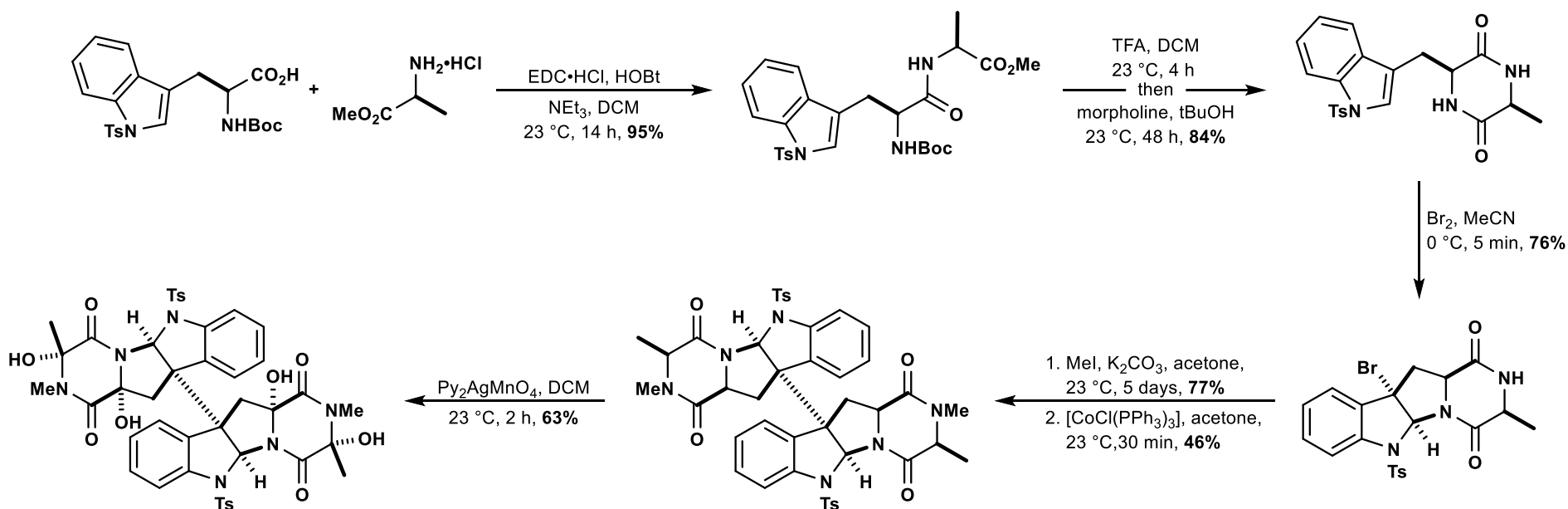
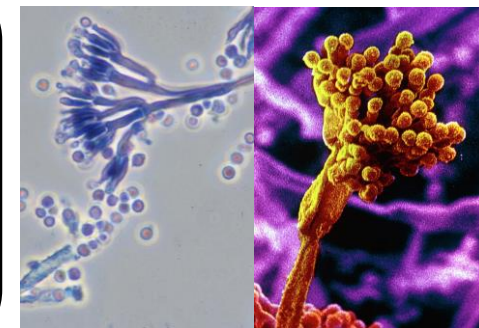


- Cytotoxic alkaloid isolated from marine *Penicillium* sp.
- Potently inhibits tyrosine kinase activity of the epidermal growth factor receptor with  $IC_{50} = 0.14$  nM and possesses antiangiogenic activity and efficacy against several cancer cell lines
- First total synthesis of a dimeric epidithiodiketopiperazine
- Enantioselectively mimics plausible biosynthesis of these compounds and offer effective strategy for other members of its family
- Features highly stereo- and chemoselective advanced stage tetrahydroxylation and tetrathiolation; as well as a mild strategy for introduction of the epidithiodiketopiperazine core as its final step



# SYNTHESIS (+)-11,11'-dideoxyverticillin A (Movassaghi, 2009)

of the week

