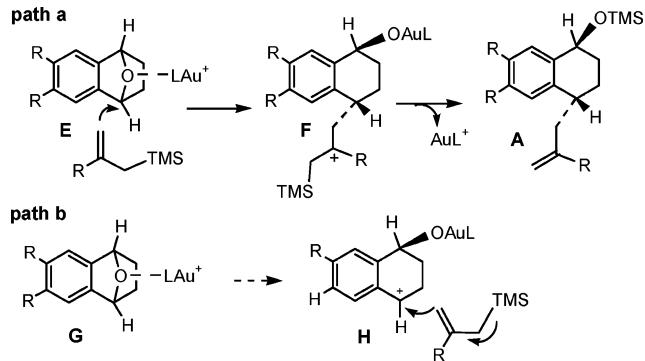








**Scheme 2.** Proposed Mechanisms for Ring-Opening and Allylation



species into naphthalenes, and a  $S_N1$  process (path b) is also likely involved in the initial allylation particularly for electron-rich benzenes.

This work reports unprecedented [4 + 3]-annulations of oxacyclic benzenes with 2-substituted allylsilanes through tandem allylation and cyclization;  $\text{PPh}_3\text{AuSbF}_6$  is better than common Lewis acids in this annulation because of its less oxaphilicity and reasonable electrophilicity. The synthetic value of this catalytic reaction is enhanced by its compatibility with oxygen-containing silane **9g** and electron-rich alkenes. The use of this method for the synthesis of bioactive molecules is currently under study.

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**Supporting Information Available:** Experimental procedures for the synthesis of starting substrates and catalytic operations, NMR spectra, and spectral data of new compounds. This material is available free of charge via the Internet at <http://pubs.acs.org>.

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