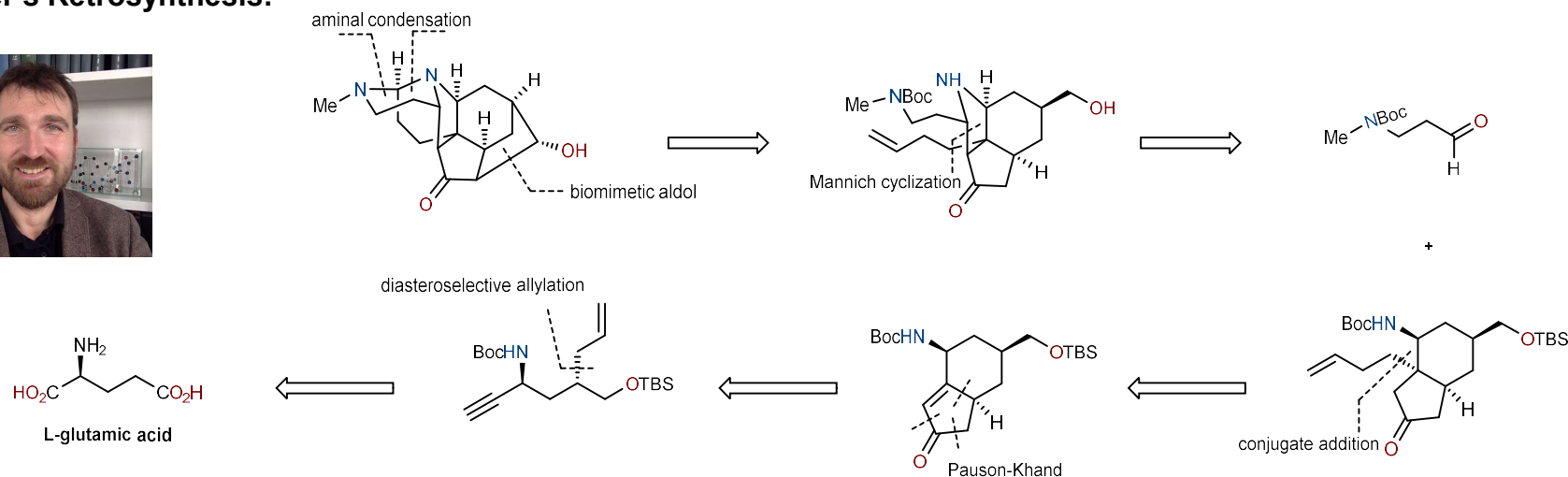


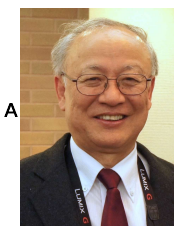
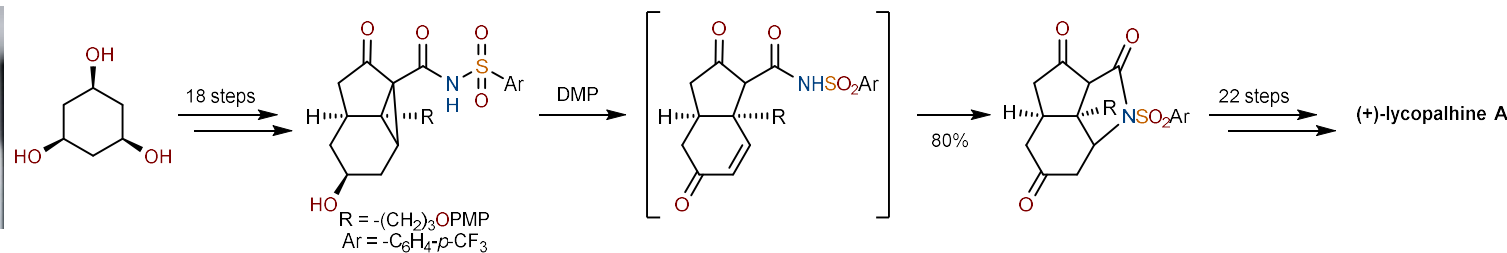
- Isolated in 1987 from *Palhinhaea cernua*
- Classified as fawcettimine-type *Lycopodium* alkaloid
- Total syntheses:
  - Trauner (2016): first total synthesis
  - Yokoshima and Fukuyama (2016)



