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SUPPLEMENTARY ONLINE MATERIAL FOR

Taxonomic, biogeographic and taphonomic reassessment of a large extinct species of *paca* from the Quaternary of Brazil

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Supplementary Online Material

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SOM 1. Figures

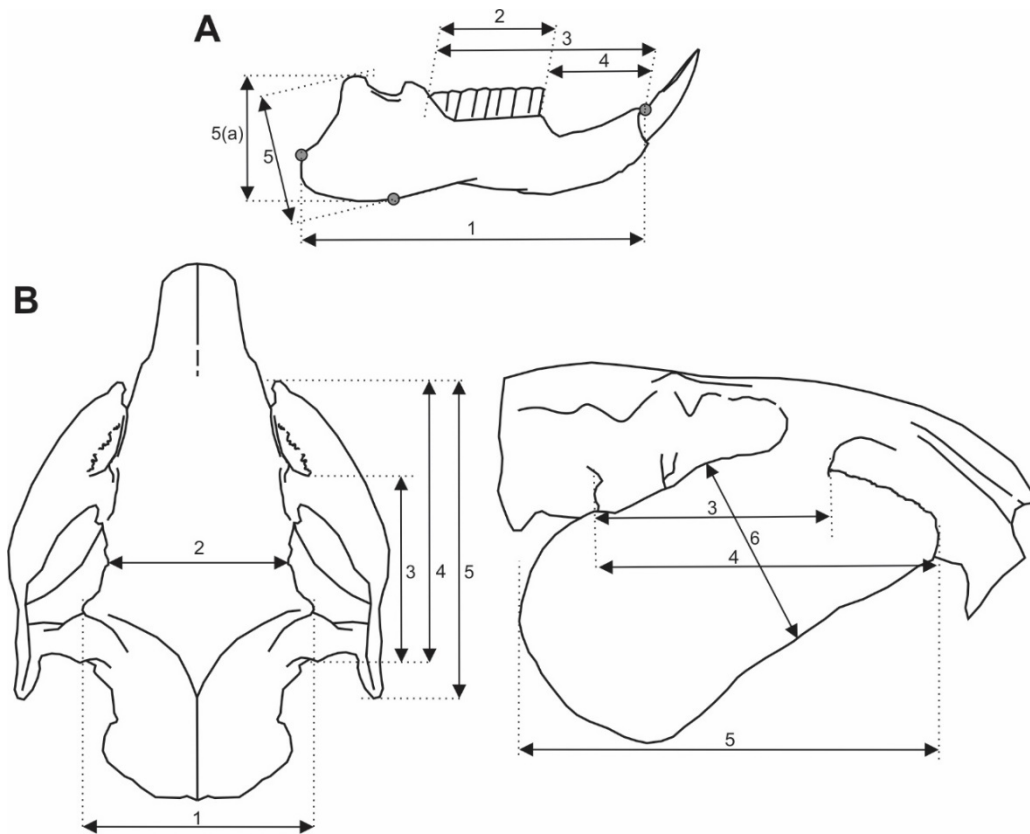


Figure 1. Schematic representation of skull and dentary measurements. **A.** Linear distances taken on dentaries here reported and comparative specimens (following Driesch 1976): 1, maximum length; 2, tooth row length; 3, length between the distal margin of alveoli and base of incisive; 4, diastema length; 5, distance between mandibular condyle and ventral margin of angular process; 5a, vertical branch height. **B.** Skull linear distances taken on *Cuniculus rugiceps* remains from Cuvieri Cave: 1, width between post orbital processes apices; 2, width between dorsal orbits margin; 3, length between the anterior margin of the dorsl zygomatic root of the maxilla and posterior margin of the squamosal process; 4, length between the anterior margin of the ventral zygomatic root of the maxilla and posterior margin of the squamosal process; 5, length of the zygomatic arch; 6, height of zygomatic arch at level of the orbit.

