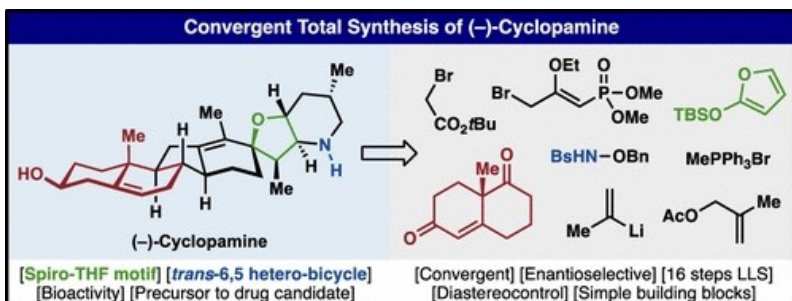


Convergent Total Synthesis of (-)-Cyclopamine
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 Benedikt Nissl, Sebastian Clementson, Nadia Nasser
 Petersen, and Phil S. Baran*
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 21765

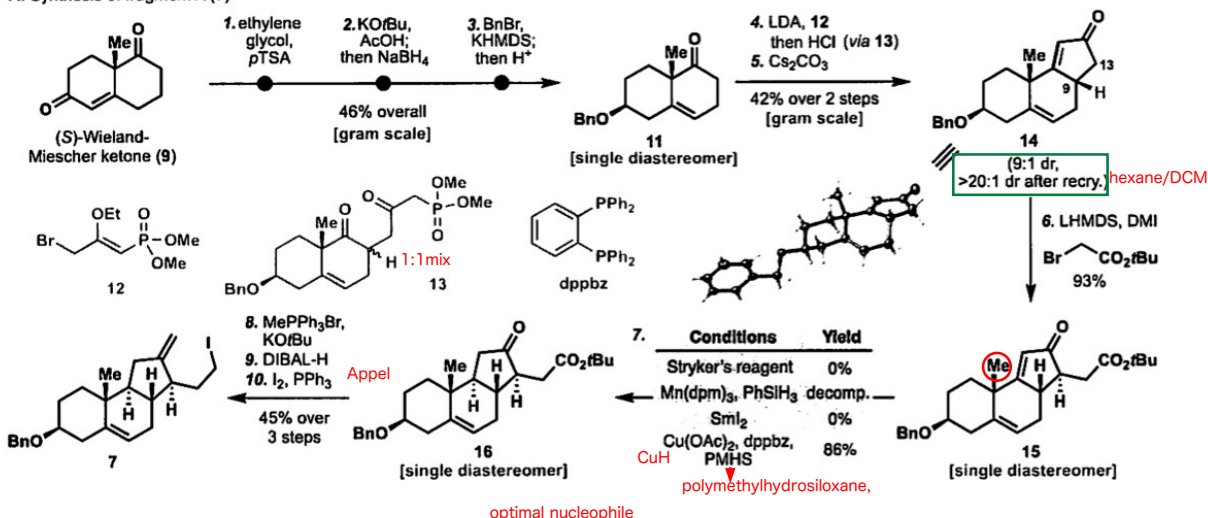
Veratrum alkaloid C-nor-D-homo steroid

strained trans 6,5-EF ring 16 steps LLS

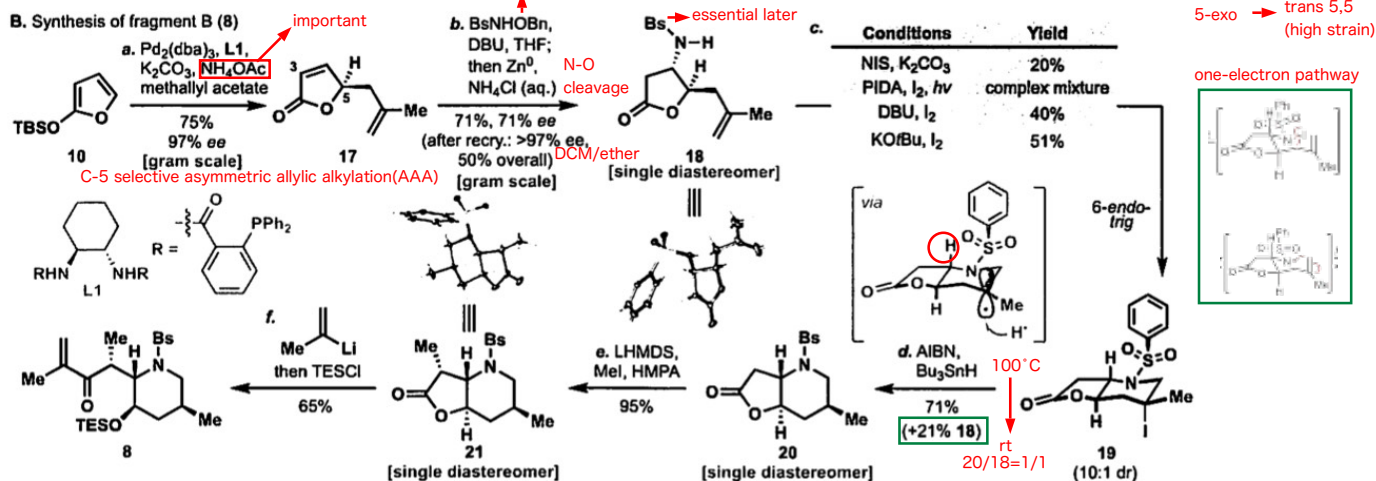
1.4% overall, 61% ideality



A. Synthesis of fragment A (7)



B. Synthesis of fragment B (8)



Scheme 2. Total Synthesis of (-)-Cyclopamine (1)

