

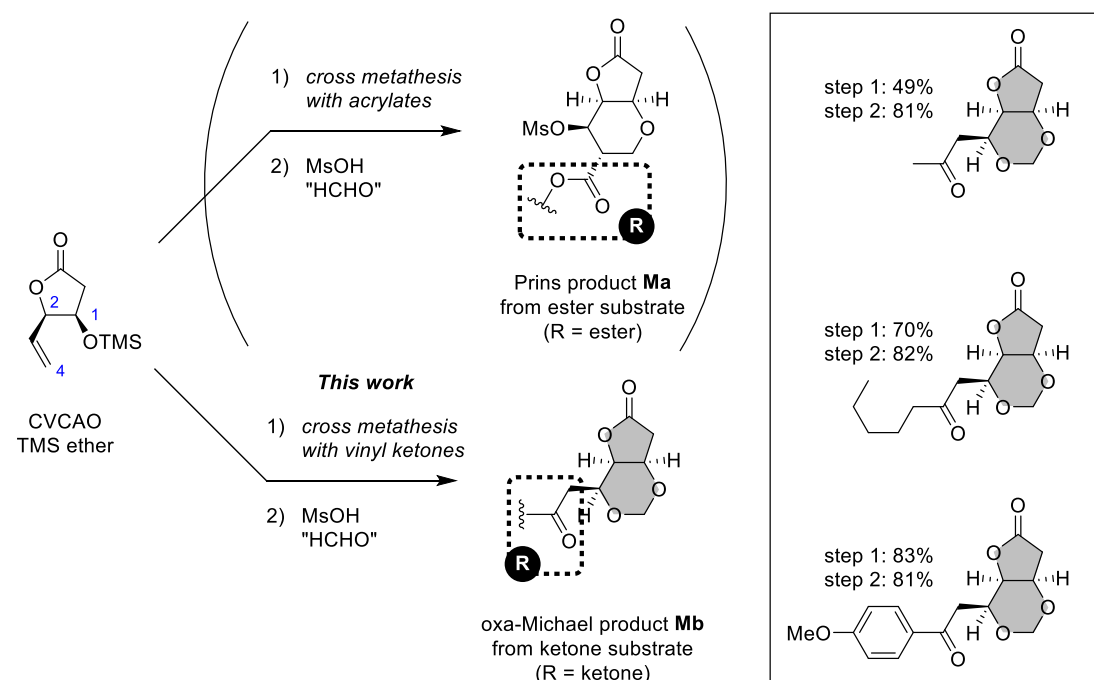
Collective Synthesis of *cis*-Fused Heterobicycles by Oxa-Michael Reactions from *cis*-2-Vinylcycloalkan-1-ol

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cis-Fused heterocycles (CFHs) are an important scaffold for neuronally active agents such as dysiherbaine and IKM-159.¹ We have previously reported the strategy for diversity-oriented synthesis of such CFHs by Prins reaction or oxa-Michael reaction, starting from *cis*-2-vinylcycloalkan-1-ol (CVCAO).² Herein, we report collective synthesis of CFHs using various enone building blocks by the latter oxa-Michael reaction strategy.



- 1) M. B. Gill, S. Frausto, M. Ikoma, M. Sasaki, M. Oikawa, R. Sakai, G. T. Swanson, *Br. J. Pharmacol.* **2010**, *160*, 1417-1429.
- 2) T. Noda, O. Hlokoane, Y. Ishikawa, M. Oikawa, *The 98th CSJ Annual Meeting*, **2018**, 3PC-035.