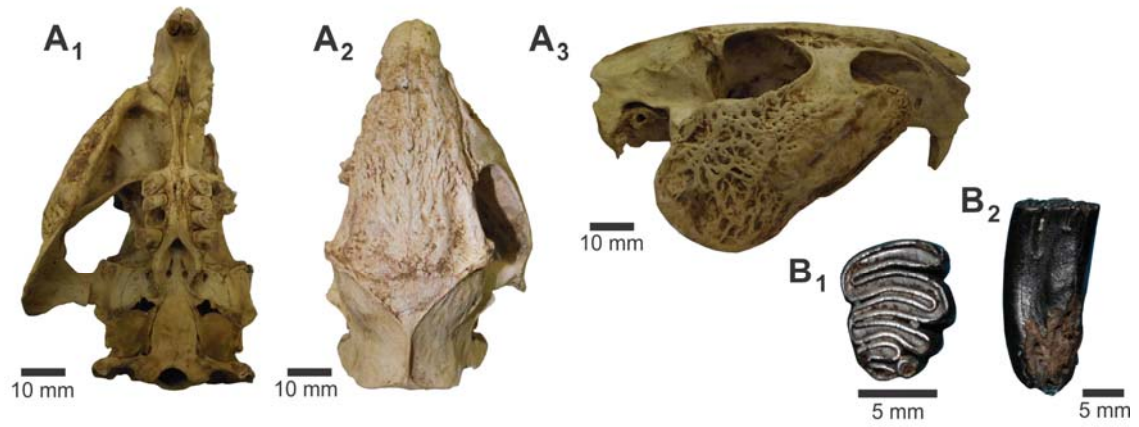


Figure 2. Other specimens of *Cuniculus* from presumed Quaternary deposits from north and southern regions of Brazil. A₁-A₃ skull of *Cuniculus paca* (MCN.P) collected in a cave from the state of Paraná, southern Brazil. B₁-B₂ isolated upper molar of *Cuniculus* sp. (UFAC-CS 064) from Juruá River, State of Acre, western Brazilian Amazonia.

SOM 2. Tables

Table 1. Measurements (in mm) of dentaries here reported and comparative specimens. For explanations of measurements see figure 1

