

Supplementary Information

New theropod dinosaur from the Lower Cretaceous of Japan provides critical implications for the early evolution of ornithomimosaur

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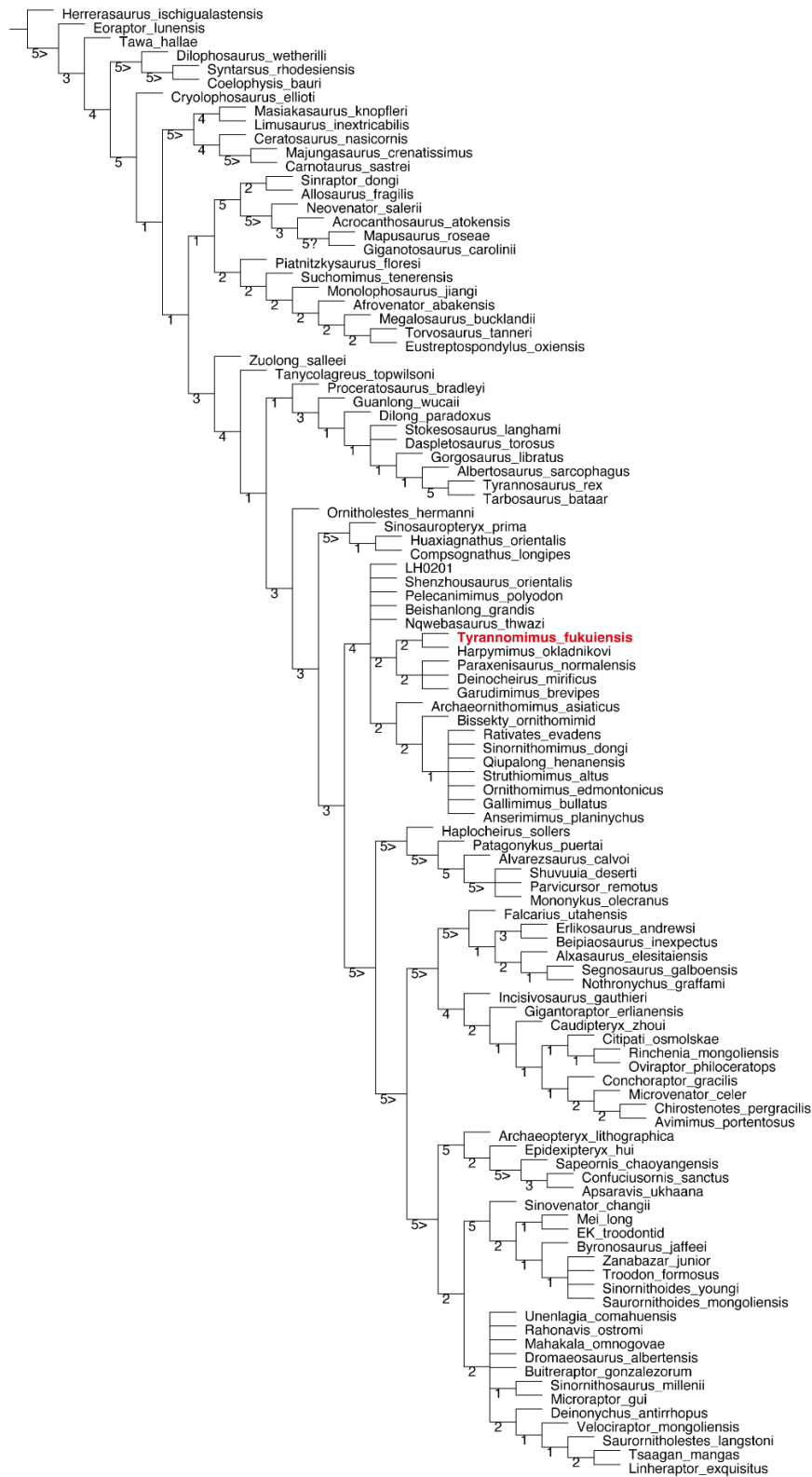


Figure S1. Strict consensus tree of 2640 MPTs with a length of 3016 steps (CI = 0.217; RI = 0.608) resulted by the phylogenetic analysis conducted in the present study. Numbers associated with nodes represent Bremer support values.

