**Supp. file 1.** Measurements in mm of dental specimens of *Ronzotherium*

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*Ronzotherium* sp.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Locality** | **Specimen n°** | **Anatomy** | **Length** | **Width** | **Height** |
| St Martin de Briatexte | NMB-Bx-64a | P2 | 36.7 | 50.6 |  |
|  | NMB-Bx-63 | P4 | 45 | 68.1 |  |
|  | NMB-Bx-11 | M3 | 54.3 | 61.2 |  |

*Ronzotherium velaunum*

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| --- | --- | --- | --- | --- | --- |
| **Locality** | **Specimen n°** | **Anatomy** | **Length** | **Width** | **Height** |
| Ronzon | PUY.2004.6.1765  Type | p2 | (22) | (16.5) |  |
|  | p3 | 32.5 | (21) |  |
|  | p4 | 35 | 26 |  |
|  | m1 | 38.5 | 28 |  |
|  | m2 | 46 | (24) |  |
|  | m3 | 50 | (27.5) |  |
|  | PUY.2004.6.1551.RON | P2 ? | >26 |  |  |
|  | PUY.2004.6.1767.RON | P3 | 30.5 | 42 |  |
|  | TLM.PAL.2010.0.122 | M1 | 43 | 49 |  |
|  | PUY.2004.7.1.RON | d2 | 26.5/27 | (14.5)/14.5 | 16.5/18 |
|  | d3 | 37/(35) | /18.5 | /16 |
|  | d4 | 38/37.5 | 23.5/22 | 23/21 |
|  | m1 | /(44.5) | /29 |  |
|  | PUY.2004.6.1766 | p2 | 27/ | 19.5/ | 22/ |
|  | p3 | 34/31 | 24/24.5 | 20/19 |
|  | p4 | (32)/32 | /27 | 21/ |
|  | m1 | 38 | 30.5/ |  |
|  | m2 | 46 | 32/ |  |
|  | m3 | >45 |  |  |
| Lagny-Thorigny | MNHN.F.OBP37 | P4 | 40 |  |  |
|  | MNHN.F.OBP36 | M1/2 | 52.2 |  |  |
|  | MNHN.F.OBP34 | M2 | 60.5 |  |  |
|  | MNHN.F.OBP33 | M3 |  | 56 |  |
|  | MNHN.F.OBP35 | M2 | 49 |  |  |
| Haag 2 |  | M3 | 43.3 | 53 |  |

*Ronzotherium elongatum*

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| --- | --- | --- | --- | --- | --- | --- |
| **Locality** | **Specimen n°** | **Anatomy** | **Length** | **Width** | **Height** | **Source** |
| Pernes | FSL 9601 | P2 | 29/27.5 | 34/35 | 16/20 |  |
|  | P3 | (33)/ |  |  |  |
|  | P4 | (36)/ |  |  |  |
|  | M1 | 51.5/52 | 50.5/51.5 |  |  |
|  | M2 | (49)/57.5 | 59.5/59.5 |  |  |
|  | M3 | 48.5/48.5 | 56.5/57 |  |  |
| Kleinblauen | NMB-KB1 & KB5 | P3 | 34.25 | 46.75 |  | Becker 2009 |
|  | NMB-KB2, KB6 & KB63a | P4 | 37.3 | 53.6 |  | Becker 2009 |
|  | NMB-KB3, KB25 & KB144a | M1 | 46.8 | 53.2 |  | Becker 2009 |
|  | NMB-KB25 & KB27 | M2 | 54.5 | 62.25 |  | Becker 2009 |
|  | NMB-KB8, KB25 & KB27 | M3 | 47.5 | 61.7 |  | Becker 2009 |
|  | NMB-KB13 | m3 | 52 | 31.5 |  | Becker 2009 |

