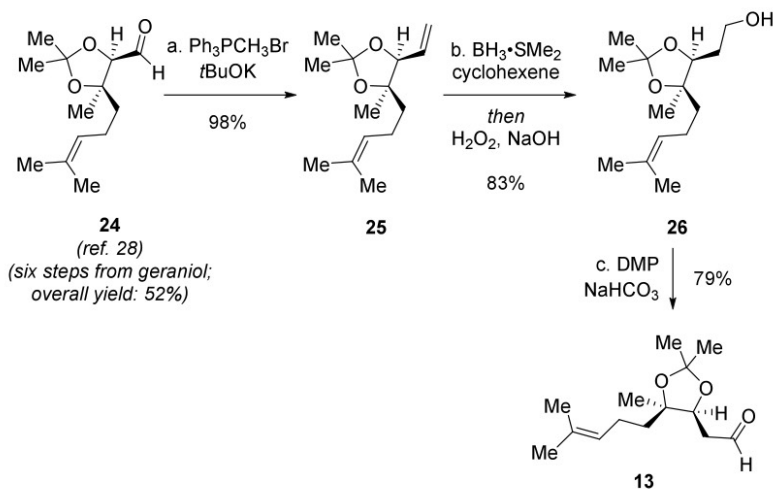
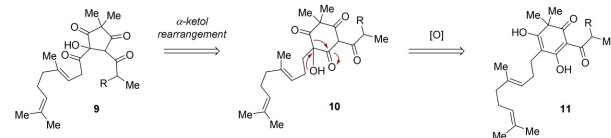


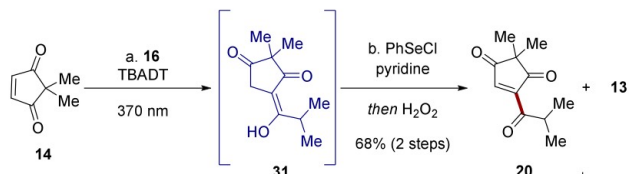
cross-dehydrogenative coupling (CDC) reaction between an aldehyde and an electron-deficient olefin



acylfilcinic acid derivative derived from acylphloroglucinol



radical-mediated hydroacylation

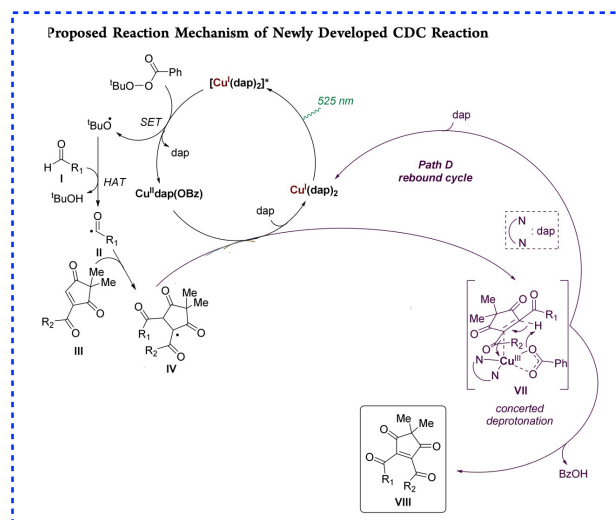
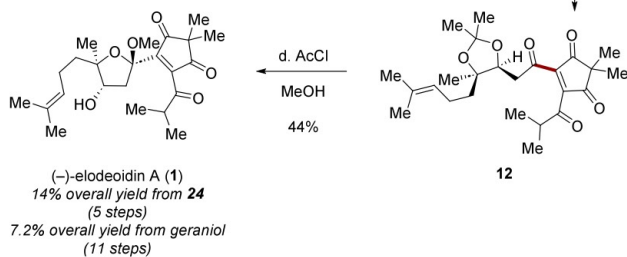


highly electrophilic entrione 20 was incompatible with nucleophilic quinuclidine

entry	Cu catalyst	oxidant	additive	yield (%)
1	$\text{Cu}(\text{dap})_2\text{Cl}$	TBEC	quinuclidine, quinuclidine-HCl	0%
2	$\text{Cu}(\text{dap})_2\text{Cl}$	TBEC	none	24%
3 <sup>c</sup>	$\text{Cu}(\text{dap})_2\text{PF}_6$	TBPB	none	49%

Reactions are conducted in  $\text{CH}_3\text{CN}$  at 23 °C under 525 nm irradiation.

optimized



The natural sample of elodeoidin B contains (-)-(8S)-elodeoidin B (2a) as the major component, with