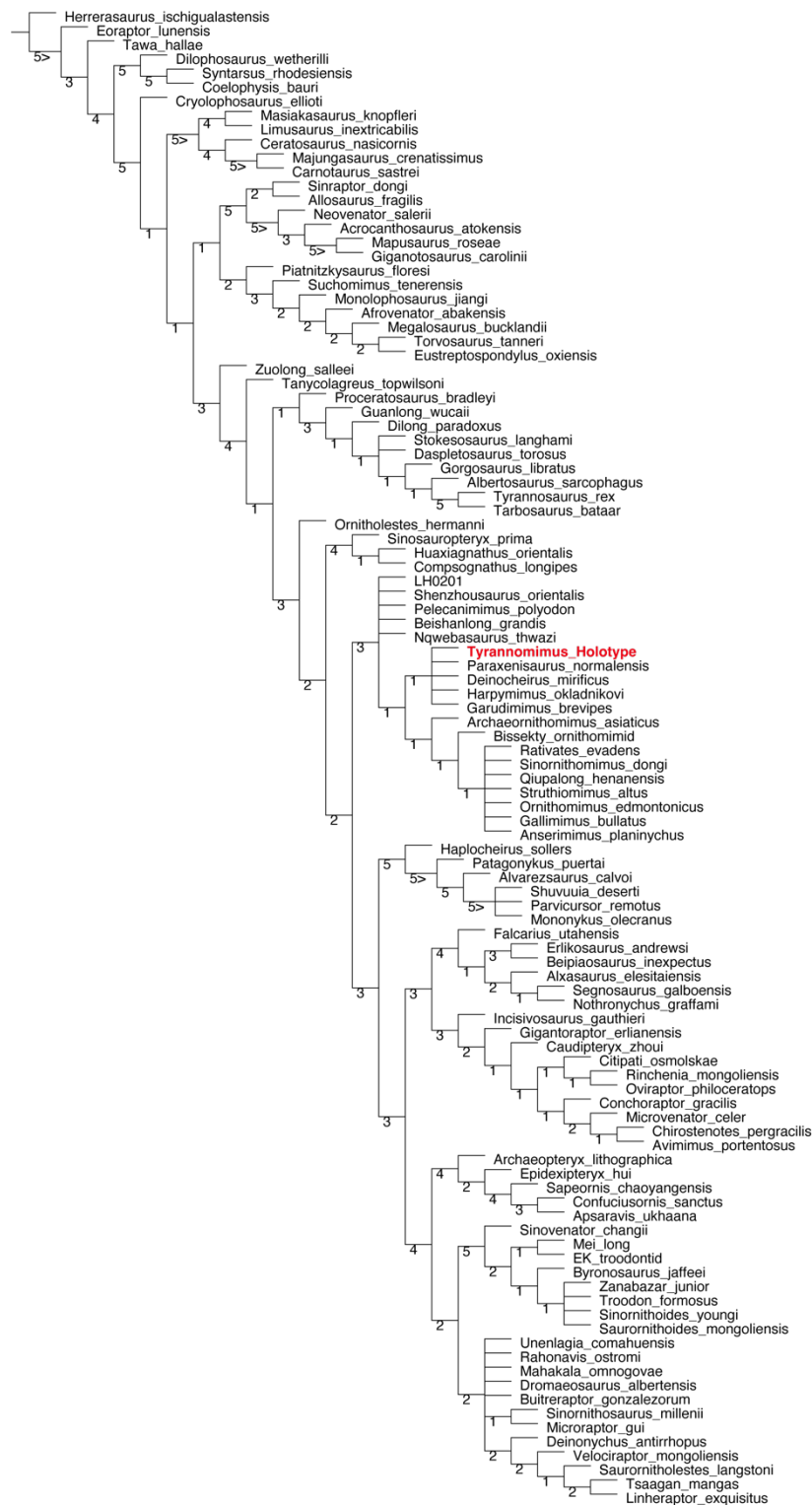


Figure S2. Strict consensus tree of 5280 MPTs with a length of 3007 steps (CI = 0.219; RI = 0.610) resulted by the phylogenetic analysis conducted with *Tyrannomimus fukuiensis* scored from the holotype alone. Numbers associated with nodes represent Bremer support values.



Figure S3. Strict consensus tree of 2640 MPTs with a length of 3019 steps (CI = 0.217; RI = 0.608) resulted by the phylogenetic analysis conducted with *Aviatyrannis jurassica* being added. Numbers associated with nodes represent Bremer support values.

