



ELSEVIER



## Sommaire / Contents tome 13, 2014

### Avant-propos / Foreword

- Lagerstätten français et fossiles à conservation exceptionnelle  
Sylvain Charbonnier, Didier Néraudeau ..... 349

### Paléontologie générale, systématique et évolution / General palaeontology, systematics and evolution

- *Cryptohelops menaticus* – a new genus and species of the tribe Helopini (Coleoptera: Tenebrionidae) from the Palaeocene of Menat (France)  
Maxim V. Nabozhenko, Alexander G. Kirejtshuk ..... 65
- The Montceau-les-Mines Lagerstätte (Late Carboniferous, France)  
Vincent Perrier, Sylvain Charbonnier ..... 353
- The La Voulte-sur-Rhône Lagerstätte (Middle Jurassic, France)  
Sylvain Charbonnier, Denis Audo, Bruno Caze, Vincent Biot ..... 369
- The lithographic limestones of Cerin (southern Jura Mountains, France). A synthetic approach and environmental interpretation  
Paul Bernier, Georges Barale, Jean-Paul Bouriseau, Eric Buffetaut, Christian Gaillard, Jean-Claude Gall, Sylvie Wenz ..... 383
- A new look at the Late Jurassic Canjuers conservation Lagerstätte (Tithonian, Var, France)  
Karin Peyer, Sylvain Charbonnier, Ronan Allain, Émilie Läng, Renaud Vacant ..... 403
- Palaeontology of the Purbeck-type (Tithonian, Late Jurassic) bonebeds of Chassiron (Oléron Island, western France)  
Romain Vullo, Dominique Abit, Michel Ballèvre, Jean-Paul Billon-Bruyat, Renaud Bourgeois, Éric Buffetaut, Véronique Daviero-Gomez, Géraldine Garcia, Bernard Gomez, Jean-Michel Mazin, Séverin Morel, Didier Néraudeau, Joane Pouech, Jean-Claude Rage, Johann Schnyder, Haiyan Tong ..... 421

- Plant-dominated assemblage and invertebrates from the Lower Cenomanian of Jaunay-Clan, western France  
Xavier Valentin, Bernard Gomez, Véronique Daviero-Gomez, Sylvain Charbonnier, Patrice Ferchaud, Alexandre G. Kirejtshuk, Alexis Licht, Didier Néraudeau, Romain Vullo, Géraldine Garcia ..... 443

- Inclusions of conifers, echinoids, foraminifers and sponges in flints from the Cenomanian of Charente-Maritime (France): Contribution of synchrotron microtomography  
Jean-David Moreau, Didier Néraudeau, Bernard Gomez, Paul Tafforeau, Éric Dépré ..... 455

- Spider web in Late Cretaceous French amber (Vendée): The contribution of 3D image microscopy  
Jean-Paul Saint Martin, Simona Saint Martin, Susanne Bolte, Didier Néraudeau ..... 463

### (Biostratigraphie / Biostratigraphy)

- Integrated biostratigraphy based on planktonic foraminifera and dinoflagellates across the Cretaceous/Paleogene (K/Pg) transition at the Izh section (SW Iran)  
Bijan Beiranvand, Dalila Zaghib-Turki, Ebrahim Ghasemi-Nejad ..... 235

- Cricetodontini from the Calatayud-Daroca Basin (Spain): A taxonomical description and update of their stratigraphical distributions  
Paloma López-Guerrero, Israel García-Paredes, María Ángeles Álvarez-Sierra, Pablo Peláez-Campomanes ..... 647

### (Paléobotanique / Palaeobotany)

- The fern *Stauropteris oldhamia* Binney: New data on branch development and adaptive significance of the hypodermal aerenchyma  
Maryam Farahimanesh, Philippe Gerrienne, Jean Galtier, Cyrille Prestianni ..... 473

**(Micropaléontologie / Micropalaeontology)**

- A first report of *Prolinograptus packhami* Rickards and Wright, 1997 from Baltica, Poland  
**Dagmara Chmielarz, Anna Kozłowska** ..... 139
- A Lower Silurian (Aeronian) radiolarian assemblage from black cherts of the Armorican Massif (France)  
**Martin Tetard, Taniel Danelian, Jean-François Ghienne, Marie-Pierre Dabard** ..... 483

