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Total Synthesis and Absolute Stereochemistry of Seragakinone A
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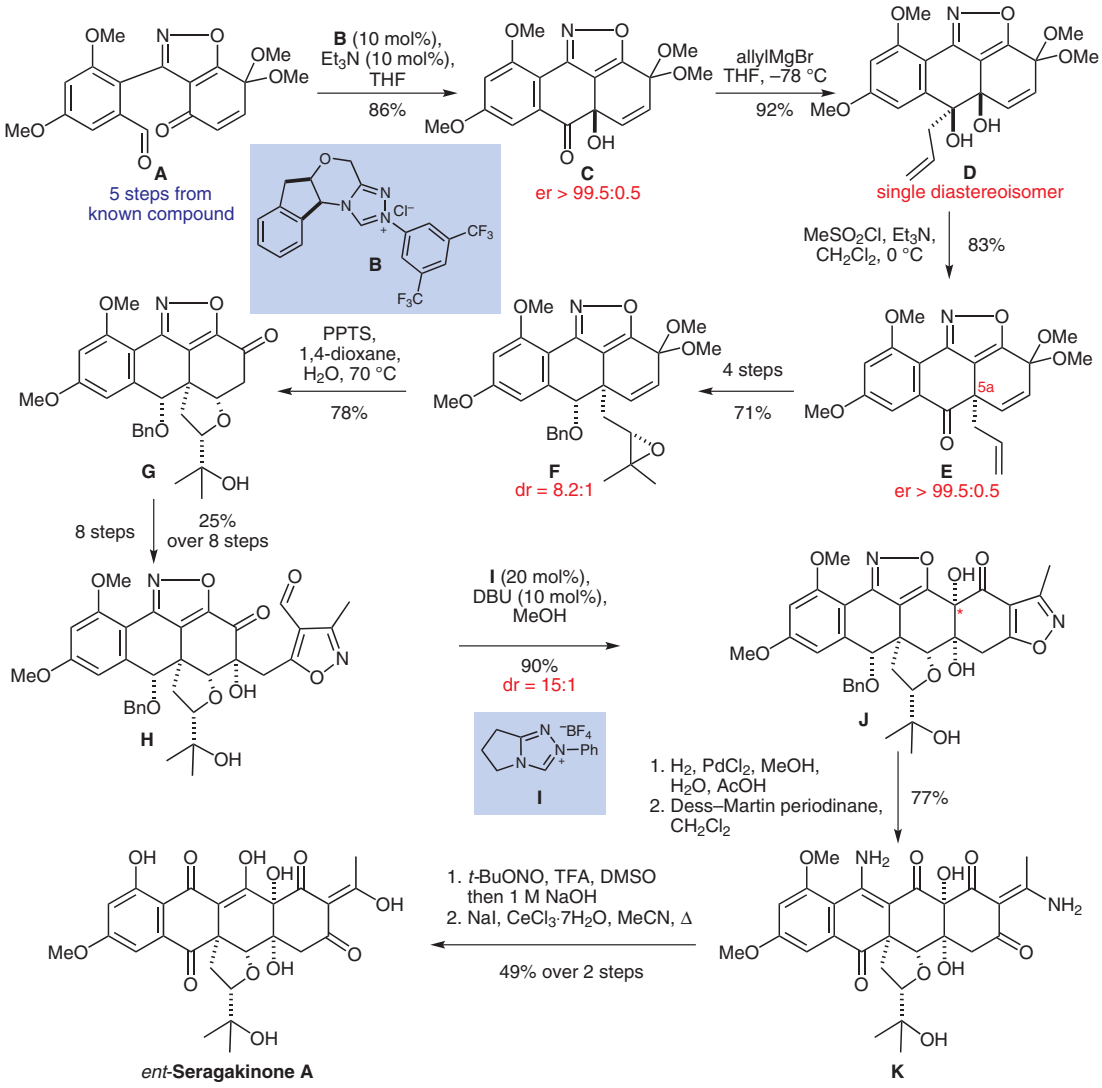
Synthesis of *ent*-Seragakinone A



Significance: Seragakinone A was isolated from an unidentified marine fungus, which is in symbiosis with rhodophyta *Ceratodictyon spongiosum*, and was shown to exhibit both antifungal and antibacterial properties. The relative structure was determined using X-ray crystal structure analysis and extensive spectroscopic studies; however, the absolute stereochemical configuration was not determined.

Comment: Installation of the stereogenic center at C5a (**D** → **E**) was obtained via a pinacol-type rearrangement, which proceeded rapidly in high yield and with efficient transfer of stereochemistry. The benzoin cyclization to afford ketol **J** installed the stereocenter at C* with excellent diastereoselectivity, which was verified by X-ray crystal structure analysis.

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