| Material | Side | Provenance | Taxon | Measurements | | | | | |
|---------------------------|-------|----------------------------|----------------|--------------|-------|-------|-------|-------|-------|
| | | | | 1 | 2 | 3 | 4 | 5 | 5a |
| Recent individuals | | | | | | | | | |
| MNRJ-26930 | left | Amazonas, Brazil | <i>C. paca</i> | 94.17 | 31.35 | 62.69 | 31.81 | 35.45 | 34.58 |
| MNRJ-66167 | mean | Amazonas, Brazil | <i>C. paca</i> | 98.03 | 30.98 | 61.47 | 31.45 | 41.67 | 36.02 |
| MNRJ-69148 | left | Amazonas, Brazil | <i>C. paca</i> | 91.52 | 27.15 | 58.62 | 32.60 | 34.55 | 34.15 |
| MNRJ-69206 | mean | Amazonas, Brazil | <i>C. paca</i> | 86.05 | 30.52 | 57.53 | 28.02 | 33.72 | 31.71 |
| MNRJ-69168 | right | Amazonas, Brazil | <i>C. paca</i> | --- | 31.74 | 63.48 | 31.82 | 40.86 | --- |
| MNRJ-74321 | right | Brazil | <i>C. paca</i> | 93.51 | 31.70 | 61.08 | 30.18 | 38.68 | 36.14 |
| MNRJ-20415 | mean | Amapá, Brazil | <i>C. paca</i> | 87.74 | 30.41 | 60.10 | 30.90 | 35.97 | 34.99 |
| MNRJ-20416 | mean | Brazil | <i>C. paca</i> | 99.85 | 31.22 | 63.53 | 34.28 | 39.81 | 38.20 |
| MNRJ-74324 | mean | Mato Grosso do Sul, Brazil | <i>C. paca</i> | 90.56 | 33.91 | 61.38 | 27.72 | 34.96 | 33.59 |
| MNRJ-4872 | mean | Mato Grosso do Sul, Brazil | <i>C. paca</i> | 102.89 | 32.62 | 62.79 | 30.64 | 37.82 | 36.11 |
| MNRJ-53664 | mean | Rondônia, Brazil | <i>C. paca</i> | 95.50 | 30.71 | 62.39 | 32.56 | 42.58 | 40.06 |
| MNRJ-28506 | mean | Rondônia, Brazil | <i>C. paca</i> | 97.55 | 33.82 | 63.03 | 30.26 | 35.06 | 33.43 |
| MNRJ-1379 | mean | Brazil | <i>C. paca</i> | 94.81 | 26.37 | 58.99 | 32.48 | 34.69 | 32.04 |
| MNRJ-1378 | mean | Brazil | <i>C. paca</i> | 91.40 | 30.16 | 59.19 | 30.24 | 37.94 | 35.12 |
| MNRJ-1377 | left | Brazil | <i>C. paca</i> | 95.49 | 30.75 | 63.69 | 33.17 | 39.13 | 36.16 |
| MNRJ-965 | mean | Brazil | <i>C. paca</i> | 88.42 | 29.10 | 55.51 | 27.96 | 35.05 | 34.01 |
| MNRJ-8484 | mean | Brazil | <i>C. paca</i> | 83.75 | 30.62 | 56.87 | 27.32 | 31.45 | 30.67 |
| MNRJ-1682 | mean | Brazil | <i>C. paca</i> | 91.83 | 29.63 | 59.86 | 30.74 | 37.09 | 34.90 |
| MNRJ-60557 | mean | Brazil | <i>C. paca</i> | 84.39 | 28.47 | 53.13 | 26.20 | 35.64 | 32.73 |
| MNRJ-74326 | mean | Brazil | <i>C. paca</i> | 95.40 | 30.52 | 61.63 | 31.67 | 37.77 | 36.42 |
| MNRJ-13516 | mean | Minas Gerais, Brazil | <i>C. paca</i> | 86.47 | 30.16 | 57.38 | 27.37 | 35.11 | 32.06 |
| MNRJ-6112 | mean | Minas Gerais, Brazil | <i>C. paca</i> | 88.06 | 33.04 | 58.31 | 26.36 | 33.80 | 32.02 |
| MNRJ-13515 | mean | Minas Gerais, Brazil | <i>C. paca</i> | 92.04 | 30.12 | 59.48 | 30.29 | 37.72 | 34.15 |
| MNRJ-8476 | mean | Brazil | <i>C. paca</i> | 90.53 | 32.14 | 59.21 | 27.99 | 35.78 | 34.79 |
| MNRJ-8461 | mean | Rio de Janeiro, Brazil | <i>C. paca</i> | 94.05 | 31.73 | 60.52 | 29.25 | 37.95 | 34.41 |
| MNRJ-8458 | mean | Brazil | <i>C. paca</i> | 95.80 | 29.80 | 61.07 | 32.08 | 38.16 | 34.46 |
| MNRJ-8283 | mean | Rio de Janeiro, Brazil | <i>C. paca</i> | 88.82 | 26.38 | 56.17 | 30.34 | 36.17 | 33.60 |
| MNRJ-8449 | mean | Rio de Janeiro, Brazil | <i>C. paca</i> | 94.11 | 29.20 | 59.36 | 30.49 | 35.01 | 32.08 |
| MZUSP-10482 | mean | Amazonas, Brazil | <i>C. paca</i> | 94.41 | 29.88 | 59.42 | 30.80 | 35 | 33.59 |
| MZUSP-9683 | mean | Roraima, Brazil | <i>C. paca</i> | 96.34 | 26.84 | 62.12 | 35.59 | 39.2 | 34.27 |
| MZUSP-10486 | mean | Amazonas, Brazil | <i>C. paca</i> | 88.95 | 28.98 | 57.21 | 28.92 | 32.43 | 30.94 |