**(Paléontologie des invertébrés / Invertebrate palaeontology)**

- A new lasiosynid beetle from the Middle Jurassic of China with remarks on the systematic position of Lasiosynidae  
**Evgeny V. Yan, Bo Wang, Haichun Zhang** ..... 1
- *Cardiolinka bohémica* (Barrande, 1881) – A first representative of the Late Silurian Bohemian type Bivalvia fauna from the northern Arabian Plate, Southeast Turkey  
**İzzet Hoşgör** ..... 147
- The beetle-like Palaeozoic and Mesozoic roachoids of the so-called “umenocoleoid” lineage (Dictyoptera: Ponopterixidae fam. nov.)  
**André Nel, Jakub Prokop, Philippe Grandcolas, Romain Garrouste, Jean Lapeyrie, Frédéric Legendre, Leonid N. Anisutkin, Alexander G. Kirejtshuk** ..... 545
- Leporids as a potential resource for predators (hominins, mammalian carnivores, raptors): An example of mixed contribution from level III of Teixoneres Cave (MIS 3, Barcelona, Spain)  
**Anna Rufà, Ruth Blasco, Florent Rivals, Jordi Rosell** ..... 665

**(Paléontologie des vertébrés / Vertebrate palaeontology)**

- The Eocene *Juncitarsus* – its phylogenetic position and significance for the evolution and higher-level affinities of flamingos and grebes  
**Gerald Mayr** ..... 9
- A peculiar anseriform (Aves: Anseriformes) from the Miocene of Gargano (Italy)  
**Hanneke Johanna Maria Meijer** ..... 19
- First occurrence of the extinct deer *Haploidoceros* in the Iberian Peninsula in the Upper Pleistocene of the Cova del Rinoceront (Castelldefels, Barcelona)  
**Montserrat Sanz, Joan Daura, Jean-Philip Brugal** ..... 27

- New remains of *Dorcatherium crassum* (Artiodactyla: Tragulidae) from the Early Miocene (MN4) of Els Casots (Subirats, Vallès-Penedès Basin)  
**David M. Alba, Daniel DeMiguel, Jorge Morales, Israel M. Sánchez, Salvador Moyà-Solà** ..... 73
- A strange new chelonoid turtle from the Latest Cretaceous Phosphates of Morocco  
**France de Lapparent de Broin, Nathalie Bardet, Mbarek Amaghazaz, Saïd Meslouh** ..... 87
- *Heterosorex* and Soricidae (Eulipotyphla, Mammalia) of the fissure Petersbuch 28; microevolution as indicator of temporal mixing?  
**Johannes Klietmann, Doris Nagel, Michael Rummel, Lars W. van den Hoek Ostende** ..... 157
- A new species of the turtle *Hylaeochelys* (Eucryptodira) outside its known geographic and stratigraphic ranges of distribution  
**Adán Pérez-García, Francisco Ortega** ..... 183
- Sur l'existence de deux espèces d'*Eremotherium* *E. rusconii* (Schaub, 1935) et *E. laurillardii* (Lund, 1842) dans le Pléistocène supérieur du Brésil intertropical  
**Martine Faure, Claude Guérin, Fabio Parenti** ..... 259
- *Basilotritus* (Cetacea: Pelagiceti) from the Eocene of Nagornoye (Ukraine): New data on anatomy, ontogeny and feeding of early basilosaurids  
**Pavel Gol'din, Evgenij Zvonok, Leonid Rekovets, Aleksandr Kovalchuk, Tatiana Krakhmalnaya** ..... 267
- Taxonomy of subgenus *Temnoclemmys* Bergounioux, 1958 (Testudines: Geoemydidae: Ptychogasterinae) based on new material from the Vallès-Penedès Basin (NE Iberian Peninsula)  
**Àngel H. Luján, Massimo Delfino, Isaac Casanovas-Vilar, David M. Alba** ..... 277
- Reconsidering locomotor habits and life style of the Balearic insular giant rodent *Hypnomys* Bate, 1918 from the allometry of the limb long bones  
**Josep Quintana Cardona, Blanca Moncunill-Solé** ..... 297
- A new kogaionid multituberculate mammal from the Maastrichtian of the Transylvanian Basin, Romania  
**Vlad Aurel Codrea, Alexandru Adrian Solomon, Márton Venczel, Thierry Smith** ..... 489
- Was the Early Eocene proboscidean *Numidotherium koholense* semi-aquatic or terrestrial? Evidence from stable isotopes and bone histology  
**Salamet Mahboubi, Hervé Bocherens, Michael Scheffler, Mouloud Benammi, Jean-Jacques Jaeger** ..... 501

