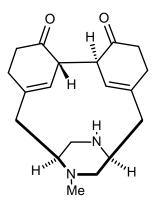
## **Concise Total Synthesis of Herqulines B and C**

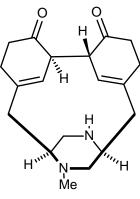
He, C.; Stratton, T. P.; Baran, P. S.\*

J. Am. Chem. Soc. 2019, 141, 29 - 32

- Originally isolated and characterzied in 1979, the tyrosine-derived herquline family of natural products has been identified to exhibit antibiotic properties, as well as inhibit platelet aggregation.
- To date, three total syntheses of the herquiline B and C scaffolds have been reported:
  - 1) Wood J. Am. Chem. Soc. **2019**, 141, 25–28
  - 2) Baran J. Am. Chem. Soc. **2019**, 141, 29–32
  - 3) Schindler J. Am. Chem. Soc. 2019, 141, 3409–3413



(+)-herquline B (3)



herquline C (14)

• In this report, herquline B was synthesized in 9 linear steps, overall 7.8% yield

Jonathan Deegan Liu Research Group 7 March 2019

## **Retrosynthetic analysis**





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