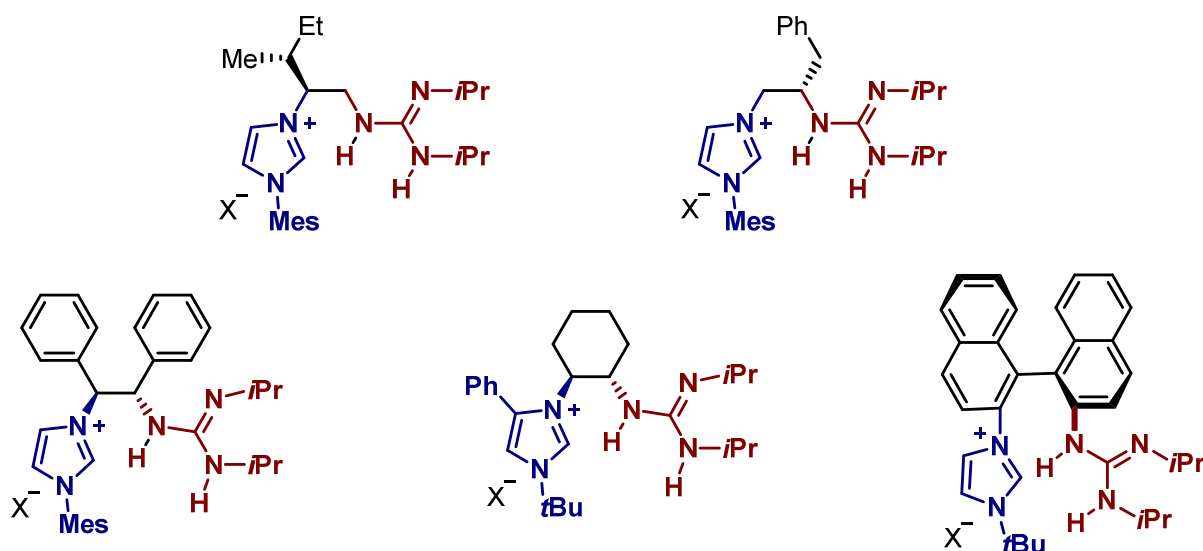
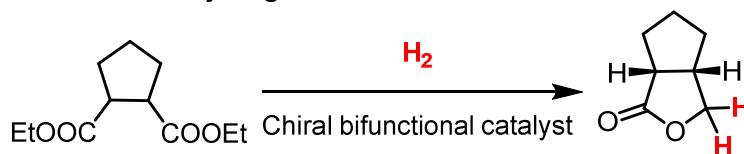


Design and synthesis of chiral NHC/guanidinium bifunctional catalysts for asymmetric and site selective transformation

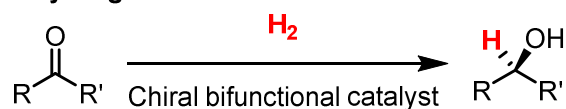
Mahadeb Gorai - WS19 batch
Supervisors: Prof.Dr. Johannes F. Teichert, TU Berlin
Prof. Stephen Fletcher, University of Oxford



Site Selective Hydrogenation:



Asymmetric Hydrogenation of Ketone:



In my present project, we are focusing on the development of new series of chiral NHC/guanidine bifunctional catalysts. With these complexes, we are attempting to perform the site selective hydrogenation of one ester moiety to alcohol in presence of other ester groups which, after cyclization, would ultimately form lactone. In addition, we are also focusing on the asymmetric hydrogenation of other carbonyl systems to enantiopure alcohol.