



Estratigrafía y Paleontología

Áreas de conocimiento: Estratigrafía y Paleontología

Director: D. Francisco J. Rodríguez Tovar

Secretario: D. César Viseras Alarcón

Página web: <http://www.ugrestratig.es/>

Profesorado: CU: 8, PTU: 5, PDI Contratado: 2

Tesis leídas

- Depositional control on diagenetically-induced heterogeneity in Triassic red bed sandstones.

Doctoranda: D^a Saturnina Henares Ladrón de Guevara

Director: Dr. D. César Viseras Alarcón

Fecha de lectura: 20 de junio de 2016

- Cristalografía y ultraestructura de capas lamelares cruzadas en el filo mollusca. Inferencias evolutivas.

Doctoranda: D^a Io Almagro Padilla

Director: Dr. D. Antonio G. Checa González

Fecha de lectura: 23 de septiembre de 2016

Grupos de Investigación.

RNM178 EVOLUCION DE LOS MARGENES MESOZOICOS DE IBERIA (EMMI)

- Responsable: FEDERICO OLORIZ SAEZ

RNM190 ANALISIS DE CUENCAS

- Responsable: JUAN CARLOS BRAGA ALARCON

RNM208 DISCONTINUIDADES ESTRATIGRAFICAS

- Responsable: ALBERTO DIEGO PEREZ LOPEZ

Dirección y participación en Proyectos I+D

- 2015 Depósitos silíceos-carbonatados del Cretácico inferior en el Tetis Occidental: estratigrafía integrada y estimaciones de paleoproductividad, Programa Estatal de Fomento de la Investigación, 01/01/- 2015 - 31/12/2018

Investigador/a: COMPANY SEMPERE, MIGUEL

Publicaciones en revistas

- 2016 Artículo: Carbon isotope analysis reveals relatively high abundance of C4 grasses during early-middle Miocene in southwestern Europe., *Palaeogeography, Palaeoclimatology, Palaeoecology*, JIMENEZ MORENO, GONZALO

- 2016 Artículo: Post-obduction carbonate system development in New Caledonia (Népoui, Lower Miocene), *Sedimentary Geology*, 331, , 42-62

BRAGA ALARCON, JUAN CARLOS

- 2016 Artículo: Morphology and evolution of drowned carbonate terraces during the last two interglacial cycles, off Hilo, NE Hawaii, *Marine Geology*, 371, , 57-81

BRAGA ALARCON, JUAN CARLOS

PUGA BERNABÉU, ÁNGEL

- 2016 Artículo: Submarine landslides on the Great Barrier Reef shelf edge and upper slope: A mechanism for generating tsunamis on the north-east Australian coast?, *Marine Geology*, 371, ,

PUGA BERNABÉU, ÁNGEL

- 2016 Artículo: First freshwater coralline alga and the role of local features in a major biome transition, *Scientific Reports*, 6:19642, , 1-12

BRAGA ALARCON, JUAN CARLOS

- 2016 Artículo: Influence of hydrodynamic energy on Holocene reef flat accretion, Great Barrier Reef, *Quaternary Research*, 85, 1, 44-53

BRAGA ALARCON, JUAN CARLOS

- 2016 Artículo: Contourite vs gravity-flow deposits of the Pleistocene Faro Drift (Gulf of Cadiz): Sedimentological and mineralogical approaches, *Marine Geology*, , , -

RODRIGUEZ TOVAR, FRANCISCO J.

- 2016 Artículo: High resolution digital image treatment to color analysis on cores from IODP Expedition 339: Approaching lithologic features and bioturbational influence, *Marine Geology*, , , -

RODRIGUEZ TOVAR, FRANCISCO J.

- 2016 Artículo: Centennial-scale vegetation and North Atlantic Oscillation changes during the Late Holocene in the southern Iberia, *Quaternary Science Reviews*, 143, , 84-95

JIMENEZ MORENO, GONZALO

- 2016 Artículo: Transformation of kyanite to andalusite in the Benamocarra Unit (Betic Cordillera, s. Spain). Kinetics and petrological significance, *European Journal Of Mineralogy (Print)*, 28, 2, 337-