| | | | | | | | | | |
|-------------|-------|------------------------|----------------|-------|--------|-------|-------|-------|-------|
| MZUSP-10480 | mean | Amazonas, Brazil | <i>C. paca</i> | 95.72 | 32.98 | 62.49 | 30.4 | 35.50 | 33.81 |
| MZUSP-25462 | mean | Pará, Brazil | <i>C. paca</i> | 92.34 | 29.55 | 59.31 | 30.60 | 35.69 | 32.27 |
| MZUSP-10488 | mean | Amazonas, Brazil | <i>C. paca</i> | 88.52 | 28.61 | 58.06 | 29.52 | 36.06 | 33.24 |
| MZUSP-25464 | mean | Pará, Brazil | <i>C. paca</i> | 97.20 | 27.83 | 60.63 | 33.38 | 36.06 | 34.44 |
| MZUSP-9620 | mean | Pará, Brazil | <i>C. paca</i> | 99.6 | 30.4 | 63.5 | 34.3 | 36.9 | 34.0 |
| MZUSP-21335 | mean | Pará, Brazil | <i>C. paca</i> | 96.89 | 33.00 | 62.61 | 30.78 | 39.53 | 35.5 |
| MZUSP-10485 | mean | Amazonas, Brazil | <i>C. paca</i> | 86.97 | 27.23 | 56.15 | 29.36 | 34.17 | 32.99 |
| MZUSP-22752 | mean | Amazonas, Brazil | <i>C. paca</i> | 87.67 | 31.57 | 57.65 | 27.69 | 35.32 | 35.82 |
| MZUSP-5939 | mean | Minas Gerais, Brazil | <i>C. paca</i> | 88.82 | 32.44 | 57.61 | 25.83 | 35.78 | 33.41 |
| MZUSP-25457 | mean | Pará, Brazil | <i>C. paca</i> | 93.74 | 29.46 | 60.28 | 32.50 | 34.65 | 33.35 |
| MZUSP-32284 | mean | São Paulo, Brazil | <i>C. paca</i> | 90.72 | 31.66 | 59.10 | 28.78 | 34.93 | 33.84 |
| MZUSP-9618 | mean | Pará, Brazil | <i>C. paca</i> | 91.18 | 31.43 | 61.77 | 30.71 | 33.47 | 32.41 |
| MZUSP-5267 | mean | Pará, Brazil | <i>C. paca</i> | 93.50 | 31.73 | 63.27 | 32.17 | 36.24 | 33.64 |
| MZUSP-5263 | mean | Pará, Brazil | <i>C. paca</i> | 90.39 | 30.09 | 57.96 | 28.16 | 34.66 | 33.18 |
| MZUSP-10487 | mean | Amazonas, Brazil | <i>C. paca</i> | 85.29 | 30.78 | 57.71 | 27.76 | 33.80 | 31.47 |
| MZUSP-9616 | right | Pará, Brazil | <i>C. paca</i> | 95.06 | 26.99 | --- | --- | --- | --- |
| MZUSP-9626 | left | Pará, Brazil | <i>C. paca</i> | 95.14 | 31.04 | 65.14 | 34.09 | 36.19 | 33.88 |
| MZUSP-10711 | mean | Pará, Brazil | <i>C. paca</i> | 87.78 | 29.49 | 55.62 | 27.05 | 33.78 | 32.15 |
