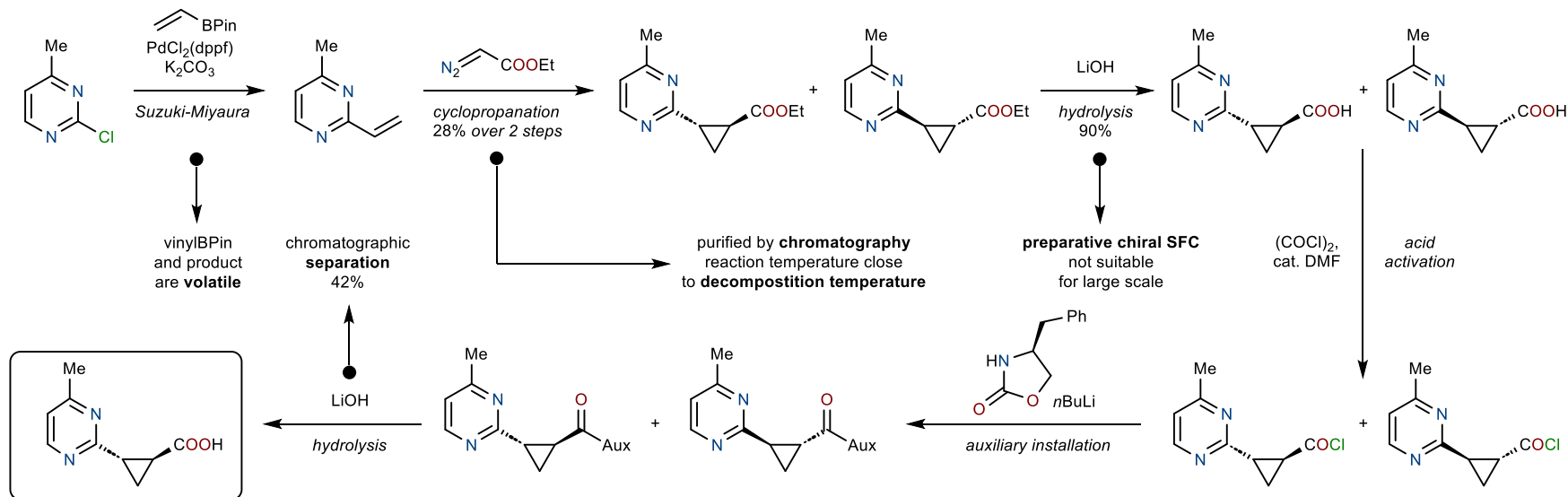
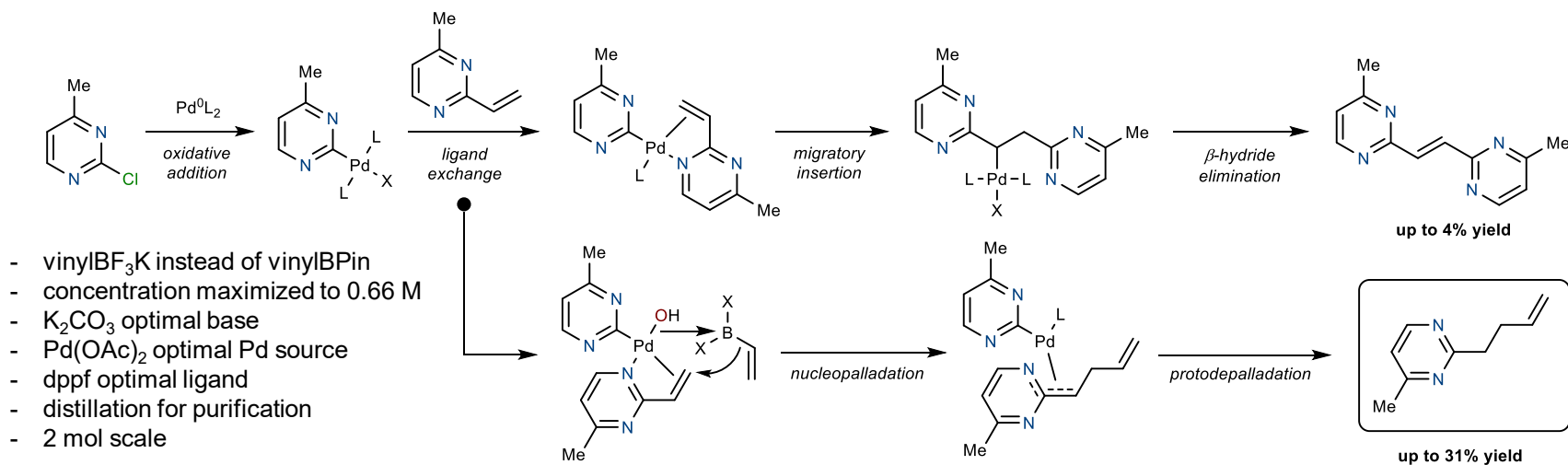


