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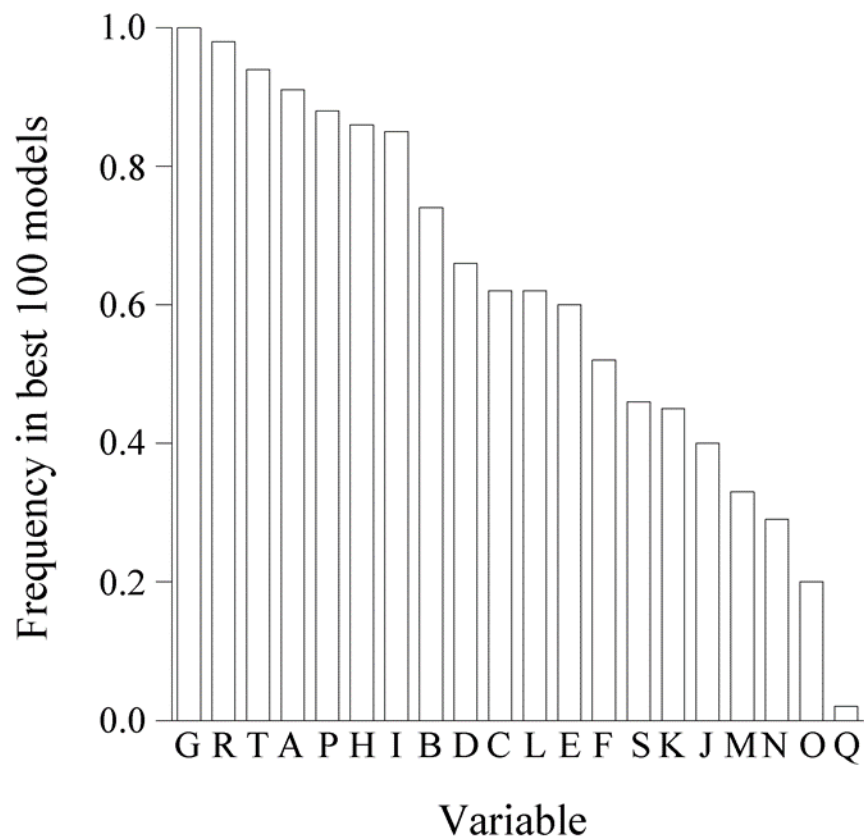


Figure 1: The frequency of the 20 variables (A–T) for the best 100 subset models.