*Ronzotherium romani*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Locality** | **Specimen n°** | **Anatomy** | **Length** | **Width** | **Height** | **Source** |
| Ferté-Alais | MNHN.F.OBP55 | P2 | >29.7 | 37.5 |  |  |
|  | MNHN.F.OBP56 | P4/3 | 37.3 | 50.4 |  |  |
|  | MNHN.F.OBP59 | M1 | 47.9 | 52.8 | 36.5 |  |
|  | MNHN.F.OBP61 | M2 | (50) | (54) |  |  |
|  | MNHN.F.OBP58 | M2 | >43 | 60.3 |  |  |
|  | MNHN.F.OBP60 | M2 | 52.7 | 53.7 |  |  |
|  | MNHN.F.OBP62 | M3 | 47.4 | 54.5 |  |  |
|  | MNHN.F.OBP86 | d1 | 15 | 8 | 11 |  |
|  | MNHN.F.OBP65 | p2 | 25 | 15.7 |  |  |
|  | MNHN.F.OBP66 | p3 | 34 | 24.6 |  |  |
|  | MNHN.F.OBP67 | p3 | 32.3 | 25 |  |  |
|  | MNHN.F.OBP68 | p4 | 37 | 26.6 | 32.5 |  |
|  | MNHN.F.OBP69 | p4 | 35.1 | 25.6 | 28 |  |
|  | MNHN.F.OBP75 | m ? |  | 30 |  |  |
|  | MNHN.F.OBP71 | m1? | 46.4 | 29 |  |  |
|  | MNHN.F.OBP74 | m1/2 | 49.5 | 31.4 |  |  |
|  | MNHN.F.OBP76 | m1/2 | 48.8 | 32.5 | 25 |  |
|  | MNHN.F.OBP78 | m1/2 | 49.3 | 29.9 |  |  |
|  | MNHN.F.OBP70 | m1/2 |  | 31.5 |  |  |
|  | MNHN.F.OBP77 | m3? | 55 | 33.1 |  |  |
|  | MNHN.F.OBP73 | m3? | 50.8 | 31.6 |  |  |
|  | MNHN.F.OBP72 | m3? | 49 | 30 | 31 |  |
|  | MNHN.F.OBP79 | m3? | 47.8 | 30.9 |  |  |
| Bénissons-Dieu | FSL-183v | d1 | 17.8 | 8.6 |  |  |
|  | d3 | 31.6 | 16.9 |  |  |
|  | d4 | 28.1 | 17.8 |  |  |
| Itteville | MNHN.F.OBP.195 | D2 | >27.7 | 30.3 |  |  |
|  | MNHN.F.OBP.196 | D3 | 37.8 | 39.3 |  |  |
|  | MNHN.F.OBP.198 | D4 | 42.6 | 44.2 | 26.4 |  |
|  | MNHN.F.OBP.199 | P2 |  | 39.6 |  |  |
|  | MNHN.F.OBP.200 | P3 | 32.7 | 42.1 |  |  |
|  | MNHN.F.OBP.210 | M3 | 44 |  |  |  |
|  | MNHN.F.OBP.192 | m1 | 40 | 30.4 |  |  |
|  | m2 | 44.3 | 30.7 |  |  |
|  | m3 | 43.9 | 28.5 |  |  |
|  | MNHN.F.OBP.194 | p2 | 25.2 |  |  |  |
| Poillat | MJSN-POI-007-3219 | P1 | 25.6 | 23 |  |  |
|  | P2 | 29.2 | 37.8 |  |  |
|  | P3 | 32.1 | 50 |  |  |
|  | P4 | 32.2 | 49.4 |  |  |
|  | M1 | 44.8 | 53.5 |  |  |
|  | M2 | 50 | 60.1 |  |  |
|  | M3 | 40.1 | 57.8 |  |  |
|  | MJSN-POI-007-346 | P4 | 34.3 | 49.3 |  |  |
|  | MJSN-POI-007-174 | d1 | 13 | 9.2 |  |  |
|  | d2 | 24.2 | 14.2 |  |  |
|  | d3 | 33.4 | 20.3 |  |  |
|  | d4 | 33.6 | 24.7 |  |  |
|  | m1 | 39.1 | 29.2 |  |  |
|  | m2 | >42.5 |  |  |  |
|  | MJSN-POI-007-211 | p4 | 31.3 | 26.5 |  |  |
| Gaimersheim |  |  |  |  |  | see Heissig 1969 |
| « Marseille » |  |  |  |  |  | See Ménouret & Guérin 2009 |
| Rickenbach | NMB-UM971 | D3/4 | 35.65 | 38.8 |  |  |
|  | NMB-Ri24 | P2 | 31 | 42.2 |  |  |
|  | NMO-H9/13 | P4 | 35.98 | 52.19 |  |  |
|  | NMB-UM1840 | P4 | 38.7 | 50.8 |  |  |
|  | M1 | 49.5 | 53.2 |  |  |
|  | NMB-UM972 | M1 | 49 |  |  |  |
|  | NMO-K11/250 | M1 | 48.72 | 53.48 |  |  |
|  | NMO-I12/13 | M1 | 47.37 | 53.49 |  |  |
|  | NMO-I12/24 | M2 | 52.13 | 59.45 |  |  |
|  | NMB-Ri27 | M2 | 54 | 57.7 |  |  |
|  | SMNS | M2 | (55.1) | (58.4) |  |  |
|  | M3 | 44.3 | 55.3 | 36.4 |  |
|  | NMB-UM3832 | p2 | 23.35/24 | 15.7/16.85 | 22.2/24.3 |  |
|  | p3 | 30.5/30.3 | 18.9/20.6 | 26/27.4 |  |
|  | p4 | 30.75/32.45 | 24.5/24.1 |  |  |
|  | m1 | 39.5/39.2 | 29.6/30.15 |  |  |
|  | m2 | 49.5/46.1 | 32.4/31.1 |  |  |
|  | m3 | 52.7/50.5 | 34.25/32.3 |  |  |
|  | NMB-H.R.2 | p3 | >25 | 21.8 | >22 |  |
|  | NMO-L6/25 | p4 | 34.3 | 23.8 | 31.5 |  |
|  | NMB-UM806 | m1 | 41.4 | 29.5 |  |  |

