List of Supplementary Files

Supplementary Data 1 – The tooth.sim() function used to simulate the tooth row

Supplementary Data 2 – The multi.tooth.sim function used to carry out multiple simulations, convert output tooth numbers to multistate characters, and carry out model fittings

Supplementary Data 3 – The multi.tooth.sim() arguments used in each simulation set

Supplementary Data 4 – The analysis code for the empirical datasets

Supplementary Data 5 – Time calibrated tree from Meredith et al. (2011) in nexus format

Supplementary Data 6 – Character matrix of Bi et al. (2014) in nexus format

Supplementary Data 7 – Time calibrated tree from Jones et al. (2013) in nexus format

Supplementary Data 8 – Character matrix of Reeder et al. (2015) in nexus format

Supplementary Readme – instructions for using the tooth.sim and multi.tooth.sim functions