

Figure S1. Building block and the end products of Shikimate and Acetate Polymalonate Pathway, Menadione & Juglone and 7-methyl juglone & Plumbagin respectively.

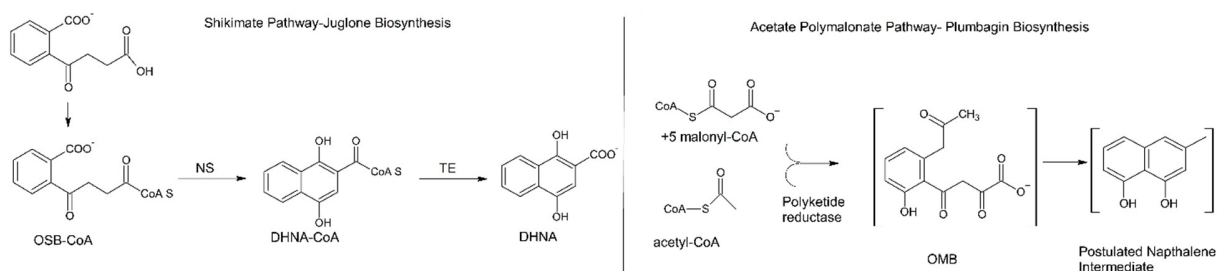


Figure S2. Similar intermediates in Juglone and Plumbagin Biosynthesis; NS – Naphthoate Synthase; TS – Thioesterase

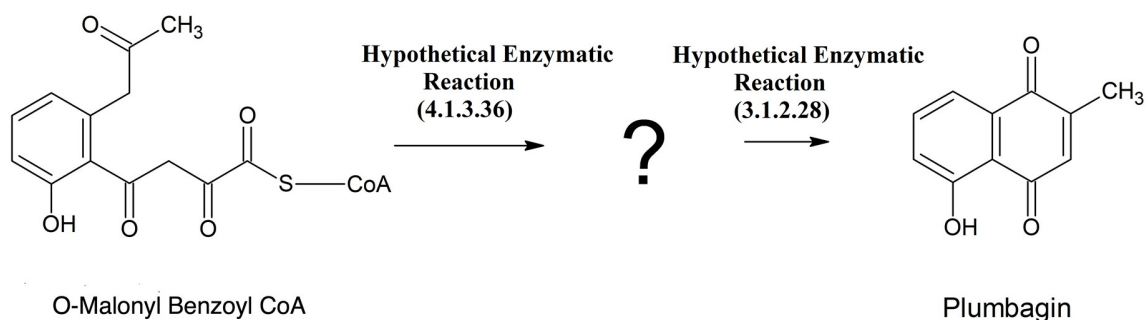


Figure S3. Hypothetical Enzyme Reaction for Biosynthesis of Plumbagin. Formation of plumbagin from OMB CoA in two reaction steps

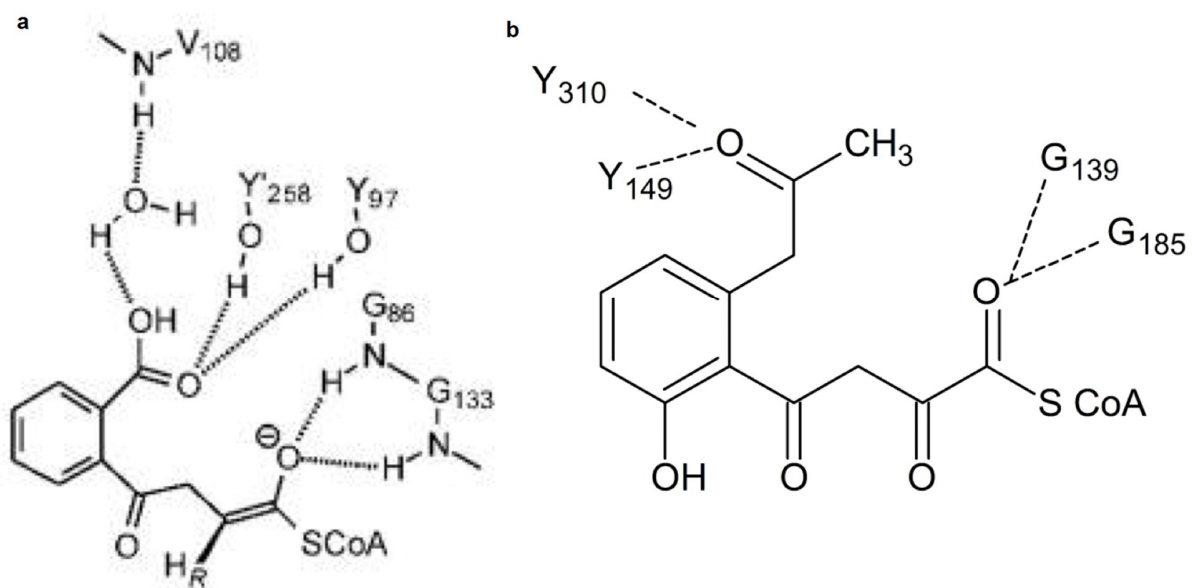


Figure S6. Docked conformations of **A.** NS with OSBCoA as reported by Li, HJ et al., 2011. **B.** NS with OMBCoA as per our studies. **B.** Shows identical interactions with as in A with, Gly and Tyr binding OMBCoA as with OSBCoA as in JBP