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SUPPLEMENTARY ONLINE MATERIAL FOR

A new plesiosaur from the Lower Jurassic of Portugal and the early radiation of Plesiosauroidea

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Supplementary Online Material

SOM 1. List of Plesiosauria of the Iberian Peninsula.

References

SOM 2. Measurements of *Plesiopharos moelensis* gen. et sp. nov. (ML2302) available at http://app.pan.pl/SOM/app66-PuertolasPascual_etal_SOM/measurements.xlsx

SOM 3. Phylogenetic TnT data matrix used in this work available at http://app.pan.pl/SOM/app66-PuertolasPascual_etal_SOM/matrix_data.tnt

SOM 1. Plesiosauria of the Iberian Peninsula.

| Taxon | Material | Age | Country | Locality | Reference |
|---|-----------------------------|----------------------------------|----------|--|--|
| <i>Plesiopharos moelensis</i> gen. et sp. nov. | Partial skeleton | lower Sinemurian | Portugal | Praia da Concha (São Pedro de Moel, Leiria) | This paper |
| <i>Lusonectes sauvagei</i> | Skull and mandible | Toarcian | Portugal | Alhadas (Figueira da Foz, Coimbra) | Smith et al. 2011 |
| cf. Cryptoclididae | Teeth | Kimmeridgian/Tithonian | Portugal | Serra do Bouro (Caldas da Rainha, Leiria) | Castanhinha and Mateus 2007; Smith et al. 2011 |
| cf. Cryptoclididae | Teeth | Kimmeridgian/Tithonian | Portugal | Porto das Barcas (Lourinhã, Lisboa) | Castanhinha and Mateus 2007; Smith et al. 2011 |
| cf. Cryptoclididae | Teeth | Kimmeridgian/Tithonian | Portugal | Praia Azul (Torres Vedras, Lisboa) | Castanhinha and Mateus 2007; Smith et al. 2011 |
| Plesiosauroidea indet. | Tooth | Cretaceous | Portugal | São Pedro do Estoril (Cascais, Lisboa) | unpublished data Puértolas-Pascual et al. |
| Plesiosauroidea indet. | Propodial (and gastroliths) | upper Barremian–upper Aptian | Portugal | Praia da Cresmina (Cascais, Lisboa) | unpublished data Puértolas-Pascual et al. |
| Polycotyliidae indet. | Cervical vertebra | Cenomanian | Portugal | São Pedro de Alcântara (Lisboa) | Reported as <i>Cimoliasaurus</i> by Sauvage 1897-1898; Bardet et al. 2008a |
| Plesiosauroidea indet. | Vertebra | early Hettangian–late Sinemurian | Spain | Villar (Villaviciosa, Asturias) | Ruiz-Omeñaca et al. 2009 |
| Plesiosauria? indet. | Partial skeleton (lost) | early Pliensbachian | Spain | El Puntal and Tazones (Villaviciosa, Asturias) | Schulz 1858; Ruiz-Omeñaca et al. 2007, 2009 |
| Plesiosauroidea indet. | Postcranial skeleton | Pliensbachian | Spain | Santa Mera (Villaviciosa, Asturias) | Ruiz-Omeñaca et al. 2009; Bardet et al. 2008b |
| Plesiosauroidea indet. | Teeth | Kimmeridgian | Spain | Colunga (Asturias) | Ruiz-Omeñaca et al. 2007, 2009 |
| Plesiosauroidea indet. | Teeth | Kimmeridgian | Spain | Ribadesella (Asturias) | Ruiz-Omeñaca et al. 2007, 2009 |
| Plesiosauria indet. | Vertebrae | early Barremian | Spain | Galve and Castellote (Teruel, Aragón) | Ruiz-Omeñaca 2006; Parrilla-Bel and Canudo 2015 |
| Plesiosauria indet. | Vertebrae and teeth | Barremian | Spain | Obón and Josa (Teruel, Aragón) | Parrilla-Bel and Canudo 2015 |
| Plesiosauria indet. | Vertebrae and teeth | Barremian | Spain | Morella (Castellón, Comunidad Valenciana) | Yagüe et al. 2003; Parrilla-Bel et al. 2015; Quesada et al. 2019 |
| Elasmosauridae indet. | Vertebra and tooth | Barremian | Spain | Morella (Castellón, Comunidad Valenciana) | Yagüe et al. 2003; Parrilla-Bel et al. 2015; Quesada et al. 2019 |
| Leptocleididae indet. | Vertebrae and teeth | Barremian | Spain | Morella (Castellón, Comunidad Valenciana) | Quesada et al. 2019 |
| Plesiosauria indet. | Vertebra | Aptian | Spain | Tolodella (Castellón, Comunidad Valenciana) | Santos-Cubedo et al. 2007; Grau et al. 2009; Parrilla-Bel et al. 2015; Quesada et al. 2019 |
| Pliosauridae indet. | Vertebra | late Albian–early Cenomanian | Spain | Javaloyas (Teruel, Aragón) | Royo-Torres and Cobos 2008 |
| Elasmosauridae indet. | Teeth | middle?–late Cenomanian | Spain | Asturias | Vullo et al. 2009 |
| Elasmosauridae indet. | Vertebra and pelvic girdle | late Cenomanian | Spain | Algora (Guadalajara, Castilla-La Mancha) | Bardet et al. 2018 |
| Elasmosauridae indet. | Teeth | late Maastrichtian | Spain | Treviño County (Burgos, Castilla y León) | Bardet et al. 1999a |

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