| MZUSP-21331 | mean | Pará, Brazil | <i>C. paca</i> | 93.40 | 34.71 | 60.85 | 31.17 | 37.54 | 35.41 |
| MZUSP-9624 | mean | Pará, Brazil | <i>C. paca</i> | 88.48 | 29.85 | 59.12 | 29.71 | 32.62 | 31.32 |
| MZUSP-22396 | mean | Brazil | <i>C. paca</i> | 99.01 | 29.61 | 63.40 | 33.81 | 38.08 | 34.67 |
| MZUSP-7054 | mean | São Paulo, Brazil | <i>C. paca</i> | 94.74 | 29.295 | 57.71 | 28.93 | 35.73 | 33.77 |
| MZUSP-2388 | mean | São Paulo, Brazil | <i>C. paca</i> | 97.24 | 30.29 | 61.19 | 31.49 | 39.35 | 37.48 |
| MZUSP-7053 | mean | São Paulo, Brazil | <i>C. paca</i> | 99.43 | 29.84 | 60.46 | 31.97 | 41.31 | 37.61 |
| MZUSP-2328 | mean | São Paulo, Brazil | <i>C. paca</i> | 97.74 | 28.65 | 61.78 | 33.75 | 36.42 | 33.80 |
| MZUSP-6011 | left | Rio de Janeiro, Brazil | <i>C. paca</i> | 91.92 | 30.62 | 58.57 | 28.93 | 35.03 | 32.63 |
| MZUSP-7441 | mean | São Paulo, Brazil | <i>C. paca</i> | 88.03 | 32.56 | 61.18 | 29.36 | 34.53 | 32.89 |
| MZUSP-7432 | mean | São Paulo, Brazil | <i>C. paca</i> | 87.54 | 29.28 | 59.95 | 29.95 | 32.37 | 30.61 |
| MZUSP-5955 | mean | São Paulo, Brazil | <i>C. paca</i> | 97.56 | 28.23 | 62.73 | 33.75 | 34.54 | 36.18 |
| MZUSP-22395 | mean | Brazil | <i>C. paca</i> | 90.15 | 31.18 | 58.59 | 28.19 | 38.44 | 36.57 |
| MZUSP-22393 | mean | Brazil | <i>C. paca</i> | 89.83 | 32.51 | 60.08 | 27.82 | 38.54 | 37.82 |
| MZUSP-2358 | mean | São Paulo, Brazil | <i>C. paca</i> | 92.38 | 28.99 | 59.01 | 31.39 | 35.98 | 34.39 |
| MZUSP-22394 | mean | Brazil | <i>C. paca</i> | 90.64 | 30.39 | 59.10 | 28.85 | 37.21 | 32.82 |
| MZUSP-12044 | mean | Brazil | <i>C. paca</i> | 91.07 | 32.53 | 59.75 | 27.55 | 35.36 | 33.10 |
| MZUSP-5913 | mean | São Paulo, Brazil | <i>C. paca</i> | 89.38 | 31.63 | 58.90 | 28.03 | 37.37 | 35.84 |
| MZUSP-5912 | mean | São Paulo, Brazil | <i>C. paca</i> | 92.37 | 31.81 | 61.34 | 29.87 | 36.46 | 36.31 |
| MZUSP-20413 | mean | Brazil | <i>C. paca</i> | 90.35 | 30.95 | 59.58 | 29.76 | 37.14 | 36.44 |

