

A Local-Desymmetrization-Based Divergent Synthesis of Quinine and Quinidine

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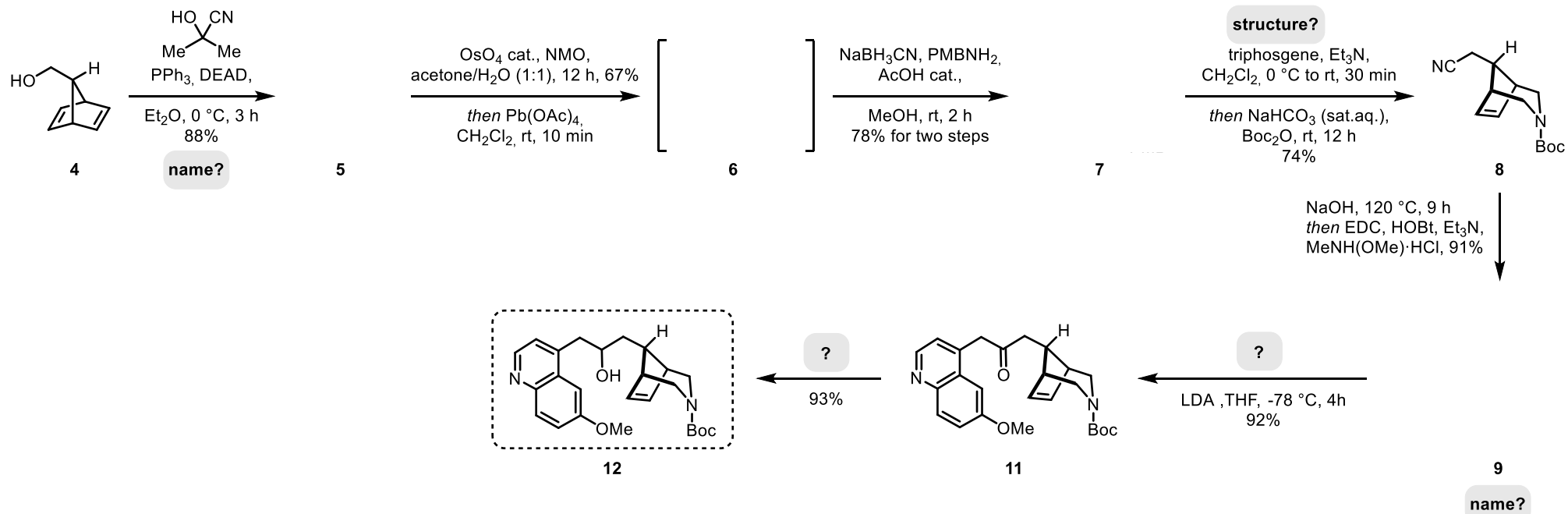
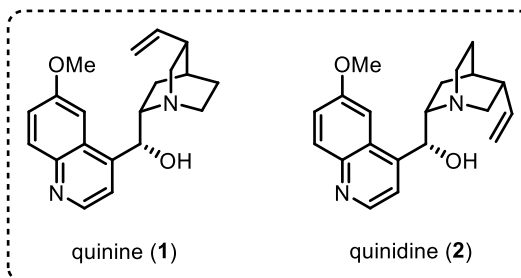
From the chinchona tree, used in the 1600s to treat shivering
 Isolated in the 1800s
 Antimalarial drug of choice until the 1940s

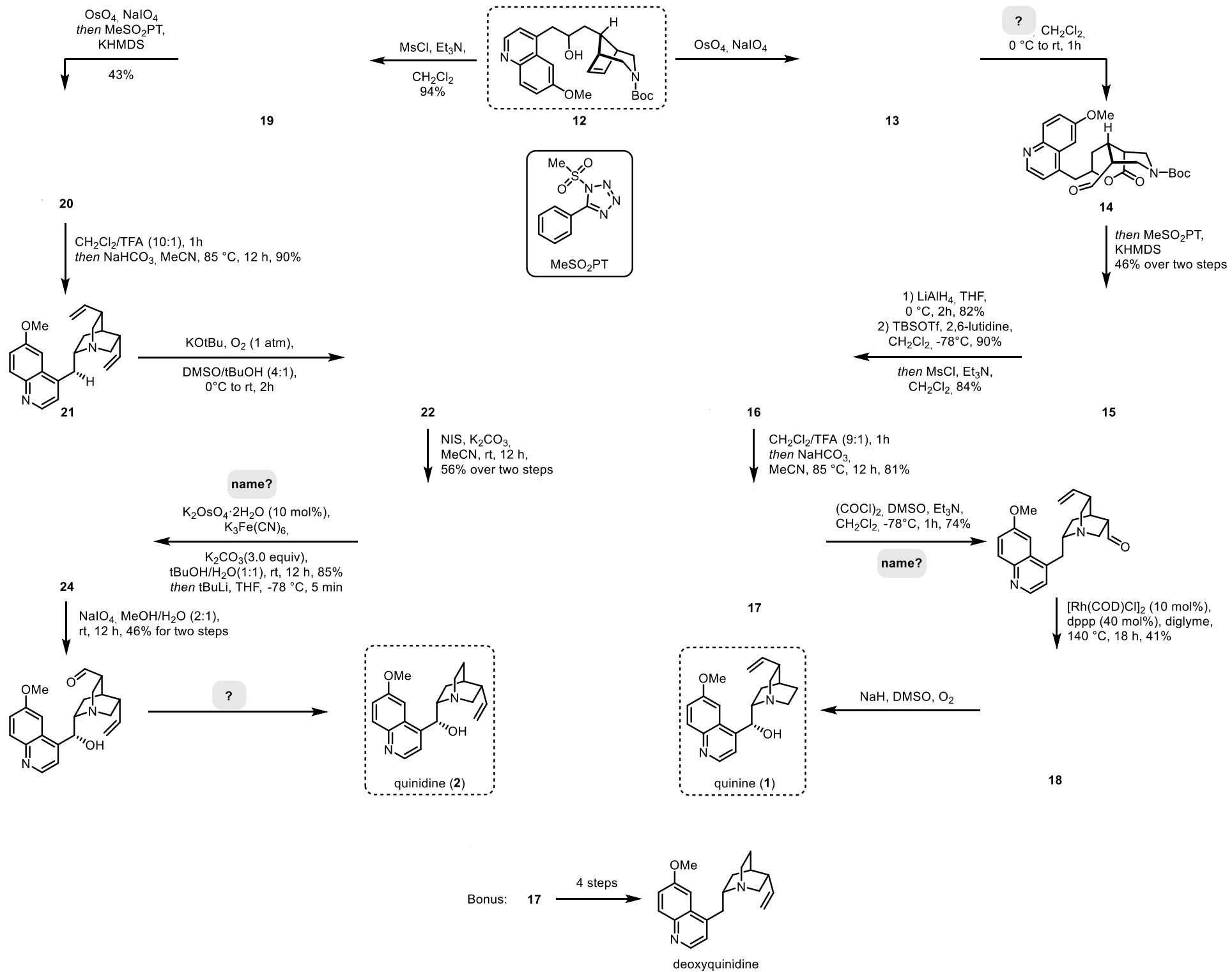
1944, Woodward and Doering - first formal synthesis
 2001, Stork - first stereoselective total synthesis

Revival as a target: catalyst for enantioselective transformations
 2018, Maulide

2019, Chen

2019, Ishikawa - first enantioselective total synthesis
 of the unnatural enantiomer





Solutions:

