



Significance: The authors report a nine-step total synthesis of enantioenriched (+)-hosieine A. Natural products of the hosieine family were isolated from *O. hosiei* and show nanomolar activity against the nicotinic acetylcholine receptors (nAChRs). For a previous synthesis of (-)-hosieine A, see: J. Ouyang, R. Yan, X. Mi, R. Hong *Angew. Chem. Int. Ed.* **2015**, *54*, 10940.

Comment: The synthesis relied on a gold-catalyzed, enantioconvergent Rautenstrauch rearrangement that afforded enone K. After base-induced Michael addition to form L and reductive amination, spontaneous lactamization took place to give N. The lactam was reduced eventually with borane to give enantioenriched (+)-hosieine A.