Discovery route to (1S,2S)-2-(4-methylpyrimidin-2-yl)cyclopropane-1-carboxylic acid

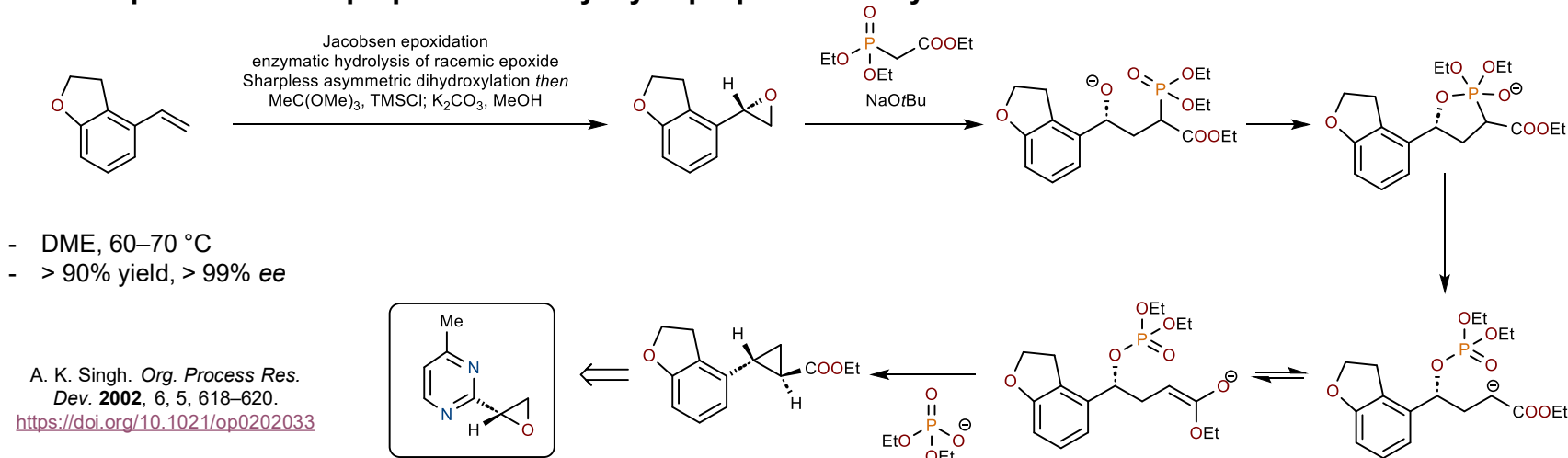


Proposed mechanism of Suzuki-Miyaura coupling byproducts formation

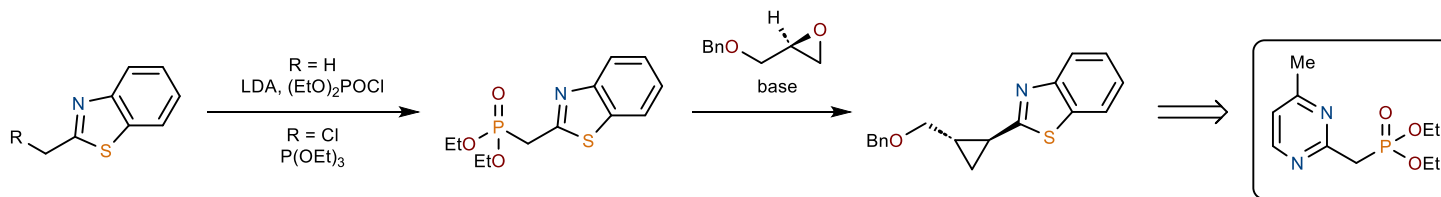


M. J. Fray, S. J. Fink. *Org. Process Res. Dev.* **2023**, XXXX, XXX, XXX-XXX. <https://doi.org/10.1021/acs.oprd.3c00175>

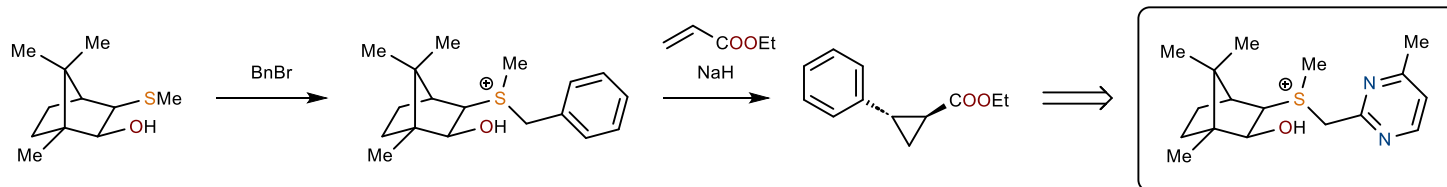
Alternative procedures for preparation of aryl cyclopropane carboxylic acids