MARTIN ALGARRA, AGUSTIN



- 2015 Artículo: Atlantic extreme wave events during the last four millennia in the Guadalquivir estuary, SW Spain, *Quaternary Research*, 83, , 24-40
JIMENEZ MORENO, GONZALO
PEREZ ASENSIO, JOSE NOEL
- 2015 Artículo: Impact of Late Holocene aridification trend, climate variability and geodynamic control on the environment from a coastal area in SW Spain, *The Holocene: A Major Interdisciplinary Journal Focusing on Recent Environmental Change*, en prensa, , 1-11
JIMENEZ MORENO, GONZALO
PEREZ ASENSIO, JOSE NOEL
- 2015 Artículo: Quantifying the Eocene to Pleistocene topographic evolution of the southwestern Alps, France and Italy, *Earth And Planetary Science Letters (Online)*, 412, , 220-234
JIMENEZ MORENO, GONZALO
- 2015 Artículo: Relict slope rings and talus flatirons in the Colorado Piedmont: Origin, chronology and paleoenvironmental implications, *Geomorphology (Amsterdam)*, in press, , 0-15
JIMENEZ MORENO, GONZALO
- 2015 Artículo: Ichnofabric characterization in cores: a method of digital image treatment, *Annales Societatis Geologorum Poloniae*, 85, , 465-471
RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Artículo: Borings in gneiss boulders in the Miocene (Upper Tortonian) of the Sorbas Basin, SE Spain, *Geological Magazine (Print)*, 152, 2, 287-297
PUGA BERNABÉU, ÁNGEL
RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Artículo: Deep Endichnial Cruziana from the Lower-Middle Ordovician of Spain - A Unique Trace Fossil Record of Trilobitomorph Deep Burrowing Behavior, *Ichnos: An International Journal of Plant and Animal Traces*, 22, 1, 12-18
RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Artículo: Coralline algae from the Miocene Mahakam Delta (East Kalimantan, Southeast Asia), *Palaios*, 30, , 83-93
BRAGA ALARCON, JUAN CARLOS
- 2015 Artículo: A delayed response of the trace fossil community at the Cretaceous-Paleogene boundary in the Botaccione section, Gubbio, Central Italy, *Geobios (Lyon)*, 48, , 137-145
RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Artículo: A diverse patch reef in turbid habitats in the Middle Miocene (East Kalimantan, Indonesia), *Palaios*, 30, 1, 128-149
BRAGA ALARCON, JUAN CARLOS
- 2015 Artículo: Lamellaptychi from the Lower Cretaceous of south-east Spain (Murcia and Jaén provinces), *Neues Jahrbuch für Geologie und Paläontologie. Abhandlungen*, 276, , 335-351
COMPANY SEMPERE, MIGUEL
- 2015 Artículo: How bioturbation obscured the Cretaceous-Palaeogene boundary record, *Terra Nova*, 27, , 225-230
RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Artículo: Astrochronology of the Valanginian-Hauterivian stages (Early Cretaceous): Chronological relationships between the Paraná-Etendeka large igneous province and the Weissert and the Faraoni events, *Global and Planetary Change*, 131, , 158-173
COMPANY SEMPERE, MIGUEL
- 2015 Artículo: Lower Valanginian ammonite biostratigraphy in the Subbetic Domain (Betic Cordillera, southeastern Spain), *Carnets de Geologie*, 15, , 71-88
COMPANY SEMPERE, MIGUEL
- 2015 Artículo: Deep-sea trace fossil and benthic foraminiferal assemblages across glacial Terminations 1, 2 and 4 at the 'Shackleton Site' (IODP Expedition 339, Site U1385), *Global and Planetary Change*, In press, , -
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- 2015 Artículo: An enigmatic kilometer-scale concentration of small mytilids (Late Miocene, Guadalquivir Basin, S Spain), *Palaeogeography, Palaeoclimatology, Palaeoecology*, 436, , 199-
AGUIRRE RODRIGUEZ, JULIO
- 2015 Artículo: Surviving metamorphism: Taphonomy of fossil assemblages in marble and calc-silicate schist, *Palaios*, 30, , 668-679
AGUIRRE RODRIGUEZ, JULIO
- 2015 Artículo: Stratigraphic variation in ichnofabrics at the "Shackleton Site" (IODP Site U1385) on the Iberian Margin: Paleoenvironmental implications, *Marine Geology*, , , -
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- 2015 Artículo: Reworked tsunami deposits by bottom currents: Circumstantial evidences from Late Pleistocene to Early Holocene in the Gulf of Cádiz, *Marine Geology*, , , - RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Artículo: Holocene ¿turn-on¿ and evolution of the Southern Great Barrier Reef: Revisiting reef cores from the Capricorn Bunker Group, *Marine Geology*, 363, , 174-190
BRAGA ALARCON, JUAN CARLOS
- 2015 Artículo: Plio¿Pleistocene palaeogeography of the Llanura Costera del Caribe in eastern Hispaniola (Dominican Republic): Interplay of geomorphic evolution and sedimentation, *Sedimentary Geology*, 325, , 90-105
BRAGA ALARCON, JUAN CARLOS
- 2015 Artículo: Comparison of the Performance of Two Advanced Spectral Methods for the Analysis of Times Series in Paleooceanography, *Journal of Marine Science and Engineering*, 3, , 957-967
RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Artículo: A reference time scale for Site U1385 (Shackleton Site) on the SW Iberian Margin, *Global and Planetary Change*, 133, , 49-64
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- 2015 Artículo: Toarcian ammonitico rosso facies from the South Iberian Paleomargin (Betic Cordillera, southern Spain): paleoenvironmental reconstruction, *Facies*, 61, , -
RIVAS CARRERA, PASCUAL
RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Artículo: Devonian conodont biostratigraphy and lithostratigraphy of the Calabrian-Peloritian Southern Terrane: Evidence from the Serre Massif (southern Italy)., *Stratigraphy*, 12, , 1-21
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- 2015 Artículo: The leaking bucket of a Maldives atoll: Implications for the understanding of carbonate platform drowning, *Marine Geology*, 366, , 16-33
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- 2015 Artículo: Terrestrial biosphere changes over the last 120,000 years and their impact on ocean d13C, *CLIMATE OF THE PAST DISCUSSIONS*, 11, , 1031-1091
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- 2015 Artículo: Early Miocene European loess: a new document of aridity in southern Europe, *GEOLOGICAL SOCIETY OF AMERICA, SPECIAL PAPER*, 128, , 110-121
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- 2015 Artículo: Medieval warming initiated exceptionally large wildfire outbreaks in the Rocky Mountains, *National Academy of Sciences. Proceedings*, 112, , 13261-13266
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- 2015 Artículo: Vegetation and climatic changes during the late Pliocene and early Pleistocene in SW Turkey, *Quaternary Research*, 84, , 448-456
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PUGA BERNABÉU, ÁNGEL
SÁNCHEZ ALMAZO, ISABEL M^o
- 2015 Artículo: Mixed carbonate-siliciclastic sedimentation along the Great Barrier Reef upper slope: a challenge to the reciprocal sedimentation model, *Journal of Sedimentary Research*, 85, , 1019-
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- 2015 Artículo: Re-assessment of the type collections of Maslov¿s species of Hapalidiales (Rhodophyta).