*Ronzotherium heissigi*

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| **Locality** | **Specimen n°** | **Anatomy** | **Length** | **Width** | **Height** | **Source** |
| Vendèze | MNHN.F.LIM181 | P2 | 26.5/29 | 34/35 |  | Heissig 1969 |
|  | P3 | 30.5/30.5 | 47.5/47 |  | Heissig 1969 |
|  | P4 | 34/33.5 | 55/57.5 |  | Heissig 1969 |
|  | M1 | 45/45.5 | 58/59.5 |  | Heissig 1969 |
|  | M2 | 50.5/50 | 64/64.5 |  | Heissig 1969 |
|  | M3 | 47/47 | 58.5/64.5 |  | Heissig 1969 |
|  | p2 | 25.5 | 15 |  | Heissig 1969 |
|  | p3 | 28/28.5 | 20.5/20.5 |  | Heissig 1969 |
|  | p4 | 35/36 | 28/28 |  | Heissig 1969 |
|  | m1 | (42) | 34.5 |  | Heissig 1969 |
|  | m2 | 49.5/47.5 | 35/35 |  | Heissig 1969 |
|  | m3 | 48/48.5 | 33/34.5 |  | Heissig 1969 |
| Bumbach | NMB-UM-463 | P1 |  | 21 |  |  |
|  | NMB–UM-126a | P2 | 29 | 38.5 |  |  |
|  | NMBE–5035821 | P2 | 30.5 | 38 |  |  |
|  | NMBE–5035822 | P3 | 37 | 45 |  |  |
|  | MGL–4264 | P3 | 33 | 47.5 |  |  |
|  | MGL–5265 | P4 | (32) | 51 |  |  |
|  | MGL–5266 | P4 | 38 | 55.0 |  |  |
|  | NMBE–5035823 | M2 | 57 | 58 |  |  |
|  | NMB-UM-6132 | p2 | 23.6/ | 16/ |  |  |
|  | p3 | /31.8 | /22 |  |  |
|  | p4 | /36.6 | /27.1 |  |  |
|  | m1 | /41.5 | /29.7 |  |  |
|  | m2 | 52.2/52.2 | 33/32.7 |  |  |
|  | m3 | 56.6/55 | 33.5/31.3 |  |  |
|  | MGL–5275 | d2 | (20) | 15.5 |  |  |
|  | NMB–UM-13 | d4 | 41 | 24.5 | 24.5 |  |
|  | NMBE–5035824 | p2 | (24.5) | 16 |  |  |
|  | MGL–5274 | p3 | 34 | 23.5 |  |  |
|  | NMBE–5035825 | p3 | 33.5 | 22.5 |  |  |
|  | p4 | 37.5 | 26.5 |  |  |
|  | NMBE–5035826 | p4 | 37 | 26.5 |  |  |
|  | NMBE–5035827 | p4 | 39 | 28 |  |  |
|  | NMB–UM-6133 | p4 | 37 | 28.5 |  |  |
|  | NMB–UM-806 | m1 | 42 | 31.5 |  |  |
|  | NMBE–5035828 | m1 | 42.5 | 32.5 | 34.5 |  |
|  | NMB–6278 | m2 |  | 34.5 |  |  |
|  | NMBE–5035829 | m2 |  | 32.5 |  |  |
|  | NMBE–5035830 | m2 | 48 | 29 | 37.5 |  |
|  | NMBE–5035831 | m2 | 51 | 31.5 |  |  |
|  | NMBE–5035832 | m3 |  | 30 |  |  |