- DME, 90 °C
- 53% yield
- ee not specified

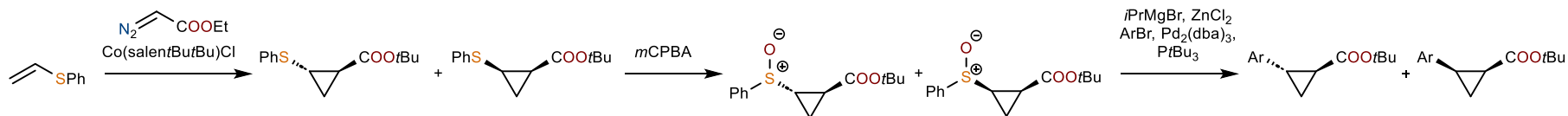


- THF, -10 °C
- 76% yield
- 99 : 1 dr, 80 ee



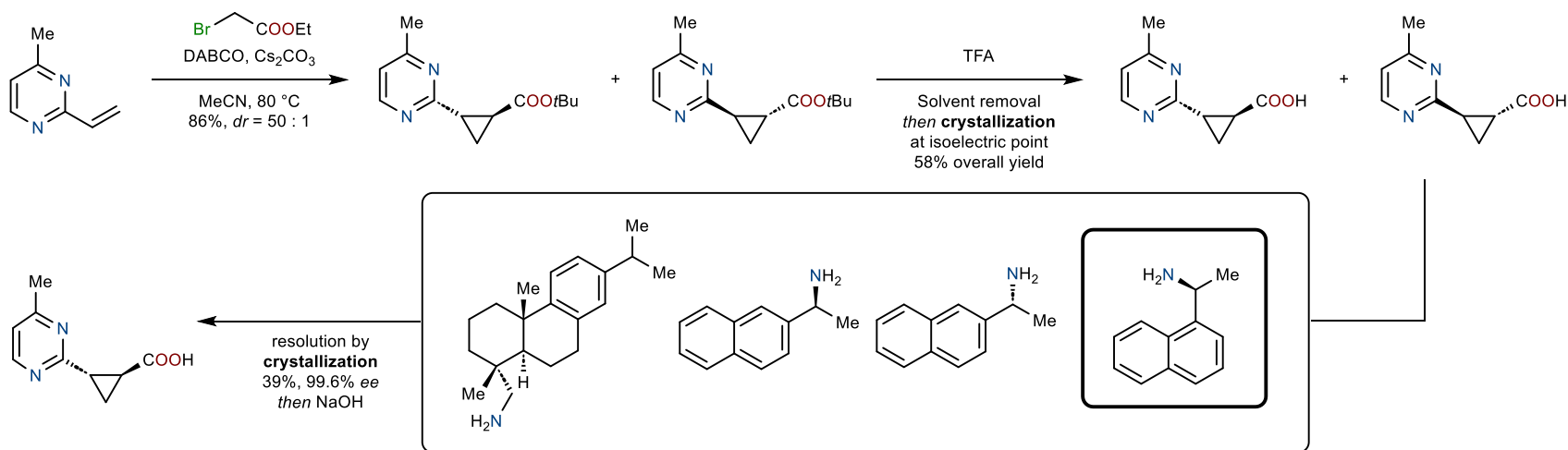
V. K. Aggarwal. *Chem. Commun.* **1997**, 18, 1785-1786. <https://doi.org/10.1039/A704214K>

M. J. Fray, S. J. Fink. *Org. Process Res. Dev.* **2023**, XXXX, XXX, XXX-XXX. <https://doi.org/10.1021/acs.oprd.3c00175>

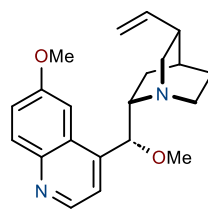


J.A. Bull. Eur. J. Org. Chem. 2017, 34, 15,5015-5024. <https://doi.org/10.1002/ejoc.201701030>

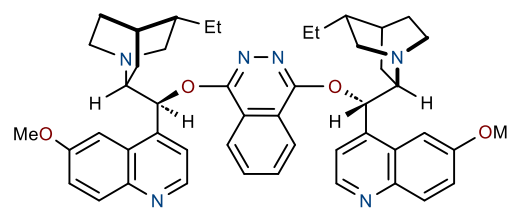
Improved route to (1*S*,2*S*)-2-(4-methylpyrimidin-2-yl)cyclopropane-1-carboxylic acid (chromatography free)



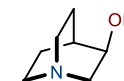
Attempts at asymmetric cyclopropanation



O-methyl quinone



DHQD-PHAL



(*R*)-(-)-3-hydroxyquinuclidine

M. J. Fray, S. J. Fink. Org. Process Res. Dev. 2023, XXXX, XXX, XXX-XXX. <https://doi.org/10.1021/acs.oprd.3c00175>