| | | | | | | | | | |
|-------------|-------|-----------------------------|------------------------|--------|-------|-------|-------|-------|-------|
| FMNH-90068 | left | Cauca, Colombia | <i>C. paca</i> | 97.65 | 32.02 | 64.08 | 33.27 | 37.23 | 38.21 |
| FMNH-34337 | left | Santa Cruz, Bolivia | <i>C. paca</i> | 102.25 | 28.64 | 65.40 | 37.65 | 33.89 | 34.20 |
| FMNH-125076 | left | Napo, Ecuador | <i>C. paca</i> | 92.12 | 30.70 | 58.73 | 29.34 | 35.36 | 35.85 |
| FMNH-92632 | left | Boyaca, Colombia | <i>C. paca</i> | 101.65 | 32.73 | 65.16 | 33.28 | 36.64 | 37.24 |
| USNM-284742 | left | Limon Prov., Costa Rica | <i>C. paca</i> | 101.38 | 31.06 | 65.17 | 34.61 | 35.47 | 37.98 |
| USNM-152133 | right | Costa Rica | <i>C. paca</i> | 109.36 | 31.15 | 68.38 | 38.21 | 38.11 | 42.27 |
| USNM-15965 | right | Costa Rica | <i>C. paca</i> | 96.86 | 28.82 | 60.05 | 31.96 | 31.80 | 33.36 |
| USNM-152132 | right | Costa Rica | <i>C. paca</i> | 103.23 | 30.42 | 67.12 | 38.43 | 38.49 | 40.49 |
| USNM-281832 | right | Rio Tarra, Colombia | <i>C. paca</i> | 107.11 | 29.36 | 66.98 | 39.13 | 39.64 | 42.52 |
| USNM-281830 | right | Rio San Pedro, Colombia | <i>C. paca</i> | 101.62 | 29.56 | 64.05 | 36.47 | 39.52 | 40.75 |
| USNM-281828 | left | El Orinoco, Colombia | <i>C. paca</i> | 94.78 | 29.91 | 61.30 | 32.84 | 33.93 | 35.40 |
| USNM-499702 | left | La Tirana, Colombia | <i>C. paca</i> | 99.33 | 27.41 | 62.99 | 37.10 | 36.14 | 36.97 |
| USNM-499702 | right | La Tirana, Colombia | <i>C. paca</i> | 99.10 | 28.00 | 63.81 | 37.83 | 36.46 | 37.33 |
| USNM-65545 | mean | Vera Cruz, Mexico | <i>C. paca</i> | 97.75 | 28.29 | 62.31 | 35.62 | 34.84 | 34.91 |
| USNM-334518 | left | Bocas del Toro, Panama | <i>C. paca</i> | 91.53 | 29.20 | 57.47 | 29.28 | 32.58 | 33.71 |
| USNM-334512 | mean | Bocas del Toro, Panama | <i>C. paca</i> | 104.67 | 31.11 | 66.57 | 36.68 | 40.21 | 41.11 |
| USNM-374981 | mean | Bolivar, Venezuela | <i>C. paca</i> | 92.25 | 28.41 | 59.43 | 31.67 | 36.68 | 38.20 |
| USNM-296618 | mean | Monaga, Venezuela | <i>C. paca</i> | 99.13 | 30.65 | 63.68 | 34.09 | 36.29 | 38.19 |
| USNM-575672 | mean | Bocas del Toro, Panama | <i>C. paca</i> | 95.99 | 30.12 | 61.38 | 32.11 | 34.17 | 36.63 |
| USNM-575670 | mean | Bocas del Toro, Panama | <i>C. paca</i> | 99.65 | 31.17 | 65.30 | 34.68 | 35.63 | 36.75 |
| USNM-443433 | mean | Zulia, Venezuela | <i>C. paca</i> | 107.78 | 33.25 | 69.31 | 36.86 | 38.27 | 40.34 |
| USNM-442859 | right | Zulia, Venezuela | <i>C. paca</i> | 99.67 | 30.65 | 63.64 | 33.42 | 36.63 | 37.01 |
| USNM-443432 | mean | Apure, Venezuela | <i>C. paca</i> | 90.56 | 32.67 | 61.12 | 29.11 | 34.38 | 37.08 |
| USNM-442857 | mean | Encomendados, Venezuela | <i>C. paca</i> | 99.26 | 31.68 | 66.00 | 35.95 | 32.92 | 36.77 |
| USNM-372892 | mean | Merida, Venezuela | <i>C. paca</i> | 87.75 | 28.37 | 55.73 | 28.20 | 32.93 | 32.83 |
| USNM-372890 | right | Merida, Venezuela | <i>C. paca</i> | 81.84 | 28.25 | 52.66 | 24.85 | 28.41 | 29.86 |
| USNM-172988 | left | Merida, Venezuela | <i>C. paca</i> | 90.47 | 29.95 | 56.09 | 26.87 | 31.98 | 32.74 |
| USNM-372891 | mean | Merida, Venezuela | <i>C. paca</i> | 85.21 | 29.89 | 55.25 | 25.82 | 31.38 | 31.66 |
| UF-6607 | right | Nariva, Trinidad and Tobago | <i>C. paca</i> | 106.43 | 33.80 | 70.93 | 37.44 | --- | --- |
| UF-4643 | mean | Tortuguero, Costa Rica | <i>C. paca</i> | 94.84 | 27.66 | 59.98 | 33.26 | --- | 35.06 |
| UF-1625 | mean | Limon Prov., Costa Rica | <i>C. paca</i> | 114.26 | 31.21 | 71.49 | 40.52 | --- | 42.96 |
| UF-75126 | left | Cusco, Peru | <i>C. taczanowskii</i> | 96.46 | 31.55 | 60.31 | 29.66 | 35.04 | 36.50 |
| UF-75125 | left | Cusco, Peru | <i>C. taczanowskii</i> | 96.52 | 32.04 | 61.20 | 29.70 | 35.87 | 35.92 |
| UF-70808 | right | Cundinamarca, Colombia | <i>C. taczanowskii</i> | 86.04 | 26.35 | 51.97 | 26.98 | 32.51 | 34.01 |
| UF-80974 | left | Piura, Peru | <i>C. taczanowskii</i> | 90.72 | 32.21 | 60.06 | 28.78 | 34.93 | 35.21 |
| UF-70803 | left | Cundinamarca, Colombia | <i>C. taczanowskii</i> | 91.75 | 29.30 | 57.40 | 28.72 | 31.88 | 32.87 |
| UF-70804 | left | Cundinamarca, Colombia | <i>C. taczanowskii</i> | 86.11 | 30.62 | 55.98 | 25.75 | 32.34 | 33.40 |

