**Supplementary Table 1.** Results on bone preservation for *Hipparion* and *Equus* metapodia from Turkey. General histological index considered criteria outlined in Hollund et al. (2012), MFD in Hackett (1981) and Jans (2008), microcracks in Pfretzschner (2000, 2004), birefringence in Jans (2005), and inclusions and infiltrations in Garland (1989) and Jans et al. (2002).

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| Specimen | Genus | Locality | Epoch (MN) | General histological index (GHI) | | | | | | Microscopic focal destruction (MFD) | | Microcracks | Birefringence | Inclusions | Infiltrations |
| 0 | 1 | 2 | 3 | 4 | 5 | Wedl tunnels | Non-Wedl tunnels |
| CG-1 | *Hipparion* | Çanakale-Gürpınar | Late Miocene (MN11-12) |  | X |  |  |  |  | - | X | - | 1 | Mineral | Red-brown |
| CG-2 |  | X |  |  |  |  | - | X | - | 0.5 | Mineral | - |
| CG-3 | X |  |  |  |  |  | - | X | - | 0.5 | Mineral | - |
| IKE-1 | İzmir-Karaburun |  | X |  |  |  |  | - | X | - | 1 | - | Red-brown |
| KB-1 | Kütahya-Bayat |  | X |  |  |  |  | - | X | - | 0.5 | Mineral | Red-brown |
| UEK-1 | Uşak-Kemiklitepe 2 |  |  |  |  |  | X | - | - | X | 1 | Mineral | Red-brown |
| CY-1 | Çankırı-Yeniköy | X |  |  |  |  |  | - | X | - | 0 | Mineral | Red-brown |
| KK-1 | Kırşehir-Kaman | Late Miocene (MN12) |  |  | X |  |  |  | X | - | - | 1 | Mineral | Red-brown |
| MYSA-1 | Muğla-Yatağan-Salihpaşalar 1 |  |  | X |  |  |  | - | X | - | 0.5 | Mineral | Red-brown |
| MYSE-1 | Muğla-Yatağan-Serefköy | X |  |  |  |  |  | - | X | - | 0 | Mineral | Red-brown |
| MYSE-2 | X |  |  |  |  |  | - | X | - | 0.5 | Mineral | Red-brown |
| MD-7 | Manisa-Düzpınar | Miocene-Pliocene (MN13-14) |  |  |  |  |  | X | - | - | - | 1 | Mineral | Red-brown |
| TA-1 | *Equus* | Manisa-Aşağıçobanisa | Early Pleistocene (MN17) |  | X |  |  |  |  | - | X | - | 0.5 | Mineral | Red-brown |
| P-1 | Denizli-Pamukkale | Middle Pleistocene (MN17-18) |  |  |  |  | X |  | - | - | X | 1 | Mineral | Red-brown |