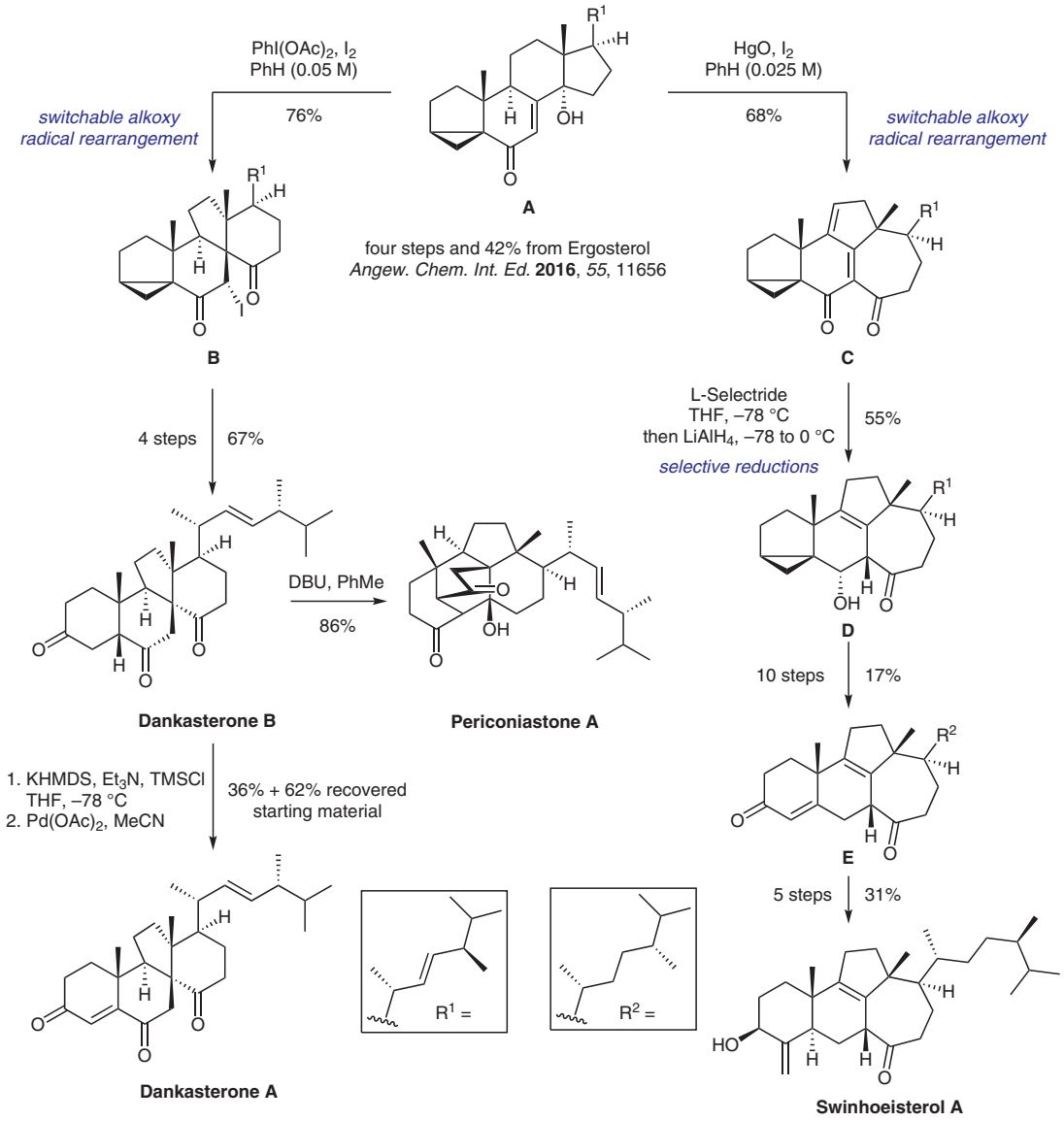
F. L. DUECKER, R. C. HEINZE, P. HERETSCH* (FREIE UNIVERSITÄT BERLIN, GERMANY)

Synthesis of Swinhoeisterol A, Dankasterone A and B, and Periconiastone A by Radical Framework Reconstruction
*J. Am. Chem. Soc.* **2020**, *142*, 104–108.

# Total Synthesis of Swinhoeisterol A, Dankasterones A and B, and Periconiastone A




**Significance:** Heretsch and co-workers report the total synthesis of a number of structurally intriguing natural products from a common intermediate. The concise synthesis is enabled by the strategic application of a switchable alkoxy radical rearrangement.

**Comment:** Ergosterol is transformed by a known route to cyclopropane **A**. Two different conditions were developed to lead selectively to **B** or **C**. Those advanced intermediates could subsequently be converted into four different complex natural products.

**SYNFACTS Contributors:** Erick M. Carreira, Felix Pultar
Synfacts 2020, 16(03), 0245 Published online: 18.02.2020
**DOI:** 10.1055/s-0039-1691678; **Reg-No.:** C00620SF



**Category**
Synthesis of Natural Products and Potential Drugs

**Key words**
swinhoeisterol A
dankasterone A
dankasterone B
periconiastone A
radical rearrangement
skeleton rearrangement

Synfact of the Month