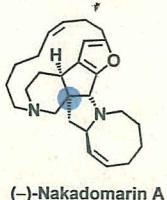
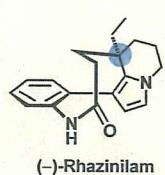
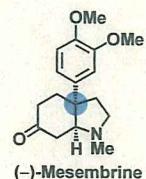
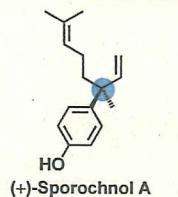


ジアミン系有機不斉触媒活用不斉ロビンソン環化反応による第四級不斉炭素中心の構築: 生理活性天然物合成への応用

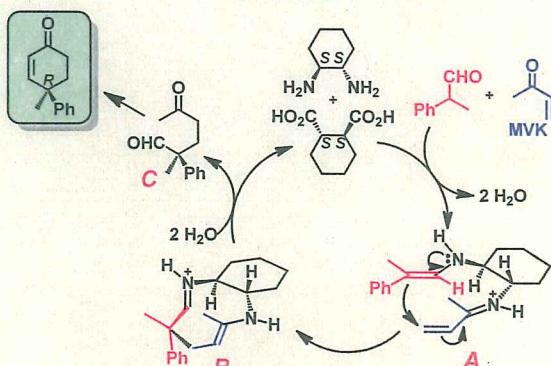


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Natural Products as Targets

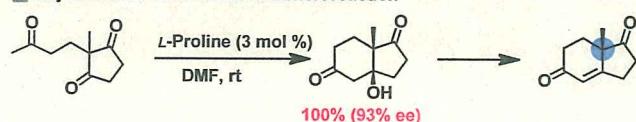


Plausible Mechanism

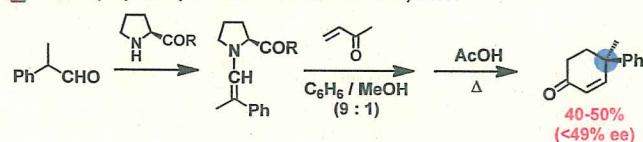


Asymmetric Robinson-type Annulation

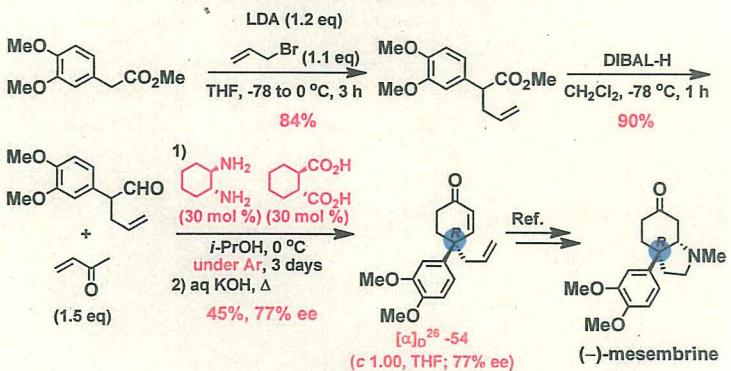
Hajos-Parrish-Eder-Sauer-Wiechert reaction



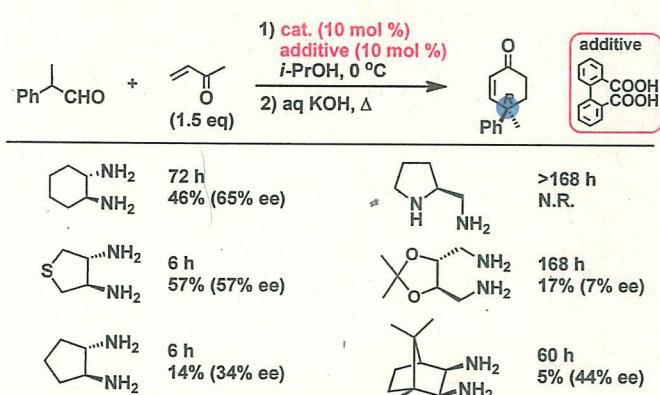
Yamada, S.; Otani, G. *Tetrahedron Lett.* 1969, 4237.



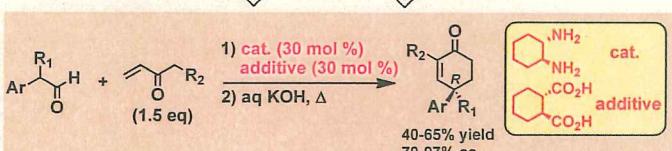
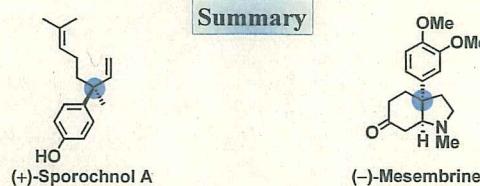
Asymmetric Synthesis of (-)-Mesembrine



Organocatalytic Asymmetric Robinson Annulation: Catalyst Screening



Summary



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