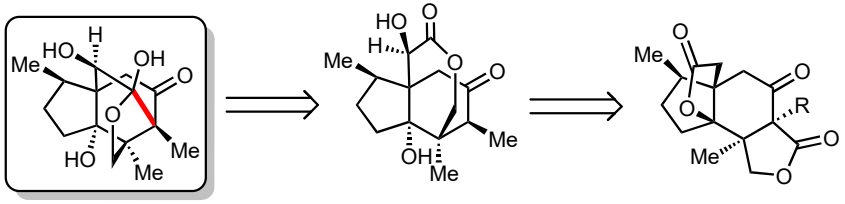
(–)-11-*O*-debenzoyltashironin (Shenvi)

J. Am. Chem. Soc. 2017, 139, 28, 9637-9644

Retrosynthetic analysis:

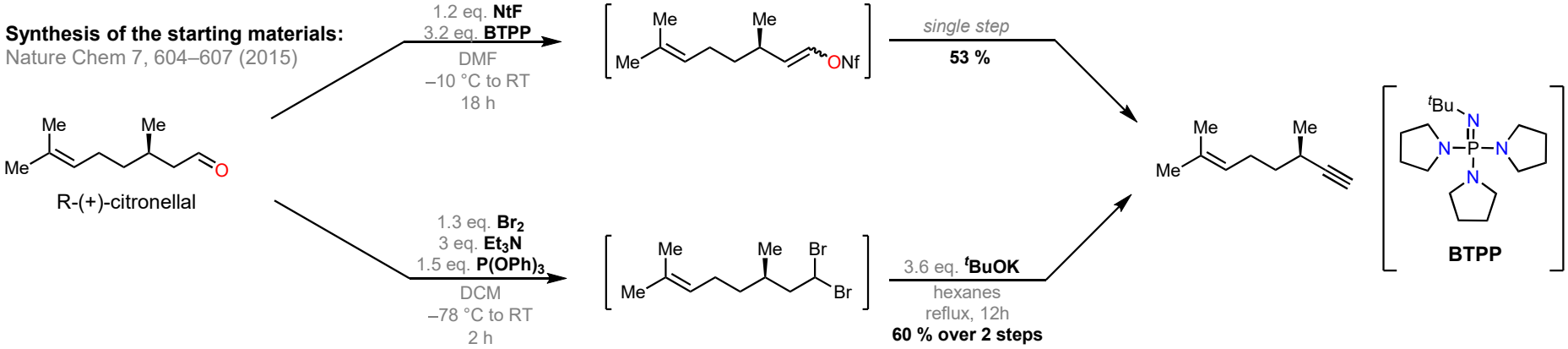


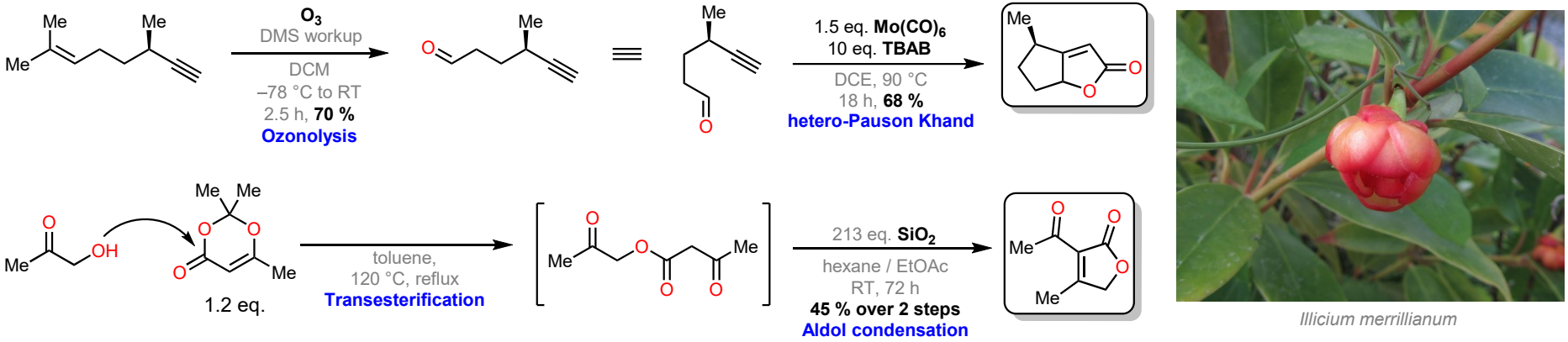
(–)-11-*O*-debenzoyltashironin ***Illicium* metabolite**

