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SUPPLEMENTARY ONLINE MATERIAL FOR

Ordovician rafinesquinine brachiopods from peri-Gondwana

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Supplementary Online Material

Fossil localities

ITALY: Sardinia. – Sampled localities: Gon 1 ('Sa Siliqua'), small valley west of hill 'Sa Siliqua' north-east of Gonnessa, lower part of Portixeddu Formation; Geographic coordinates 39°16'15"N, 8°28'21"E. Can 3 ('Eucalyptus'), temporary outcrop for plantation of eucalyptus trees about 800 m south-east of the sheep farm 'Ovile Cannamenda', lower part of Portixeddu Formation; Geographic coordinates 39°14'2"N, 8°30'20"E. Por 7 (Punta Pedrona), Western and Southern slopes of Easternmost peak of the Punta Pedrona hill, middle-upper part of the Portixeddu Formation; Geographic coordinates 39°27'25"N, 8°26'22"E. Por 9 ('Buggerru old road'), small outcrop in the vicinity of a house located at Buggerru old mountain road about 2.6 km north-east of Portixeddu village, middle part of Portixeddu Formation; Geographic coordinates 39°26'36"N, 8°26'29"E. VCR/14 ('bunker'), outcrop at the vicinity of a bunker about

900 m east-northeast of Portixeddu village, Portixeddu Formation; Geographic coordinates 39°26'48"N, 8°25'8"E.

FRANCE: Montagne Noire. – Sampled localities: Grand Glauzy hill, between Gabian and Neffiès villages, upper part of Glauzy Formation; Geographic coordinates 43° 32' 13"N, 3° 18' 21"E.

Tranchée Noire, abandoned railway cutting immediately south of the D-13 road between Gabian and Faugères villages, Gabian Formation; Geographic coordinates 43° 31' 20"N, 3° 15' 05"W.

Armorican Massif. – Sampled localities: Ros 1 (Pointe de Raguenez), several fossiliferous points on the foreshore in the Pointe de Raguenez, lower part of Rosan Formation; Geographic coordinates 48°13'41"N, 4°25'59"O. Ros 2 (carrière de Rosan), outcrop at the Lime kiln quarry of the île de Rosan of the Crozon Peninsula, upper part of Rosan Formation; Geographic coordinates 48°14'11"N, 4°25'43"W.

PORTUGAL: Portuguese Central Iberian Zone. – Sampled localities: Badanais, outcrop in the Penha Garcia Syncline about 5 km east of Penha García village, sandstone underlying the mudstone of the Vaca Member of the top of the Louredo Formation; Geographic coordinates 40° 2'37"N, 6°57'43"W.

PSA, new forest track close to the road N-235 between the villages Contenças and Sazes do Lorvão, tuffs of the lower part of Porto de Santa Anna Formation; Geographic coordinates 40°19'29"N, 8°20'24"W. Leira Mâ vineyard, about 500 m north-west Louredo village, tuffs of the lower and middle part of the Porto de Santa Anna Formation; Geographic coordinates 40°21'16"N, 8°22'9"W.

SPAIN: Pyrenees. – Sampled localities: Sant Pere 1, just back to some houses of Sant Pere village near Seo de Urgel, siltstones of the middle-upper part of Cavá Formation; Geographic coordinates 42°21'43"N, 1°28'53"E. Sant Pere 2, eastern slope of a small valley, about 3 km east of Seo de Urgel city, siltstones of the middle-upper part of Cavá Formation; Geographic coordinates 42°21'38"N, 1°29'39"E.

Iberian Chains. – Fombuena 4, Peña del Tormo Section, about 1 km west-northwest of Fombuena village, sandstone and interbedded sandy shale of the Huerva Member of the Fombuena Formation; Geographic coordinates 41° 8'54"N, 1°12'12"W. Fombuena 6, about 2 km south-west of Fombuena village, oolitic ironstone and bryozoan marl of the Peña del Tormo Member, the basal member of the Fombuena Formation; Geographic coordinates 41° 7'57"N, 1°12'8"W. Herrera 1, about 4 km north-west of Herrera de los Navarros village, sandstone and interbedded sandy shale of the Huerva Member of the Fombuena Formation; Geographic coordinates 41°14'10"N, 1° 6'55"W. Luesma 2 (La Rebosilla), labour field about 1.5 km south-west of Luesma village, calcareous sandstone of the Huerva Member of the Fombuena Formation; Geographic coordinates 41° 9'21"N, 1° 9'33"W.

Aladrén 1, about 6 km north-west of Herrera de los Navarros village, calcareous siltstone of the lower part of Cystoid Limestone Formation; Geographic coordinates 41°14'48"N, 1° 8'36"W. Alpartir 1, about 1 km north-west of Alpartir village, calcareous siltstone of the lower part of Cystoid Limestone Formation; Geographic coordinates 41°25'56"N, 1°23'13"W. Herrera 1, about 4 km north-west of Herrera de los Navarros village, calcareous siltstone of the lower part of Cystoid Limestone Formation; Geographic coordinates 41°14'10"N, 1° 6'55"W. Luesma 1, about 600 m

south-west of Luesma village, calcareous siltstone of the lower part of Cystoid Limestone Formation; Geographic coordinates 41° 9' 51"N, 1° 9' 10"W.

Spanish Central Iberian Zone. – Sampled localities: Co 1 (N-420 road section), about 300 m east of the bridge over Jabalón River, fine-grained calcareous sandstone of the top of the 'Bancos Mixtos'; Geographic coordinates 38°53'16"N, 4° 0'54"W.

Jabalón River Section, about 4.5 Km north north-east of Corral de Calatrava village, thin bed of ferruginous sandstone interbedded in the lower part of the "Cantera Shales"; Geographic coordinates 38°53'31"N, 4° 3'35"W.

Cantabrian Zone. – Sampled localities: VPL, about 1200 m south-east of Portilla de Luna village, Portilla de Luna Limestones; Geographic coordinates 42°49'26"N, 5°49'6"W.