**APPENDIX S2.** Calibration points used in this study.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Calibrated node** | **Fossil name** | **Organ** | **Country** | **Period/Epoch** | **Age****(Ma)** | **Reference** | **Comment** |
| Stem Malvaceae | *Bombacoxylon langstoni* Wheeler & Lehman  | Wood | USA | Late Cretaceous (Campanian) | 84–74 | Wheeler and Lehman, 2000 | Assigned to stem Malvaceae by Hernández-Gutiérrez and Magallón, 2019  |
| Stem *Sterculia* (crown Sterculiodeae) | *Sterculia patagonica* Berry*; Sterculia washburnii* Berry | Leaves | Argentina | Late Cretaceous (Maastrichtian) | 72–66 | Berry, 1938; Dutra and Batten, 2000 | Assigned to stem Sterculioideae by Hernández-Gutiérrez and Magallón, 2019 |
| Stem Tilioideae | *Tilia* sp*.* | Pollen | Canada  | Late Cretaceous (Maastrichtian) | 72–66 | Rouse et al., 1970 | Assigned to stem Tilioideae by Hernández-Gutiérrez and Magallón, 2019 |
| Stem Grewioideae | *Grewinum canalisum* (Bande & Srivastava) Srivastava & Guleria | Wood | India | Late Cretaceous-Early Paleocene  | 67–64 | Wheeler et al., 2017 | This study |
| Stem Brownlowioideae | *Discoidites borneensis* Muller | Pollen | Malaysia | Paleocene | 66–56 | Muller, 1968 | Assigned to stem Brownlowioideae by Hernández-Gutiérrez and Magallón, 2019 |
| Crown Bombacoideae | *Bombacacidites annae* (Van der Hammen) Germeraad | Pollen | Colombia | Late Palaeocene | 62–56 | Van der Hammen, 1954; Carvalho et al., 2011 | Assigned to stem Bombacoideae by Hernández-Gutiérrez and Magallón, 2019 |
| Crown Eumalvoideae | *Malvaciphyllum macondicus* M. Carvalho | Leaves | Colombia | Late Palaeocene | 62–56 | Carvalho et al., 2011 | Assigned to stem Eumalvoideae by Hernández-Gutiérrez and Magallón, 2019 |
| Crown Byttnerioideae | *Guazuma santacruzensis* Woodcock, Meyer & Prado | Wood | Peru | Late middle Eocene | 39 | Woodcock et al., 2019 | This study |

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