Total Synthesis of (–)-Nakadomarin A

J. Stephen Clark* and Chao Xu University of Glasgow, Scotland *Angew. Chem. Int. Ed.* **Early View. DOI:** 10.1002/anie.201600990

Structural Features of the Target

- 15-membered ring with Z-olefin

- Many fused heterocycles

Previous Syntheses Include:

Dixon, D. J. *J. Am. Chem. Soc.* **2009**, *131*, 16632. Dixon, D. J; Schrock, R. R.; Hoveyda, A. H. *Nature* **2011**,*479*, 88. Evans, D. A. *J. Am. Chem. Soc.* **2013**, *135*, 9338.



Jacob Ishibashi I The Weekly Meeting of the Liu Research Group I March 2, 2016

Forward Synthesis



R



³

R

`R'



Synthesis of imidoyl bromide 9

Tamura, K.; Mizukami, H.; Maeda, K.; Watanabe, H.; Uneyama, K. J. Org. Chem. 1993, 58, 32.

Synthesis of 18