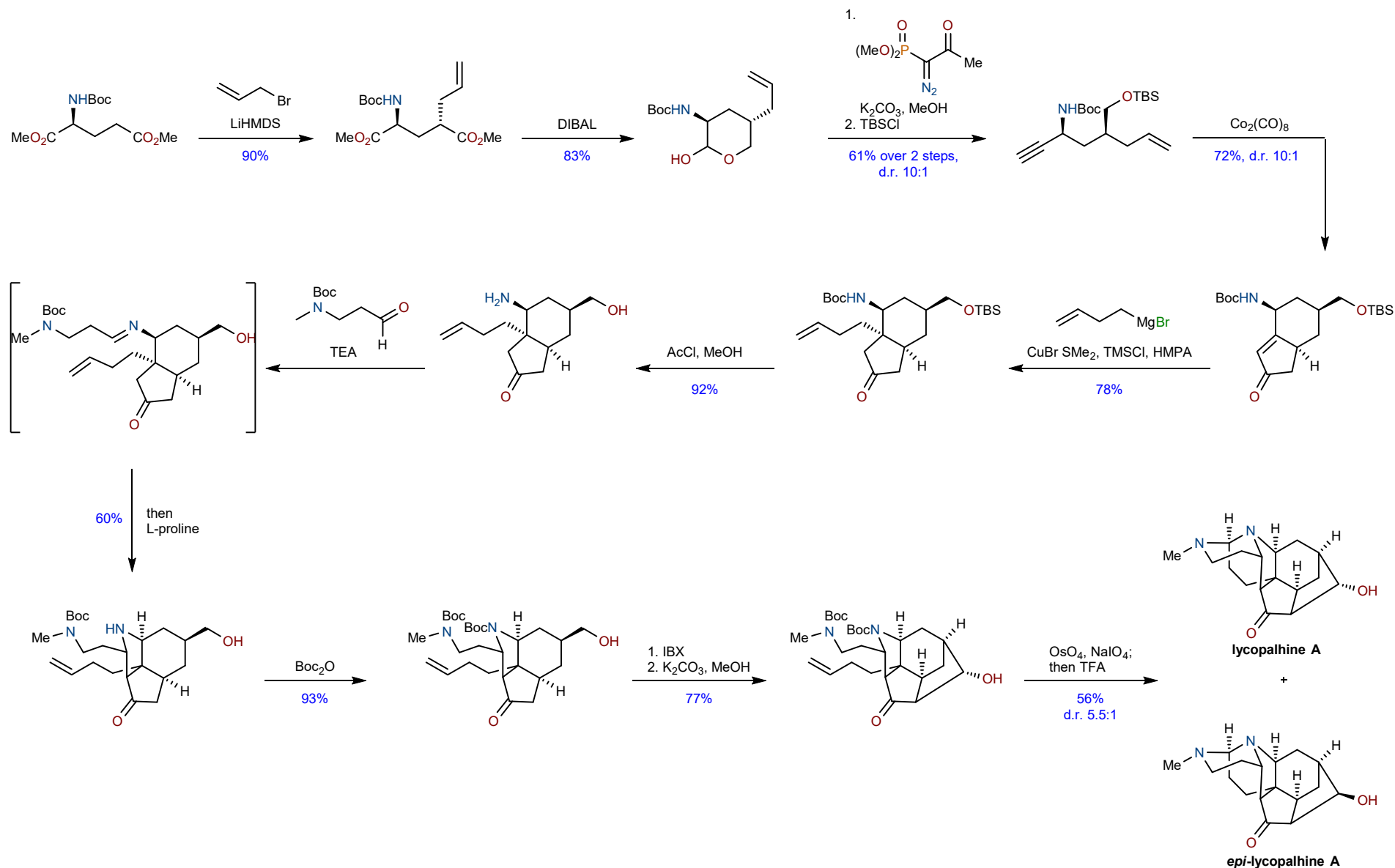
## Trauner's Retrosynthesis:



## Yokoshima and Fukuyama's Key Step:



Yokoshima, S; Fukuyama, T. *Org. Lett.* **2016**, *18*, 1494. <https://doi.org/10.1021/acs.orglett.6b00338>



Trauner, D. *Org. Lett.* **2016**, 55, 2191. <https://doi.org/10.1002/anie.201509602>