**Supporting Information**

We provide, in reverse chronological order, an extended topical bibliography [S1–S351] to demonstrate the historic and continuing importance of the correlations of leaf physiognomy and temperature. Most of the cited literature is directly affected by this paper because it either features, or uses extant vegetation to calibrate and interpret, quantitative and qualitative paleotemperature estimates derived from fossil leaf physiognomy. In many cases numerous estimates, each from a corresponding fossil flora, are given in a single paper. However, we also include a large selection of the most influential related papers, especially those that address living and fossil leaf-teeth, often but not always in a climatic context. These include critiques of the paleotemperature approach; taphonomic work on leaf-margin preservation; historic observations and ecological studies of leaf teeth; paleoclimate modeling results that take paleobotanical temperature estimates into account as constraints; morphometric, phylogenetic, and developmental-genetic studies of leaf toothing and lobing; and physiological and modeling studies of water, carbon, and heat flux in leaf teeth. We exclude purely descriptive work and the abundant literature that considers leaf size but not margin features. This bibliography is available electronically by request to P. Wilf.

Extended Bibliography

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