*Ronzotherium filholi*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Locality** | **Specimen n°** | **Anatomy** | **Length** | **Width** | **Height** |
| Quercy | MNHN.F.QU7232  Type | P2 | 27.6/26.9 | 33.9/33.9 |  |
|  | P3 | 29/29.1 | 40/39.5 |  |
|  | P4 | 35.1/34.7 | 44.5/46.3 | 29.1/29.8 |
|  | M1 | 44.9/43.7 | 42.6/43.1 |  |
|  | M2 | 51.4/50.9 | 50.6/49.1 |  |
|  | M3 | 43.8/43.9 | 48.4/48.8 | 32.6/34.2 |
|  | MNHN.F.QU7202  « Cotype » | p3 | 30.6 | 24.7 | 27.6 |
|  | p4 | 34.8 | 26.4 | 29.7 |
|  | m1 | 39 | 28.4 |  |
|  | m2 | 46.1 | 30.8 | 29.4 |
|  | m3 | 47.1 | 28.5 | 31.4 |
|  | MNHN.F.QU7201  « Cotype » | p4 | 35.5 | 27.3 | 30.1 |
|  | m1 | 39.5 | 28 |  |
|  | m2 | 47.8 | 30.7 | 26.7 |
|  | m3 | 48.1 | 28.5 | 31.5 |
|  | MNHN.F.QU16422 | P1 | 23.6 | ? |  |
|  | MNHN.F.QU16445 | P1 | 24.5 | 23.5 |  |
|  | P2 | 28.8 | 37.5 |  |
|  | MNHN.F.QU17164 | P2 | 29.4 | 41 |  |
|  | MNHN.F.QU17165 | P2 | 27 | 37.6 |  |
|  | MNHN.F.QU16439 | P2 | 30.2 | 35.5 |  |
|  | MNHN.F.QU16438 | P2 | 32 | 38.5 |  |
|  | MNHN.F.QU16436 | P2 | 28.7 | 36.2 |  |
|  | MNHN.F.QU16574 | P2 | 25.9 | 34.6 |  |
|  | MNHN.F.QU17166 | P2 | 26.5 | 32.7 |  |
|  | MNHN.F.QU17161 | P3 | 29 | 40.7 |  |
|  | 2003-1 | P3 | 30 | 41.6 |  |
|  | MNHN.F.QU7213 | P3 | 29.3 | 40.4 |  |
|  | MNHN.F.QU17169 | P3/4 | 33.2 | 46.1 |  |
|  | MNHN.F.QU17170 | P3/4 | 37.7 | 51.1 |  |
|  | MNHN.F.QU17160 | P3/4 | 30.6 | ? |  |
|  | MNHN.F.QU17163 | P3/4 | 32.1 | 44.8 |  |
|  | MNHN.F.QU17162 | P3/4 | 33.4 | 47.4 |  |
|  | MNHN.F.QU17168 | P3/4 | 34.4 | ? |  |
|  | MNHN.F.QU17167 | P3/4 | 32.1 | ? |  |
|  | MNHN.F.QU16442 | P3/4 | 33 | 44.7 |  |
|  | MNHN.F.QU16441 | P3/4 | 34.2 | 50.1 |  |
|  | MNHN.F.QU16437 | P3/4 | 31.6 | 44.1 |  |
|  | MNHN.F.QU16454 | P3/4 | 33.2 | 46.5 |  |
|  | MNHN.F.QU7248 | P3? | 35.6 | 44.1 |  |
|  | MNHN.F.QU7214 | P4 | 30 | 44.5 |  |