- New giant penguin bones from Antarctica: Systematic and paleobiological significance  
**Carolina Acosta Hospitaleche** ..... 555
  - A biometric analysis of the pelvic acetabulum as an indicator of sex in bovids  
**Ana Belén Galán López, Manuel Domínguez-Rodrigo** .... 561
  - The scimitar-toothed cat *Machairodus aphanistus* (Carnivora: Felidae) in the Vallès-Penedès Basin (NE Iberian Peninsula)  
**Joan Madurell-Malapeira, Josep M. Robles, Isaac Casanovas-Vilar, Juan Abella, Pau Obradó, David M. Alba** ..... 569
  - Further evidence for the presence of holoptychid porolepiforms (Sarcopterygii, Dipnomorpha) from the Frasnian of Colombia  
**Jorge Mondéjar-Fernández, Philippe Janvier** ..... 587
  - New marine mammal faunas (Cetacea and Sirenia) and sea level change in the Samlat Formation, Upper Eocene, near Ad-Dakhla in southwestern Morocco  
**Samir Zouhri, Philip D. Gingerich, Najia Elboudali, Samira Sebti, Abdelmajid Noubhani, Meriem Rahali, Saïd Meslouh** ..... 599
  - Middle to Late Pleistocene herpetofauna from Scladina and Sous-Saint-Paul caves (Namur, Belgium)  
**Hugues-Alexandre Blain, Juan Manuel López-García, Jean-Marie Cordy, Stéphane Pirson, Grégory Abrams, Kévin Di Modica, Dominique Bonjean** ..... 681
  - Revision of the family Propercarnidae (Perciformes, Stromateoidei) with description of a new species from the Oligocene of the Carpathians  
**Tomáš Přikryl, Alexandre F. Bannikov, Ionuț Grădianu, Iwona Kania, Wiesław Krzemiński** ..... 691
- (Mécanismes évolutifs, microevolution / Evolutionary processes and macroevolution)**
- A new look at genome size, evolutionary duration and genetic variation in salamanders  
**John Herrick, Bianca Sclavi** ..... 611
- (Patrons évolutifs, macroévolution / Evolutionary patterns, macroevolution)**
- Theoretical morphology of tetrapod skull networks  
**Borja Esteve-Altava, Diego Rasskin-Gutman** ..... 41
  - The species recognition hypothesis explains exaggerated structures in non-avian dinosaurs better than sexual selection does  
**Kevin Padian, John R. Horner** ..... 97
  - Sexual selection according to Darwin: A response to Padian and Horner's interpretation  
**Benjamin Borkovic, Anthony Russell** ..... 701
  - Darwin's sexual selection: Understanding his ideas in context  
**Kevin Padian, John R. Horner** ..... 709
- Paléontologie humaine et préhistoire / Human palaeontology and prehistory**
- Restauration virtuelle d'Arago 21  
**Gaspard Guipert, Marie-Antoinette de Lumley, Henry de Lumley** ..... 51
  - New evidence of old stone tools from the Mekong terraces, Cambodia  
**Hubert Forestier, Heng Sophady, Simon Puaud, Roland Mourer, Laurence Billault, Marc Philippe, Valéry Zeitoun** ..... 109
  - Le site du Ranc-Pointu n° 2 à Saint-Martin-d'Ardèche : une occupation du Paléolithique moyen ancien dans le Sud-Est de la France  
**Marie-Hélène Moncel, Simon Puaud, Camille Daujeard, Nicolas Lateur, Anne-Sophie Lartigot-Campin, Évelyne Debard, Évelyne Crégut-Bonnoure, Jean-Paul Raynal** ..... 121
  - Évolution de l'exploitation des ressources animales dans la région cantabrique entre 4500 et 2000 cal BC : la grotte de Los Gitanos (Cantabrie, Espagne)  
**Esteban Álvarez-Fernández, Jesús Altuna, Inmaculada Barrera-Mellado, Miriam Cubas, María José Fernández-Gómez, Raquel Fernández, Yves Gruet, Koro Mariezkurrena, Roberto Ontañón** ..... 307
  - Typologie et provenance de l'obsidienne du site néolithique d'A Guaita (NW Cap Corse, Corse, France)  
**François-Xavier Le Bourdonnec, Gérard Poupeau, Françoise Lorenzi, Pierre Machut, Jean Sicurani** ..... 317
  - Test excavations and initial results at the Middle and Upper Paleolithic sites of Gilvaran, Kaldar, Ghamari caves and Gar Arjene Rockshelter, Khorramabad Valley, western Iran  
**Behrouz Bazgir, Marcel Otte, Laxmi Tumung, Andreu Ollé, Sushama G. Deo, Pramod Joglekar, Juan Manuel López-García, Andrea Picin, Davoud Davoudi, Jan van der Made** ..... 511
  - The influence of raw material qualities in the lithic technology of Gran Dolina (Units TD6 and TD10) and Galería (Sierra de Atapuerca, Burgos, Spain): A view from experimental archeology  
**Marcos Terradillos-Bernal, Xosé-Pedro Rodríguez-Álvarez** ..... 527

