Towards the synthesis of trichoether A
Weiting Ko, Roderick W. Bates*

Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences,
Nanyang Technological University, Singapore 637371, Singapore
*E-mail: roderick@ntu.edu.sg

Abstract: Trichoethers A-D, isolated from *Trichobotrys effuse* YMJ1179, displayed growth inhibitory activities against non-small-cell lung cancer. The total synthesis of trichoether A is in progress through the formation of a tricarbonyliron complex, followed by hydrostannylation, Suzuki coupling and asymmetric dihydroxylation to give the lactone moiety. The phenolic ether fragment is obtained via Sonogashira coupling and C-H functionalisation.

Keywords: Iron; Hydrostannylation; Regioselective; Suzuki coupling; Dihydroxylation.