

Figure S1. Phylogenetic tree of *Boletaceae* based on 28S dataset. RAxML BP values ($\geq 50\%$) are shown above branches. Notes: C = Central, E = Eastern, N = Northern, S = Southern, SE = Southeastern, SW = Southwestern.

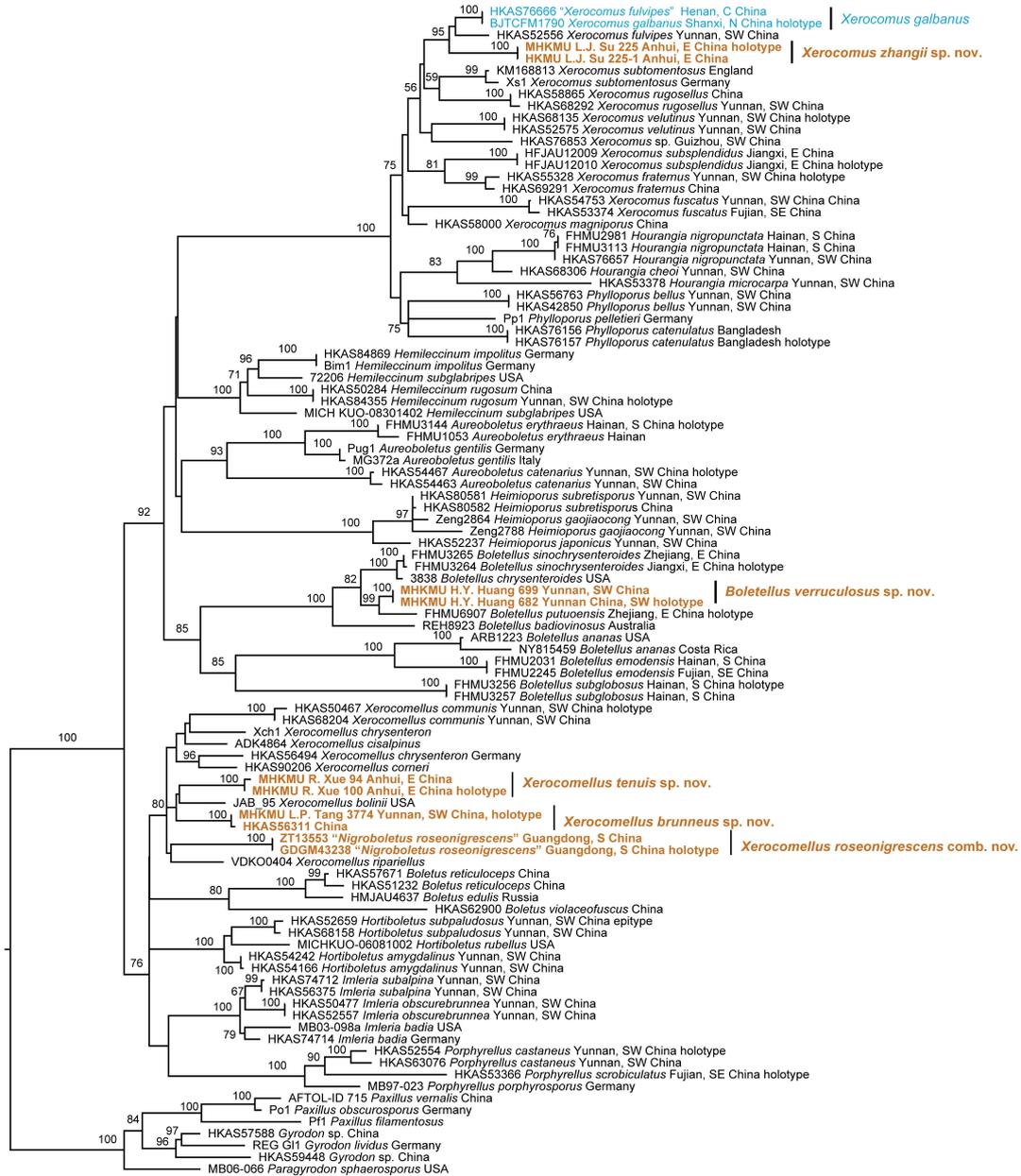


Figure S2. Phylogenetic tree of *Boletaceae* based on *tef1* dataset. RAXML BP values ($\geq 50\%$) are shown above branches. Notes: C = Central, E = Eastern, N = Northern, S = Southern, SE = Southeastern, SW = Southwestern.

