

## 报告摘要：

### **Catalysts for Asymmetric Reduction**

*Abstract:* Cost effective and efficient methods for the production of small molecule building blocks for use in medicinal and agrochemical applications remains a challenge for many academic and process chemistry groups. Safe transition from the laboratory to an industrial environment requires careful consideration of many reaction parameters, including solvent, catalyst and specialist equipment. Research from the Jones group has examined the applicability of catalysts to effect the asymmetric reduction of prochiral C=O and C=N bonds. We have examined a number of catalyst and reduction systems, in each case looking at the potential translation from the laboratory to an industrial environment. This talk will provide an overview of the chemistry discovered to-date, demonstrating ways to access chiral alcohols and amines