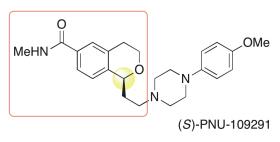
## Enantioselective Allylic C-H Oxidation of Terminal Olefins to Isochromans by Palladium(II)/Chiral Sulfoxide Catalysis

## Wei Liu and M. Christina White

The enantioselective synthesis of isochroman motifs has been accomplished by palladium(II)-catalyzed allylic C–H oxidation from terminal olefin precursors. Critical to the success of this goal was the development and utilization of a novel chiral aryl sulfoxide-oxazoline (ArSOX) ligand. The allylic C–H oxidation reaction proceeds with the broadest scope and highest levels of asymmetric induction reported to date (avg. 92% ee, 13 examples with great than 90% ee).



13 examples Avg. 92% ee Open to air, moisture

## asymmetric allylic C-H oxidation

