SYNFACTS
Highlights in Current Synthetic Organic Chemistry
Total Synthesis of Santalin Y

**Significance:** Santalin Y is a racemic natural product that has been isolated from red sandalwood and possessing a unique [6,6,6,5]-oxafenestrane framework. Following their recent synthesis of santalin A,B (Angew. Chem. Int. Ed. 2013, 52, 9509), the Trauner group now discloses a biomimetic synthesis of santalin Y that relies on an oxidopyrylium (2+3) cycloaddition. Calculations indicate that this step proceeds concerted albeit asynchronously.

**Comment:** Substituted styrene F was prepared from allyl benzene C and styrene D by means of crossed olefin metathesis. Exposing a mixture of chromone H and styrene F to Et$_3$N in trifluoroethanol lead first to the formation of oxidopyrylium I and then to a subsequent (2+3) cycloaddition to give K. Intermediate K underwent in situ Friedel–Crafts alkylation to furnish santalin Y in 67% isolated yield.