Corresponding Author	Year	Overall yield	Quantity made [mg]	Steps	Type	Key step(s)	Starting materials
Danishefsky	2009	0.85 %	1	23	Rac.	Transannular [4+2] cycloaddition via oxidative dearomatization	2.27 $/g
Shenvi	2017	1.9 %	27	10	Asym.	Intramolecular tandem Michael additions	89 $/g; 0.24 $/g; 0.90 $/g
Wang	2019	4.9 %	26	14	Rac.	Pd(II) cat. 5-endo ene-yne cyclization	2.80 $/g; 12.8 $/g

Danishefsky et al., J. Am. Chem. Soc. 2006, 128, 51, 16440-16441 Christopher Y. Bemis, SOTW, 13/4/2018 Wang et. al., Org. Lett. 2020, 22, 7, 2730-2734

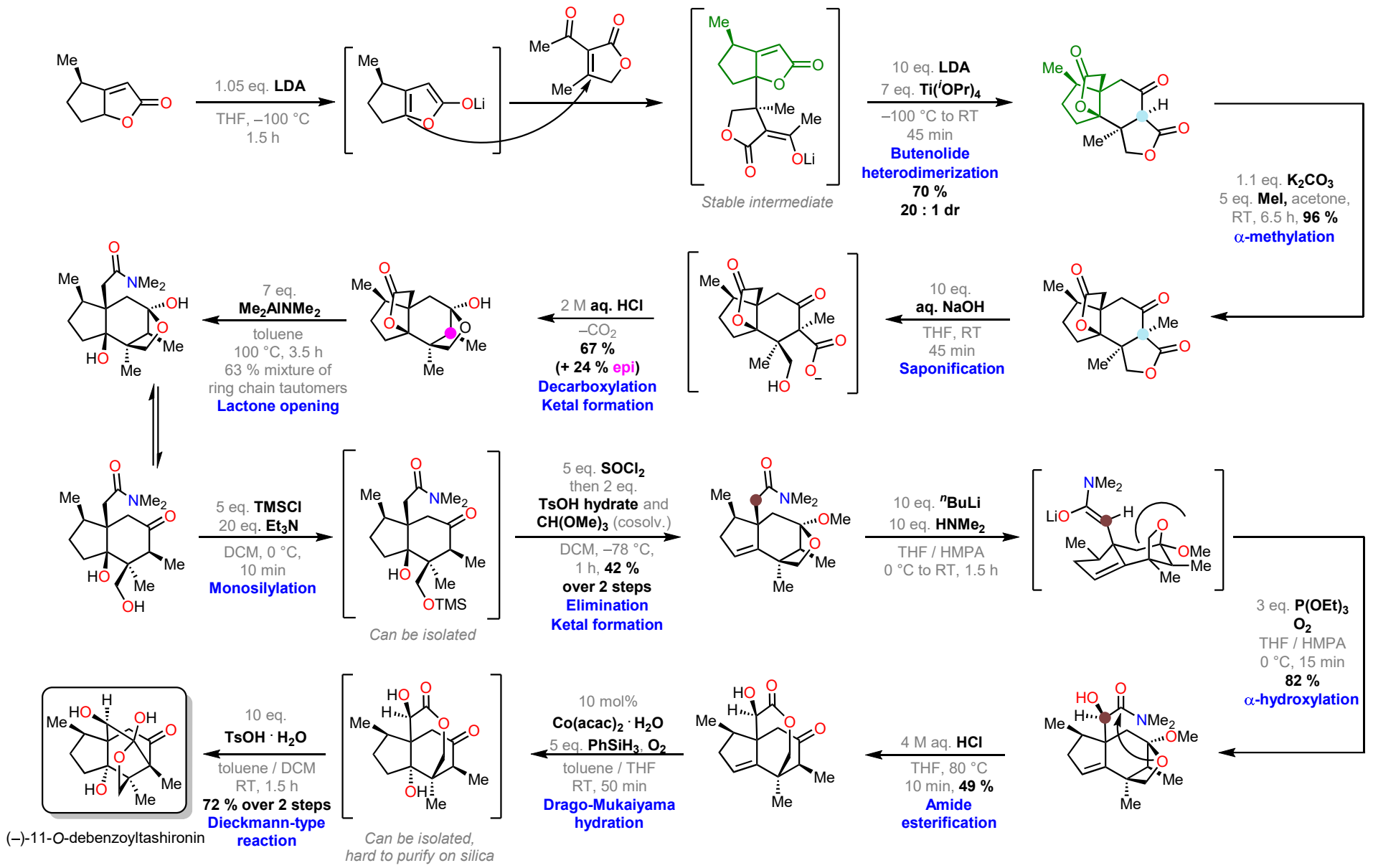
Synthesis of the starting materials:
Nature Chem 7, 604–607 (2015)





Illicium merrillianum

Jan Petrovcic, March 27 2020

(–)-11-*O*-debenzoyltashironin (Shenvi)

J. Am. Chem. Soc. 2017, 139, 28, 9637-9644