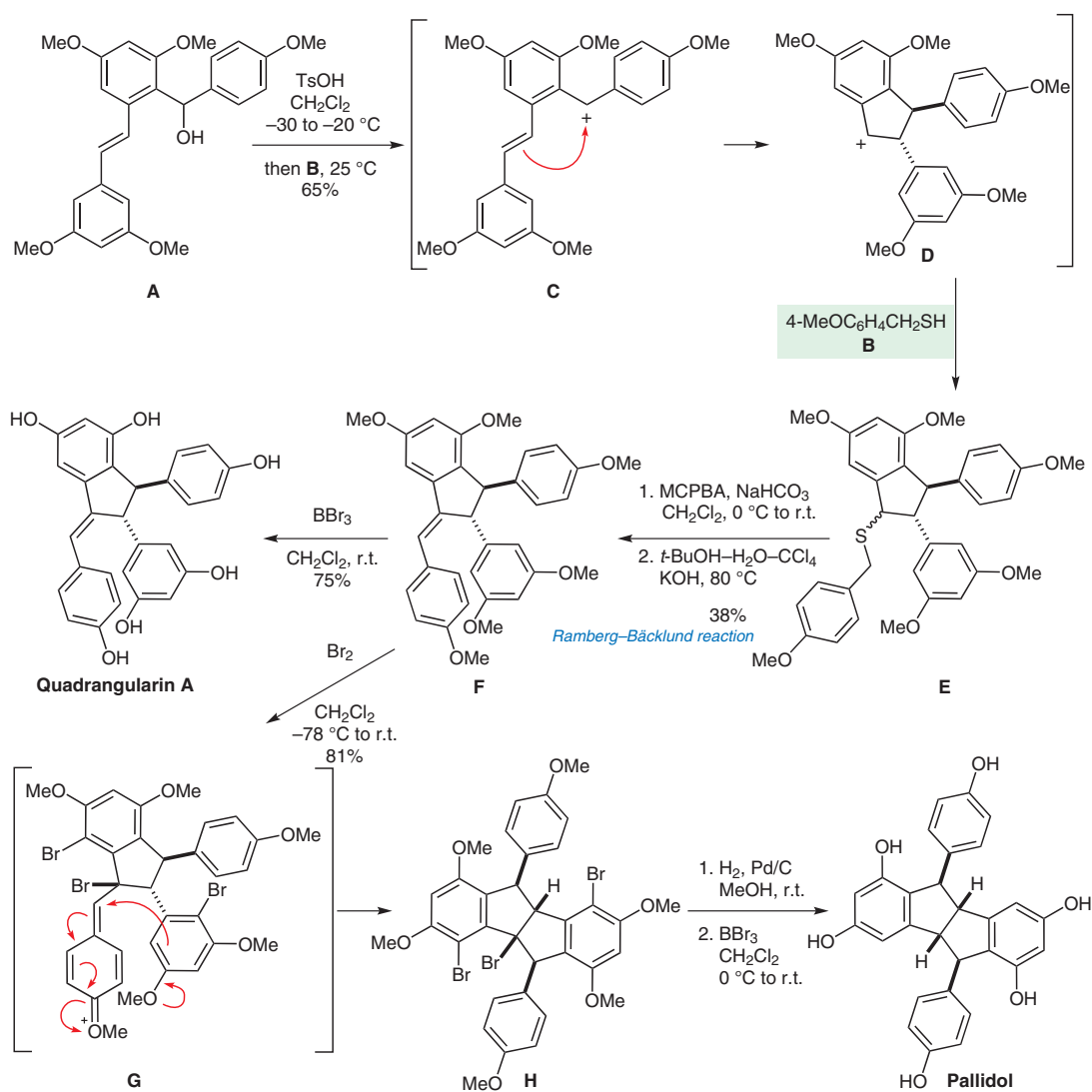


## Synthesis of Quadrangularin A and Pallidol



**Significance:** Resveratrol-based oligomers are produced combinatorially by plants in response to environmental stress. Snyder and co-workers report that the core structure **A** can be transformed to every member of the family by simply altering reagents and reaction conditions. Pallidol, quadrangularin, ampelopsins D and F, paucifloral F, and hemsleyanol E were all synthesized by related cationic cyclization cascades.

**Comment:** Treatment of **A** with acid generated carbocation **C** that cyclized regioselectively followed by cation capture by thiol **B**. The resultant thioether **E** was used in a Ramberg-Bäcklund rearrangement to install the fourth aromatic ring of **F**, the precursor to quadrangularin A. A further cationic cyclization of **F** generated the tetracyclic array of **H**, a precursor to pallidol.