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JOURNAL OF PALAEOLOGY, 30, 2, 189-208
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Libros (con ISBN)

- 2015 El Mesozoico del Prebético de la Sierra de Segura: Universidad de Jaén, - Jaén, España, - 2015 ,
978-84-8439-921-6
RODRIGUEZ TOVAR, FRANCISCO J.

Capítulos de libros (con ISBN)

- 2016 Título Capítulo: Submarine Landslides and Incised Canyons of the Southeast Queensland
Continental Margin, Título Libro: Submarine Mass Movements and Their Consequences: Springer,
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PUGA BERNABÉU, ÁNGEL

- 2015 Título Capítulo: Técnicas de tratamiento de imágenes aplicadas a la caracterización de
icnofábricas en sondeos marinos recientes, Título Libro: Current trends in Paleontology and
Evolution: EJIP - 2015 , , - 2015 , 978-84-606-7282-1
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- 2015 Título Capítulo: Análisis geoquímico e isotópico del material de relleno de trazas fósiles en el
tránsito Cretácico-Paleógeno (K-Pg): recuperación de la biota tras el evento del impacto, Título
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RODRIGUEZ TOVAR, FRANCISCO J.

- 2015 Título Capítulo: Spectral Analysis of Uneven Time Series by Maximum Entropy, Título Libro:
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RODRIGUEZ TOVAR, FRANCISCO J.

- 2015 Título Capítulo: Ocean/atmosphere dynamics at deep-sea environments of the Western Iberian
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- 2015 Título Capítulo: El relleno de las bioturbaciones: una importante vía de información, Título Libro:
XXXI Jornadas Paleontología: Universidad de Jaén. Servicio de Publicaciones, , - 2015 , 978-84-8439-
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RODRIGUEZ TOVAR, FRANCISCO J.

Contribuciones en congresos

- 2015 Comunicación en congreso: Foraminifera and trace fossils characterizing a transgressive-
regressive sequence: the Paleocene Firkanten Formation, Spitsbergen, 31st Geological winter
meeting, 12/01/- 2015 , Stavanger, Noruega, Congreso
RODRIGUEZ TOVAR, FRANCISCO J.

- 2015 Poster en Congreso: Paleoclimatic changes affecting deep-sea environment in the Western
Iberian Margin: the ichnological record as a proxy for the Mediterranean research, - 2015 Aquatic
Science Meeting, 22/02/- 2015 , Granada, España, Congreso
RODRIGUEZ TOVAR, FRANCISCO J.

- 2015 Comunicación en congreso: Ichnofabric approach to assessing past productivity changes: the
Toarcian and the Cenomanian/Turonian events, Insurance Scheme for the European anchovy: The
economic value of environmental information., 22/02/- 2015 , Granada, España, Congreso
RODRIGUEZ TOVAR, FRANCISCO J.

