macaluso L., Marramà G., Pavia G., Pavia M., Pezzetti C., Rocca M., Villa A. & **Delfino M.**

Moleto: a new latest middle-earliest Late Pleistocene vertebrate site in Northern Italy

Pizzitola V.O. & Martinetto E.

Nuove evidenze di depositi plio-pleistocenici a conchiglie e vegetali fossili nell'alveo del Torrente Cervo: rassegna preliminare

Romano M., Bindellini G., Moscarella A., Manucci F. & O'Connor J.K.

Reimagining *Velociraptor* 100 years after its discovery

Sacco E., Pignatti J.S. & **Sardella R.**

The Achille Tellini historical collection (Museo Universitario di Scienze della Terra, Sapienza Università di Roma)

Sanfilippo R., Donato G., Basso D., Bracchi V.A. & Rosso A.

Biodiversity and distribution pattern of serpulids from Mediterranean Holocene coralligenous build-ups

Santagati P., Perri E., Borrelli M. & Guerrieri S.

MIS 5.5 SST estimation from a macrofossil assemblage: a multi-proxy reconstruction

Tomelleri I. & Zorzin R.

Collezioni museali e valorizzazione del patrimonio paleontologico. Mappare per costruire reti: il caso studio della Val d'Alpone

Vescogni A. & **Guido A.**

A dendrolite/thrombolite carbonate build-up from the Messinian terminal carbonate complex of the Salento Peninsula (Southern Italy)

Vincenzi M., **Bona F.** & Nappi A.

Some considerations about MIS3 marmots (*Marmota marmota*) of north-western Italy with particular regards to those from Caverna Generosa (Centrovallée Intelvi, Como)

Zazzera A., Marsico A., La Perna R., Marino M., Venisti N., De Prezzo G., Bruno Stamerra F., Spisso N., Spada I. & Girone A.

Re-animation of a fossil: bringing back to life the specimens from MUSTE (Museo di Scienze della Terra) of University of Bari with digital technologies

Zoboli D., Masala A. & Pillola G.L.

A new proboscidean tracksite in the Pleistocene of south-western Sardinia (Italy)