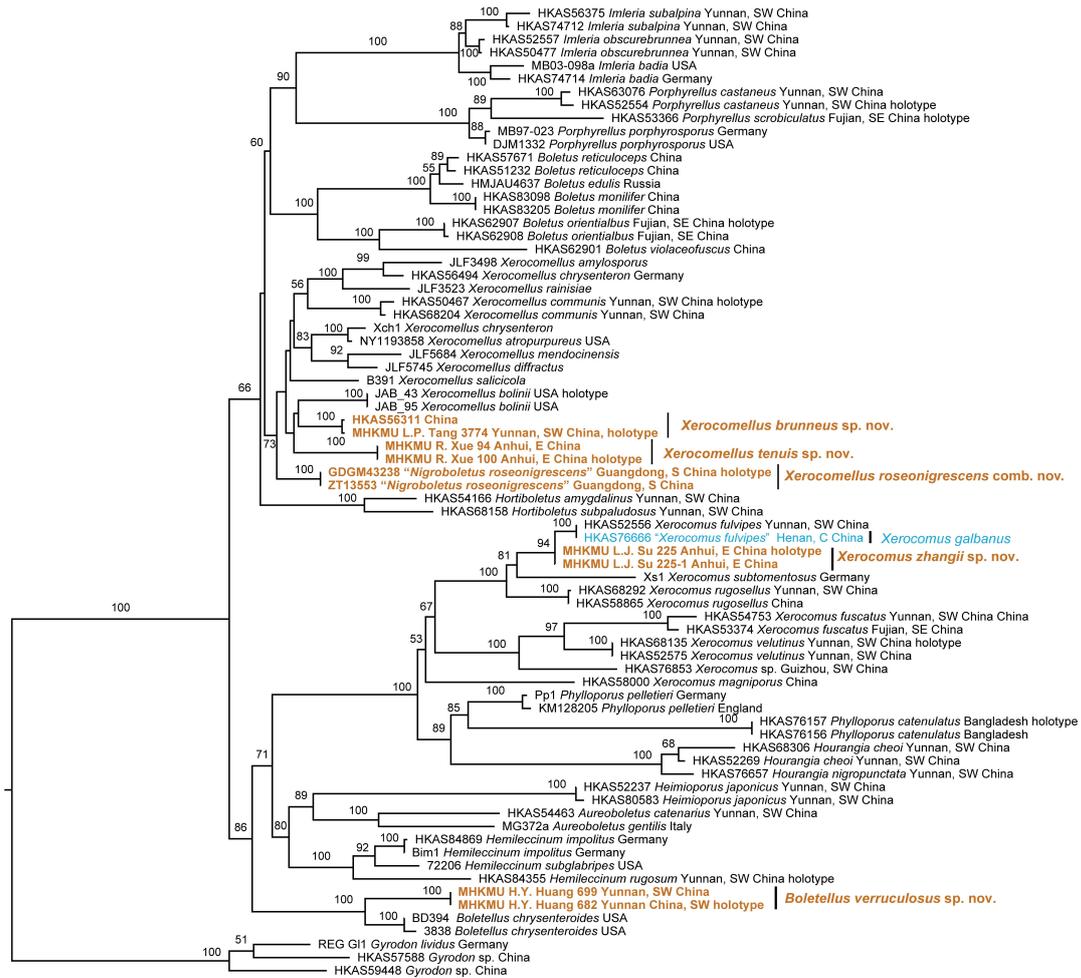


Figure S3. Phylogenetic tree of *Boletaceae* based on *rpb1* dataset. RAxML BP values ($\geq 50\%$) are shown above branches. Notes: C = Central, E = Eastern, N = Northern, S = Southern, SE = Southeastern, SW = Southwestern.



Figure S4. Phylogenetic tree of *Boletaceae* based on *rpb2* dataset. RAxML BP values ($\geq 50\%$) are shown above branches. Notes: C = Central, E = Eastern, N = Northern, S = Southern, SE = Southeastern, SW = Southwestern.