



**Significance:** In 2006, Du Bois and Fleming presented the enantioselective synthesis of (+)-saxitoxin, a paralytic agent isolated from oceanic red tides. The bioactivity of (+)-saxitoxin derives from the selective blockage of cations through Na<sup>+</sup> ion channels. It is a highly attractive target for total synthesis due to its tricyclic structure decorated with nitrogen and oxygen atoms.

**Comment:** The synthesis commences with the preparation of cyclic sulfamate D via Rh-catalyzed C–H activation followed by nucleophilic addition of the preformed zinc-acetylide species to N,O-acetal A. AgNO<sub>3</sub> initiates guanidine formation to form the nine-membered heterocycle K as a key intermediate. Alkene ketohydroxylation of K triggers the transannular cyclization to the 5/6 fused bicyclic structure M. From there, (β)-saxitoxinol and (+)-saxitoxin are accessed.