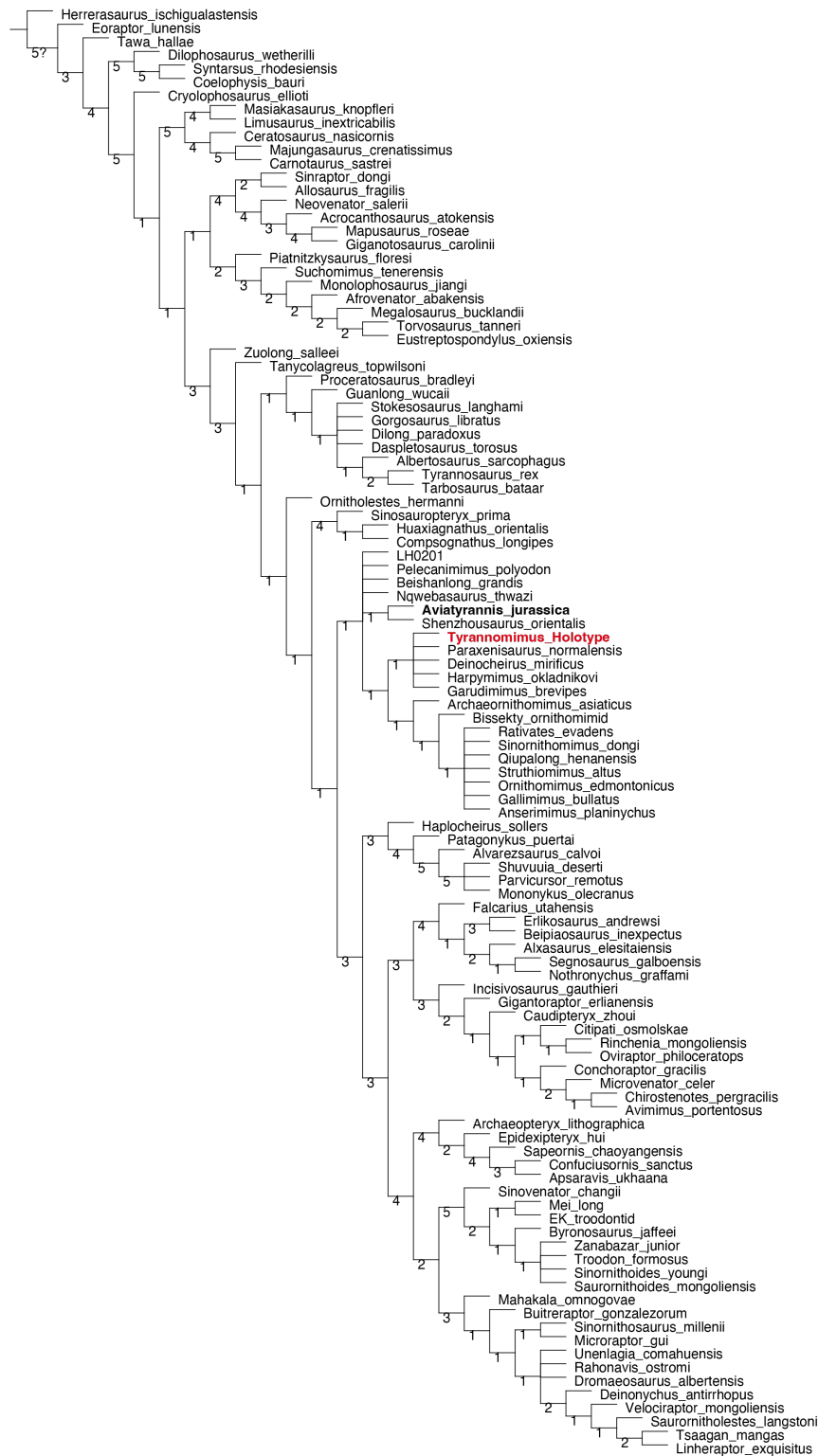


Figure S4. Strict consensus tree of 7920 MPTs with a length of 3011 steps (CI = 0.216; RI = 0.606) resulted by the analysis conducted with *Tyrannomimus fukuiensis* scored from the holotype alone and *Aviatyrannis jurassica* being added. Numbers associated with nodes represent Bremer support values.