| | | | | | | | | | | |
|---|-------|---------------------------|-------------------------|--------|-------|-------|-------|-------|-------|--|
| UF-70801 | left | Antioquia, Colombia | <i>C. taczanowskii</i> | 99.19 | 29.56 | 60.77 | 31.81 | 35.91 | 36.61 | |
| AMNH-32021 | right | Parmo de Rosas, Venezuela | <i>C. taczanowskii</i> | 93.17 | 26.53 | 56.53 | 30.57 | 33.48 | 32.67 | |
| AMNH-66727 | left | Dichinga, Ecuador | <i>C. taczanowskii</i> | 89.28 | 32.71 | 59.80 | 27.01 | 32.65 | 34.03 | |
| AMNH-61877 | left | Malleturo, Ecuador | <i>C. taczanowskii</i> | 89.40 | 31.51 | 57.08 | 26.29 | 33.05 | 33.49 | |
| Fossil material | | | | | | | | | | |
| ZMK 1/1845:2029 | | Minas Gerais, Brazil | <i>C. paca major</i> | | | 37.43 | | | | |
| Unnumbered specimen associated to two premaxillae (ZMK1/1845 10669 and ZMK 1/1845 10670) and a portion of zygomatic arch unnumbered | | Minas Gerais, Brazil | <i>C. paca major</i> | | | 39.79 | | | | |
| ZMK 1/1845: 1065 | | Minas Gerais, Brazil | <i>C. paca major</i> | | | | 68.19 | 26.24 | | |
| ZMK 1/1845:11064 | | Minas Gerais, Brazil | <i>C. paca major</i> | | | | | 28.54 | | |
| Unnumbered specimen associated to ZMK 1/1845:11064 | | Minas Gerais, Brazil | <i>C. paca major</i> | | | | | 35.9 | | |
| ZMK 1/1845: 13428 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | | | 31.4 | | | | |
| ZMK 1/1845: 13428 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | | | 34.43 | | 40.09 | | |
| ZMK 1/1845: 13428 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | | | 36.61 | | 34.03 | | |
| ZMK 1/1845: 13428 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | | | 32.19 | | 25.19 | | |
| ZMK 1/1845:3823 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | 106.55 | 32.62 | 65.49 | 32.53 | 48.08 | 40.22 | |
| Unnumbered specimen associated to ZMK 1/1845: 3823 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | 114.49 | 32.82 | 73.78 | 37.07 | 46.46 | 39.8 | |
| Unnumbered specimen associated to ZMK 1/1845: 3823 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | | | 34.58 | 69.87 | 34.26 | | |
| Unnumbered specimen associated to ZMK 1/1845: 3820 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | | | 32.27 | 57.3 | 30.7 | 40.12 | |
| ZMK1/1845:3818 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | | | 33.87 | | | | |
| Unnumbered specimen associated to ZMK 1/1845: 3818 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | | | 32.3 | | | | |
| Unnumbered specimen associated to ZMK 1/1845: 3823 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | | | 34.52 | | | | |
| Unnumbered specimen associated to ZMK 1/1845: 3823 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | | | 33.53 | | | | |
| Unnumbered specimen associated to ZMK 1/1845: 3823 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | | | 33.5 | | | | |
| Unnumbered specimen. associated to ZMK 1/1845: 3823 | | Minas Gerais, Brazil | <i>C. paca laticeps</i> | | | | 27.06 | 35.86 | 32.26 | |

