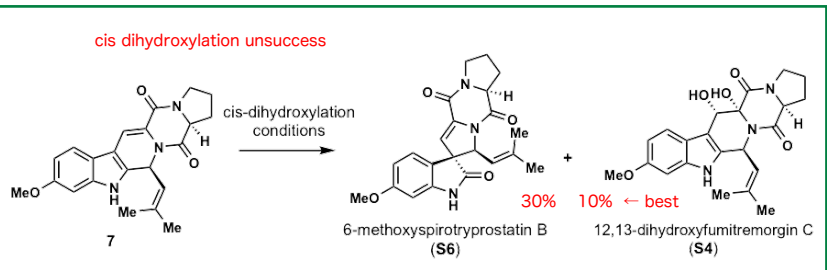
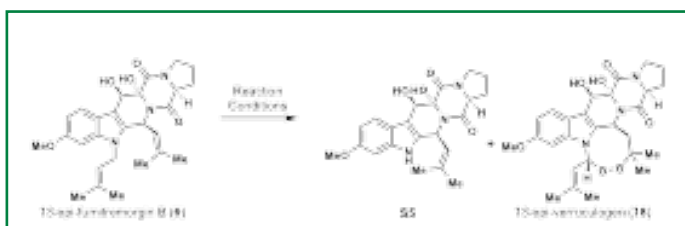
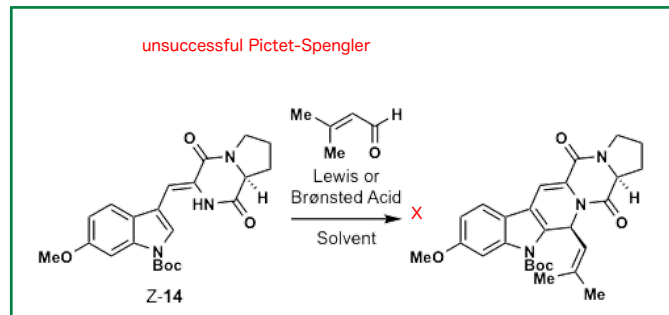
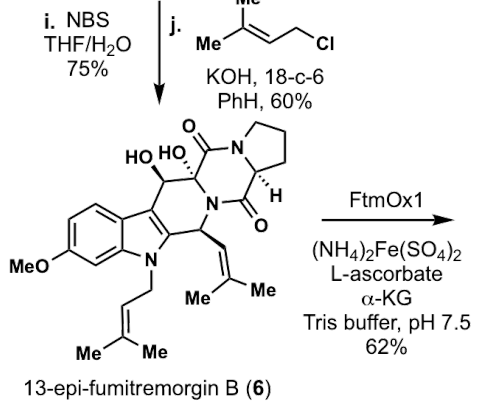
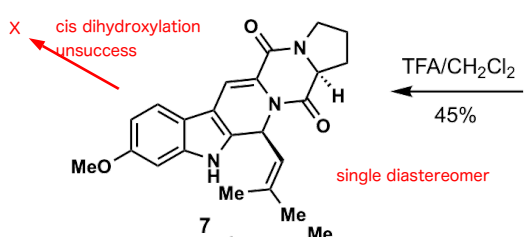
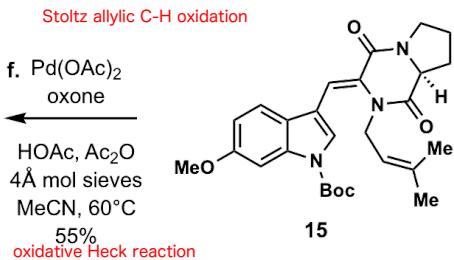
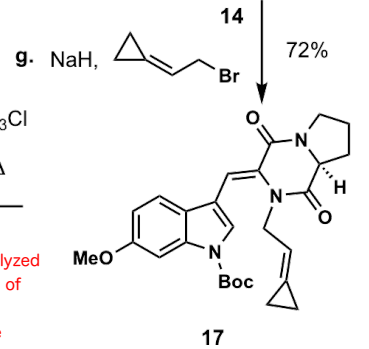
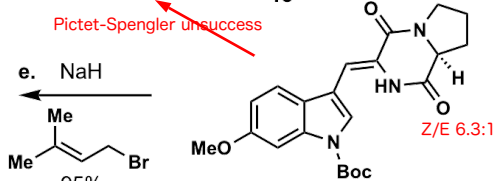
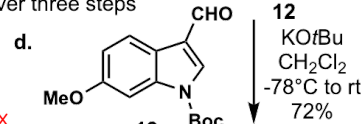
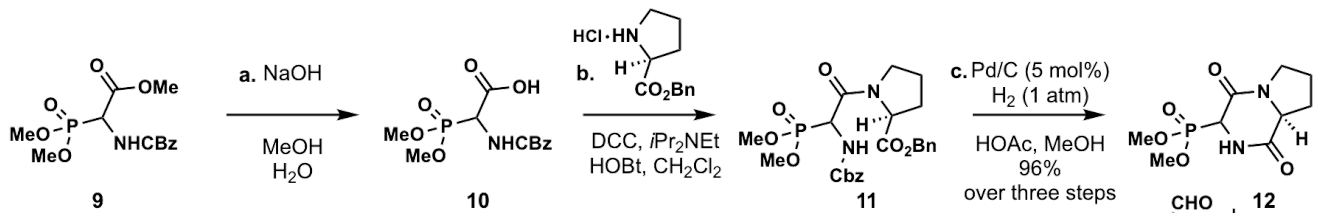
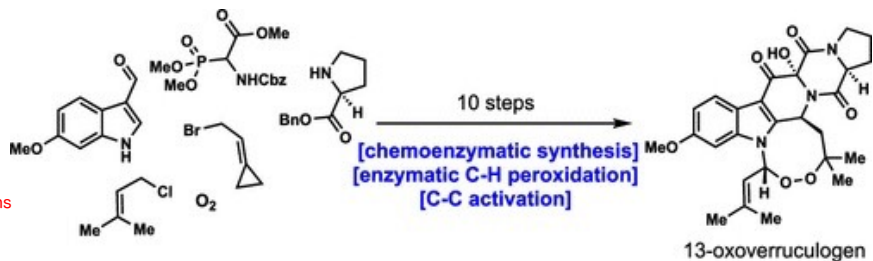


endoperoxide enzymatic C-H peroxidation
 hybrid approach utilizing biocatalytic and transition metal catalyzed reactions



	L-ascorbate	pH		
11	FtmOx1 (10 mol%), air, α -KG L-ascorbate	NaH ₂ PO ₄ , pH 7.5	No reaction	
12	FtmOx1 (10 mol%), air, α -KG L-ascorbate	100 mM Tris Buffer	2	9
13	FtmOx1 (10 mol%), air, α -KG L-ascorbate, 37 °C	100 mM Tris Buffer	ND	19
14	FtmOx1 (10 mol%), air, α -KG L-ascorbate, (NH ₄) ₂ Fe(SO ₄) ₂	100 mM Tris Buffer	ND	28
15	FtmOx1 (10 mol%), air, α -KG L-ascorbate, (NH ₄) ₂ Fe(SO ₄) ₂ , 37 °C	100 mM Tris Buffer	7	62
16	FtmOx1 (100 mol%), air, α -KG (NH ₄) ₂ Fe(SO ₄) ₂ , 37 °C (single turnover, No L-ascorbate)*	100 mM Tris Buffer	0	0