|  | MNHN.F.QU16447 | M | 53.3 | 53.3 |  |
|  | MNHN.F.QU16446 | M | 51.8 | 56.1 |  |
|  | MNHN.F.QU17177 | M | 45.7 | 48.5 |  |
|  | MNHN.F.QU17178 | M1/2 | 57.3 | 56.8 |  |
|  | MNHN.F.QU17184 | M2 | 51 | 61 |  |
|  | M3 | 49.5 | 57.8 |  |
|  | MNHN.F.QU7245 | M2 | 44.5 | 49.5 |  |
|  | M3 | 41.2 | 47.5 |  |
|  | MNHN.F.QU17179 | M3 | 45.7 | 48 |  |
|  | MNHN.F.QU16448 | M3 | 49.5 | 56.5 |  |
|  | MNHN.F.QU16404 | m2 | 44.2 | 32.2 |  |
|  | m3 | 45.2 | 32.5 |  |
|  | MNHN.F.QU16405 | m1 | 36.4 | 26.4 |  |
|  | m2 | 42.5 | 28.5 |  |
|  | m3 | 44.5 | 27.7 |  |
|  | MNHN.F.QU17193 | m1 | 42.6 | 32.2 |  |
|  | m2 | 49.9 | 32.1 |  |
|  | m3 | 47.7 | 32.9 |  |
|  | MNHN.F.QU17172 | p2 | 27 | 18.2 |  |
|  | MNHN.F.QU16425 | p2 | 26.6 | 17.2 |  |
|  | MNHN.F.QU16427 | p3/4 | 32.8 | 26.3 |  |
|  | MNHN.F.QU16428 | p3/4 | 29.4 | 22 |  |
|  | MNHN.F.QU16417 | p3/4 | 31.5 | 23.7 |  |
|  | MNHN.F.QU17176 | p or m | 38 | 31 |  |
|  | MNHN.F.QU17173 | p or m | 38 | 29.7 |  |
|  | MNHN.F.QU17174 | p or m | 34.5 | 29.6 |  |
|  | MNHN.F.QU16409 | m | 48.5 | 30.3 |  |
|  | MNHN.F.QU16407 | m | 55.8 | 41 |  |
|  | MNHN.F.QU17175 | m | 36.4 | 25.6 |  |
|  | 2003-1 | m | 39.5 | 27.1 |  |
|  | MNHN.F.QU7250 | m | 50.7 | 31.3 |  |
|  | MNHN.F.QU16416 | m | 51 | 31.1 |  |
|  | MNHN.F.QU16415 | m? | 37.8 | 23.6 |  |
|  | MNHN.F.QU16406 | m2? | 45.3 | 32.5 |  |
| Möhren 4 | BSPG-1966-XXXIII-47 | M1 | >41.8 | >48.5 |  |
| Möhren 7 | BSPG-1969-XXIV-151 | P1 | 21.8 |  |  |
|  | BSPG-1969-XXIV-150 | P2 | 28.2 | 37 | 21.2 |
|  | BSPG-1969-XXIV-151 | p3 | 31.5 |  |  |
|  | BSPG-1969-XXIV-71 | p4 |  | 24.4 |  |
|  | BSPG-1969-XXIV-152 | m1 |  | 27.7 |  |
| Grafenmühle 18 | BSPG-1989-I | P2 | 27.7 | 37.5 | 23.3 |
| Bournoncle | MNHN.LIM5 | p2 | 24.2 | 18 | 27 |
|  | p3 | 28.9 | 22.7 | 29.3 |
|  | p4 | 33.4 | 25.6 | 30.8 |
|  | m1 | 39.3 | 25.6 |  |
|  | m2 | 43.6 | 28.9 | 28.5 |