- Early Humans at the eastern gate of Europe: The discovery and investigation of Oldowan sites in northern Caucasus  
**Hizri A. Amirkhanov, Dmitriy V. Ozherel'ev, Yuri N. Gribchenko, Mikhail V. Sablin, Viktor V. Semenov, Valery Trubikhin** ..... 717
  - Sur un poisson gravé magdalénien de la grotte Margot (Thorigné-en-Charnie, Mayenne)  
**Florian Berrouet, Pierre Citerne, Émilie Guillaud, Romain Pigeaud, Hervé Paitier, avec la collaboration de Pascal Bonic, Marie-Dominique Pinel, Vincent Pommier, Alice Redou** ..... 727
  - Spatial behaviours of Early Oldowan toolmakers in the Shungura Formation (Lower Omo Valley, Ethiopia): Proposal for an integrated approach  
**Tiphaine Maurin, Anne Delagnes, Jean-Renaud Boisserie** ..... 737
- (Paléoanthropologie / Palaeoanthropology)**
- Palaeopathology of the Pleistocene specimen D2600 from Dmanisi (Republic of Georgia)  
**Laura Martín-Francés, María Martínón-Torres, Elena Lacasa-Marquina, Pilar Fernández-Colón, Ana Gracia-Téllez, José María Bermúdez de Castro** ..... 189
  - Trigonid crests expression in Atapuerca-Sima de los Huesos lower molars: Internal and external morphological expression and evolutionary inferences  
**Marina Martínez de Pinillos, María Martínón-Torres, Matthew M. Skinner, Juan Luis Arsuaga, Ana Gracia-Téllez, Ignacio Martínez, Laura Martín-Francés, José María Bermúdez de Castro** .... 205
  - Talonid crests expression at the enamel–dentine junction of hominin lower permanent and deciduous molars  
**María Martínón-Torres, Marina Martínez de Pinillos, Matthew M. Skinner, Laura Martín-Francés, Ana Gracia-Téllez, Ignacio Martínez, Juan Luis Arsuaga, José María Bermúdez de Castro** ..... 223
  - The Xujia Yao 14 Mandibular Ramus and Pleistocene *Homo* Mandibular Variation  
**Xiu-Jie Wu, Erik Trinkaus** ..... 333
  - The Regourdou 1 Neandertal body size  
**Joseph Michael Plavcan, Valentine Meyer, Ashley S. Hammond, Christine Couture, Stéphane Madelaine, Trenton W. Holliday, Bruno Maureille, Carol V. Ward, Erik Trinkaus** ..... 747

**(Archéologie préhistorique / Prehistoric archaeology)**

- Datations SMA et nouveaux regards sur l'archéo-séquence du Rond-du-Barry (Polignac, Haute-Loire)  
**Jean-Paul Raynal, Audrey Lafarge, Delphine Rémy, Vincent Delvigne, Jean-Luc Guadelli, Sandrine Costamagno, Olivier Le Gall, Camille Daujeard, Dominique Vivent, Paul Fernandes, Muriel Le Corre-le Beux, Gérard Vernet, Frédéric Bazile, David Lefèvre** ..... 623

**Histoire des sciences / History of sciences**

- Les dessins originaux de l'« *Histoire des crocodiliens renfermés dans le terrain oolithique* » d'Étienne Geoffroy Saint-Hilaire  
**Arnaud Brignon** ..... 637

**Analyse d'ouvrage / Book review**

- Temps de la Terre, temps de l'Homme, P. De Wever. Albin Michel, Paris (2012). 213 p.  
**Michel Laurin** ..... 343

**Erratum**

- Corrigendum to “The quality of the fossil record of anomodonts (Synapsida, Therapsida)” [C. R. Palevol 12 (7-8) (2013) 495-504; doi:10.1016/j.crpv.2013.07.007]  
**Marcus Walther, Jörg Fröbisch** ..... 61
- Corrigendum to “First occurrence of the extinct deer *Haploidoceros* in the Iberian Peninsula in the Upper Pleistocene of the Cova del Rinoceront (Castelldefels, Barcelona)” [C. R. Palevol 13 (1) (2014) 37–50; doi: 10.1016/j.crpv.2013.06.005]  
**Montserrat Sanz, Joan Daura, Jean-Philip Brugal** ..... 137
- Corrigendum to “Typologie et provenance de l'obsidienne du site néolithique d'A Guaita (NW Cap Corse, Corse, France)” [C. R. Palevol 13 (4) (2014) 317–332]  
**François-Xavier Le Bourdonnec, Gérard Poupeau, Françoise Lorenzi, Pierre Machut, Jean Sicurani** ..... 543