Supplementary DATA 1

A new macronarian sauropod from the Upper Jurassic of Portugal

Pedro Mocho,\*,1,2,3,4 RAFAEL Royo-Torres,5 and FRANCISCO Ortega,2,3

1The Dinosaur Institute, Natural History Museum, 900 Exposition Blvd., Los Angeles, California 90007, U.S.A., pmocho@nhm.org;

2Grupo de Biología Evolutiva, Facultad de Ciencias, UNED, C/ Senda del Rey, 9, 28040 Madrid, Spain, fortega@ccia.uned.es

3Laboratório de Paleontologia e Paleoecologia, Sociedade de História Natural, Polígono Industrial do Alto do Ameal, Pav.H02 e H06, 2565-641, Torres Vedras, Portugal;

4Instituto Dom Luiz, Universidade de Lisboa, Campo Grande, 1749-016 Lisbon, Portugal;

5Fundación Conjunto Paleontológico de Teruel-Dinópolis/Museo Aragonés de Paleontología. Av. Sagunto s/n. E-44002 Teruel, Spain, royo@dinopolis.com

\*Corresponding author.

TABLE S1. SHN 181, caudal vertebrae measurements (in cm). \*measure affected by deformation.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Measurement | CdA | CdB | CdC | CdD | CdE | CdF | CdG | CdH |
| Anteroposterior width | 10.2 | 10.8 | 10.1 | 10.5 | 9.8 | 10.8 | 8.6 | 12. 5 |
| Mediolateral width on the anterior articulation | 19.6 | ? | 19 | 18.5 | 16.6 | 14.6 | 17.9 | ? |
| Dorsoventral width on the anterior articulation |  | ? | 18.5 | 18.4 | 17.6 | 17.3 | ? | ? |
| Mediolateral width on the posterior articulation | 16.5\* | 15.7 | ? | ? | 15.7 | 13.9 | 17.5 | 16.9 |
| Dorsoventral width on the posterior articulation | 19.6 | 17.5 | ? | ? | 15.4 | 15.8 | 15.4 | 12.5 |
| Transverse width of the left caudal rib (from the lateral face of the centrum) | ? | ? | 10.2 | ? | 8.2 | 6.5 | ? | ? |
| Transverse width of the right caudal rib (from the lateral face of the centrum) | ? | ? | 8.7 | ? | ? |   | ? | ? |

TABLE S2. SHN 181, chevron measurements (in cm).

|  |  |
| --- | --- |
| Measurement | chevron |
| Total length | 23.6 |
| Mediolateral width of the proximal end | 9.4 |
| Total length of the hemal canal | 7.3 |
| Anteroposterior width of the distal end | 4.7 |
| Mediolateral width of the distal end | 12.6 |
| Hemal canal length/total length | 0.31 |

TABLE S3. SHN 181, pubes measurements (in cm).

|  |  |  |
| --- | --- | --- |
| Measurement | left pubis | right pubis |
| Length from the anteriormost point in the iliac peduncle to distal end | 78.6 | ? |
| Anteroposterior width of proximal plate | ? | ? |
| Length from the posteriormost point in the iliac peduncle to distal end | 79.8 | ? |
| Length from the dorsalmost point in the ischial peduncle to distal end | ? | ? |
| Iliac peduncle mediolateral width | 6.5 | 8 |
| Iliac peduncle anteroposterior width | 16 | ? |
| Ischiatic peduncle mediolateral width | ? | ? |
| Ischiatic peduncle dorsoventral width | ? | ? |
| Obturator foreman maximum diameter | ? | ? |
| Obturator foreman minimum diameter | ? | ? |
| Acetabulum length | ? | ? |
| Anteroposterior width of the distal end | 30.5 | ? |
| Mediolateral width of the distal end | 7.5 | 6.8 |

TABLE S4. SHN 181, ischia measurements (in cm).

|  |  |  |
| --- | --- | --- |
| Measurement | left ischium  | right ischium |
| Length from the anteriormost point in the iliac peduncle to distal end | ? | 60.5 |
| Length from the posteriormost point in the iliac peduncle to distal end | ? | 66.6 |
| Length from the dorsalmost point in the pubic peduncle to distal end | ? | ? |
| Length from the ventralmost point in the pubic peduncle to distal end | ? | ? |
| Mediolateral width of the iliac peduncle  | ? | 4.9 |
| Anteroposterior width of the iliac peduncle  | ? | 10.3 |
| Mediolateral width of pubic peduncle | ? | ? |
| Dorsoventral width of pubic peduncle  | ? | ? |
| Transverse width of the distal end | 7.8 | ? |
| Perpendicular width of the transverse width of the distal end  | 4.1 | 3.5 |
| Maximum length symphysis distal facet | 8.4 | ? |
| Acetabulum length | ? | ? |
| Anteroposterior width of proximal plate | ? | ? |
| Length of the posteriormost point in iliac peduncle to the ventralmost point of the pubic peduncle | ? | ? |
| length of the posteriormost point in iliac peduncle to ventralmost point of the pubic peduncle | ? | ? |
| Length of the anteriormost point in the iliac peduncle to the dorsalmost point in the pubic peduncle | ? | ? |

TABLE S5. SHN 181, femur measurements (in cm).

|  |  |
| --- | --- |
| Measurement | Femur |
| Total length | ? |
| Mediolateral width of the proximal end | ? |
| Mediolateral width of the distal end | 32.5 |
| Mediolateral width of the diaphysis | 19.2 |
| Anteroposterior width of diaphysis | 7.6 |
| Anteroposterior width of the femoral head | 10.3 |

TABLE S6.SHN 181, tibia measurements (in cm). \*measure affected by deformation.

|  |  |
| --- | --- |
| Measurement | tibia |
| Total length | 74.8 |
| Mediolateral width of the proximal end | 9.3 |
| Anteroposterior width of the proximal end | 28.3\* |
| Mediolateral width of the distal end | 17\* |
| Maximum width of the pvp | 15 |
| Maximum width of the aspa | ? |
| Minimum mediolateral width of the diaphysis | 5.1 |
| Minimum anteroposterior width of the diaphysis | 12.4 |

TABLE S7.SHN 181, fibula measurements (in cm).

|  |  |
| --- | --- |
| Measurement | Fibula |
| Total length | 78.6 |
| Mediolateral width of the proximal end | 4.5 |
| Anteroposterior width of the proximal end | 14.9 |
| Mediolateral width of the distal end | 7.7 |
| Anteroposterior width of the distal end | 14.4 |
| Minimum mediolateral width of the diaphysis | 5.1 |
| Minimum anteroposterior width of the diaphysis | 8.1 |
| Dorsoventral width of the tibial articulation | 25.1 |

TABLE S8. SHN 181, astragalus measurements (in cm).

|  |  |
| --- | --- |
| Measurement | astragalus |
| Maximum transverse width | 21.7 |
| Anteroposterior width of ascending process of astragalus | 7.5 |
| Height on the ascending process of astragalus | 10.5 |