Fossil material here reported

| | | | | | | | | | |
|----------|-------|----------------------|--------------------|--------|-------|-------|-------|-------|-------|
| Fossil 2 | right | Minas Gerais, Brazil | <i>C. rugiceps</i> | | 38.26 | 79.84 | 42.4 | | |
| Fossil 3 | right | Minas Gerais, Brazil | <i>C. rugiceps</i> | | 38.53 | 83.06 | 44.58 | 50.9 | |
| Fossil 4 | right | Minas Gerais, Brazil | <i>C. rugiceps</i> | 118.39 | | 78.58 | | 44.47 | 42.94 |
| Fossil 1 | right | Minas Gerais, Brazil | <i>C. rugiceps</i> | | | | | 51.06 | 49.04 |
| Fossil 5 | left | Minas Gerais, Brazil | <i>C. rugiceps</i> | 140.34 | 38.44 | 83.01 | 45.3 | | |

Table 2. Measurements of the lower check teeth of *Cuniculus rugiceps* from Cuvieri Cave, Minas Gerais, and isolated molars from Toca de Cima dos Pilão, Piauí, Brazil. MDL, mesio-distal length; LLW, linguo-labial width.

| Material | pm | | m1 | | m2 | | m3 | |
|---------------|-------|------|------|------|-------|------|-------|------|
| | MDL | LLW | MDL | LLW | MDL | LLW | MDL | LLW |
| Fossil 1 | --- | --- | 8.92 | 8.78 | 10.5 | 8.98 | 10.26 | 7.44 |
| Fossil 2 | 10.16 | 8.11 | 7.15 | 9.22 | 8.79 | 9.38 | 11.03 | 9.61 |
| Fossil 3 | 8.82 | 6.89 | 7.75 | 8.28 | 9.3 | 8.2 | 10.36 | 7.73 |
| Fossil 4 | --- | --- | 8.92 | 7.81 | 10.54 | 8.56 | 10.19 | 7.35 |
| Fossil 5 | 9.26 | 7.15 | 7.52 | 8.52 | 9.16 | 8.23 | 10.21 | 7.65 |
| Fossil 6 | 9.83 | 6.56 | 9.17 | 7.65 | 10.02 | 8.77 | --- | --- |
| FUMDHAM 19521 | --- | --- | --- | --- | 10.27 | 8.2 | --- | --- |
| FUMDHAM 19036 | --- | --- | --- | --- | --- | --- | 10.20 | 7.49 |

Table 3. Skull measurements of *Cuniculus rugiceps* from Cuvieri Cave, Minas Gerais, Brazil.

| Material | Measurements | | | | | |
|----------|--------------|-------|-------|--------|--------|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| Fossil 8 | 77.71 | 58.59 | | | | |
| Fossil 9 | | | 75.08 | 117.25 | 143.77 | 74.08 |

SOM 3. Estimative of body mass of *Cuniculus rugiceps*

To provide additional information for future studies, we made a preliminary estimation of the body mass of *C. rugiceps* using the equation

$$\text{Log } M = -0.038 + 2.70 \text{ Log UTRW}$$

where M corresponds to the estimated mass of an individual and, UTRW is the upper tooth row length. This equation was estimated based on a large sample of extant rodents, including caviomorphs but not *Cuniculus* (Millien 2008). We measured the UTRW from the *C. rugiceps* syntype ZMK 1/1845:13450 (38.39 mm) and estimated its mass as 16.98 kg, which is higher than the body mass range of extant species of *Cuniculus* (between 6 and 12 kg; Pérez 1992; Nowak 1999). To support the use of this equation to infer *C. rugiceps*' body mass, we used the same equation to estimate the body mass of three specimens of the extant species *C. paca* (all adults) (MCN-M 1051, UTRW: 32.81 mm, Estimated mass: 11.35 kg; MCN-M(D) 081, UTRW 30.04 mm, Estimated mass: 8.93 kg; MCN-M 1052, UTRW: 30.02 mm, Estimated mass: 8.93 kg). We obtained results that are within the body size range of the extant *C. paca* (Pérez 1992; Nowak 1999).

References

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