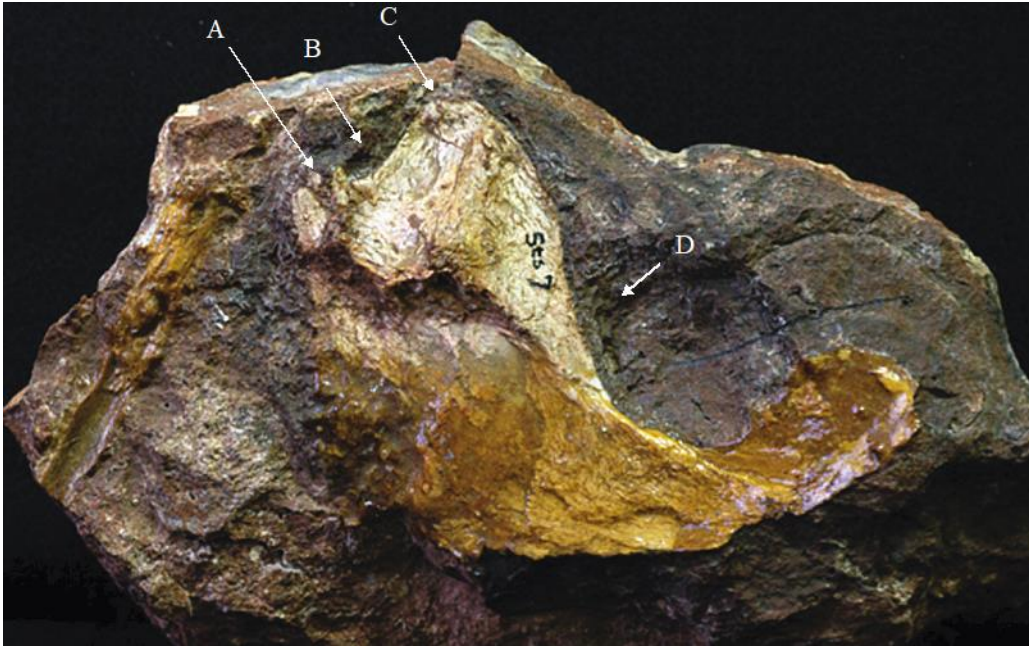


Figure 2: Specimen Sts 7 embedded in the original block of breccia (not shown to scale). A, condylar process; B, deepest point of the mandibular notch; C, coronoid process; D, sloping anterior margin of the ramus (there is barely any preangular notch). Note that the mandibular notch is confined and the coronoid process is broad.

Table 1: Extinct and extant hominoids used in the study

| Specimen | Catalogue number | Provenance | Number of individuals | Age and Sex | Source of data |
|------------------------|----------------------|--------------------------|-----------------------|-------------------|---|
| <i>Au. afarensis</i> | A.L. 288-1 | Afar, Ethiopia | 1 | Mature female | Original specimen |
| <i>Au. afarensis</i> | A.L. 333-43 | Afar, Ethiopia | 1 | Infant | Original specimen |
| <i>Au. afarensis</i> | MAK-VP 1/83 | Maka, Ethiopia | 1 | Mature male | Original specimen |
| <i>Au. robustus</i> | SK 23 | Swartkrans, South Africa | 1 | Mature female (?) | Original specimen |
| <i>Au. robustus</i> | SK 63 | Swartkrans, South Africa | 1 | Infant | Original specimen |
| <i>Au. robustus</i> | SK 34 | Swartkrans, South Africa | 1 | Mature male | Original specimen |
| <i>Ar. ramidus</i> | GWM5sw/P56 | Gona, Ethiopia | 1 | ? | Figure from Semaw et al. ¹ |
| ' <i>Au. sediba</i> ' | MH1 | Malapa, South Africa | 1 | Young female | Cast |
| ' <i>Au. sediba</i> ' | MH2 | Malapa, South Africa | 1 | Mature male | Cast |
| Fossil <i>Homo</i> | Choukoutien I (GI) | China | 1 | ? | Figure from Weidenreich ² and cast |
| Fossil <i>Homo</i> | Choukoutien II (HI) | China | 1 | ? | Figure from Weidenreich ² and cast |
| Fossil <i>Homo</i> | Choukoutien III (BI) | China | 1 | ? | Figure from Weidenreich ² and cast |
| Fossil <i>Homo</i> | KNM-WT 15000 | West Turkana, Kenya | 1 | Young male | Figure from Walker and Leakey ³ and cast |
| Fossil <i>Homo</i> | ATD6-96 | Gran Dolina, Spain | 1 | ? | Original specimen |
| Modern human | N/A | Worldwide sample | 41 | Mixed | Original specimens |
| <i>Pan paniscus</i> | N/A | Africa | 29 | Mixed | Original specimens |
| <i>Pan troglodytes</i> | N/A | Africa | 29 | Mixed | Original specimens |
| <i>Pongo pygmaeus</i> | N/A | Indonesia | 16 | Mixed | Original specimens |

References

1. Semaw S, Simpson SW, Quade J, Renne PR, Butler RF, McIntosh WC, et al. Early Pliocene hominids from Gona, Ethiopia. *Nature*. 2005;433:301–305. <https://doi.org/10.1038/nature03177>
2. Weidenreich F. The mandibles of *Sinanthropus pekinensis*: A comparative study. *Palaeontology*. 1936;Sinica D 7, 1e132.
3. Walker A, Leakey R, editors. The Nariokotome *Homo erectus* skeleton. Berlin: Springer; 1993. <https://doi.org/10.1007/978-3-662-10382-1>