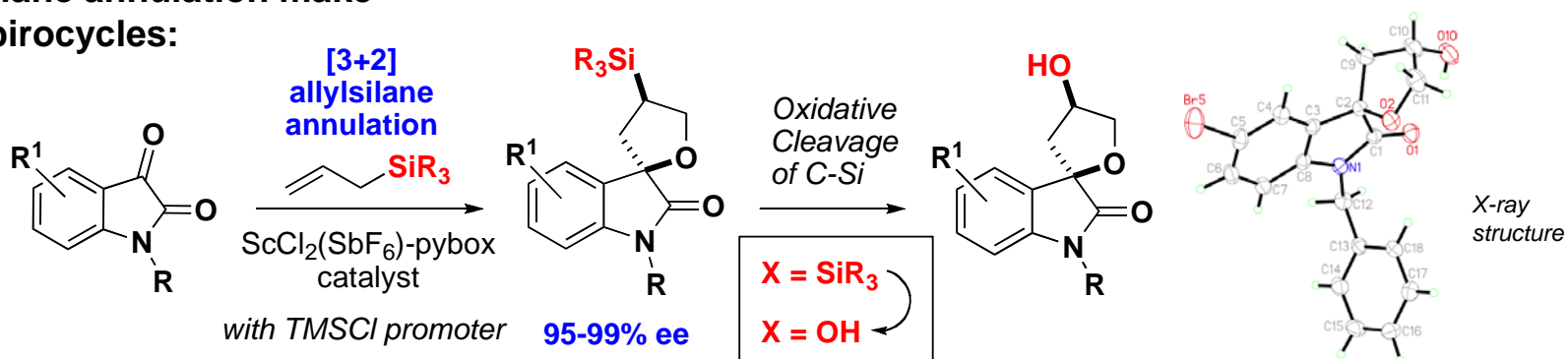


# Catalysts Produce Complex Spirocyclic Molecules in One Step

Catalysts are the matchmakers of the laboratory, connecting simple molecules together to produce more complex molecules that are important for medicines, materials & energy. From metal catalysts to phosphoric acids, these chiral catalysts help us discover new molecules and use more environmentally-friendly processes.

Catalysts for the first asymmetric [3+2] allylsilane annulation make new silyl spirocycles:



Catalysts for an enantioselective Pictet-Spengler spirocyclization:

