**Synthesis of (+)-Notoamides F, I, and R and (−)-Sclerotiamide**

**Significance:** Herein, the authors describe the first total synthesis of (+)-natoamides F, I, and R, and (−)-sclerotiamide, isolated from the marine fungi *Aspergillus* sp. The synthetic strategy relies on a cobalt-mediated radical cycloisomerization and an aza-Prins cyclization to construct the bicyclo[2.2.2]diazaoctane core.

**Comment:** Treatment of diamide D with FeCl₃ induces an oxidative aza-Prins cyclization to give ester F in 67% yield. After Grignard addition of indole G, cobalt-mediated radical cyclization delivers K, which can be further transformed into (+)-natoamide I in three steps. From there, the other three natural products can be accessed.