- 2015 Comunicación en congreso: Productivity recovery after the Cretaceous-Paleogene boundary
event, Insurance Scheme for the European anchovy: The economic value of environmental
information., 22/02/- 2015 , Granada, España, Congreso
RODRIGUEZ TOVAR, FRANCISCO J.

- 2015 Comunicación en congreso: Técnicas de tratamiento de imágenes aplicadas a la caracterización
de icnofábricas en sondeos marinos recientes, XIII Encuentro de Jóvenes Investigadores en
Paleontología, 15/04/- 2015 , Cercedilla, Madrid, España, Congreso
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fósiles en el tránsito Cretácico-Paleógeno (K-Pg): recuperación de la biota tras el evento del
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Madrid, España, Congreso
RODRIGUEZ TOVAR, FRANCISCO J.

- 2015 Comunicación en congreso: Palaeoenvironmental changes over the last 1.5 million years on the
Western Iberian Margin based on ichnofabric distribution at the "Shackleton Site", 13th
International Ichnofabric Workshop, 14/05/- 2015 , Kochi, Japón, Congreso
RODRIGUEZ TOVAR, FRANCISCO J.

- 2015 Comunicación en congreso: *Rosselia socialis* from the Ordovician of Asturias (northern Spain) and



- the early evolution of equilibrium behaviour in polychaetes, 13th International Ichnofabric Workshop, 14/05/- 2015 , Kochi, Japón, Congreso
RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Poster en Congreso: Ichnofabrics of *Phycosiphon incertum* in Eocene prodelta deposits of Spitsbergen (Svalbard region): Palaeoenvironmental changes during turbiditic deposition, 13th International Ichnofabric Workshop, 14/05/- 2015 , Kochi, Japón, Congreso
RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Comunicación en congreso: Novel colour characterization of modern marine cores; grain size determination and trace fossils disturbance, 31st IAS Meeting of Sedimentology, 22/06/- 2015 , Cracovia, Polonia, Congreso
RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Poster en Congreso: The first record of Zoophycos in the Lusitanian Basin (Portugal): Addressing generalized paleoenvironmental conditions during the lowermost Toarcian, 31st IAS Meeting of Sedimentology, 22/06/- 2015 , Cracovia, Polonia, Congreso
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- 2015 Poster en Congreso: Lithofacies and microfacies of Toarcian Ammonitico Rosso from the Southiberian Palaeomargin (Betic Cordillera, South Spain): Approaching palaeoenvironmental reconstruction, 31st IAS Meeting of Sedimentology, 22/06/- 2015 , Cracovia, Polonia, Congreso
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- 2015 Poster en Congreso: High-resolution ichnological approach of the Cretaceous-Paleogene boundary deposits in the Agost section, Spain, 31st IAS Meeting of Sedimentology, 22/06/- 2015 , Cracovia, Polonia, Congreso
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- 2015 Comunicación en congreso: New constraints for the Geological Time Scale for astrochronology of the Valanginian-Hauterivian stages (Early Cretaceous) from gamma-ray spectrometry signals, 31st IAS Meeting of Sedimentology, 22/06/- 2015 , Cracovia, POLONIA, Congreso
COMPANY SEMPERE, MIGUEL
- 2015 Comunicación en congreso: Ocean/atmosphere dynamics at deep-sea environments of the Western Iberian Margin; an ichnofabric approach on IODP site U1385, VIII Symposium on the Iberian Atlantic Margin, 21/09/- 2015 , Malaga, Congreso
RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Comunicación en congreso: The record of the Valanginian Weissert episode of environmental change from the Prebetic (Spain): C-isotope stratigraphy and biomarkers, 25th Goldschmidt Conference, 16/08/- 2015 , Praga, Congreso
COMPANY SEMPERE, MIGUEL
- 2015 Comunicación en congreso: Bioestratigrafía del Valanginiense (pro parte) mediante nannofósiles calcáreos y su calibración con respecto a las zonas de ammonites en el Subbético Externo (Cordilera Bética, SE de España), XXXI Jornadas de la Sociedad Española de Paleontología, 07/10/- 2015 , - Baeza (Jaén), España, Congreso
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- 2015 Comunicación en congreso: Análisis icnológico de la Formación Winnipeg (Ordovícico, Saskatchewan, Canadá): aproximación a los cambios evolutivos post-paleozoicos, XXXI Jornadas Paleontología, 07/10/- 2015 , Baeza (Jaén), España, Congreso
RODRIGUEZ TOVAR, FRANCISCO J.
- 2015 Comunicación en congreso: Virtualización de salidas de campo en el entorno de Granada. Itinerarios Geológicos Virtuales, VIRTUAL USATIC - 2015 , UBICUO Y SOCIAL: APRENDIZAJE CON TIC, 22/06/- 2015 , - Zaragoza, España, Congreso
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