

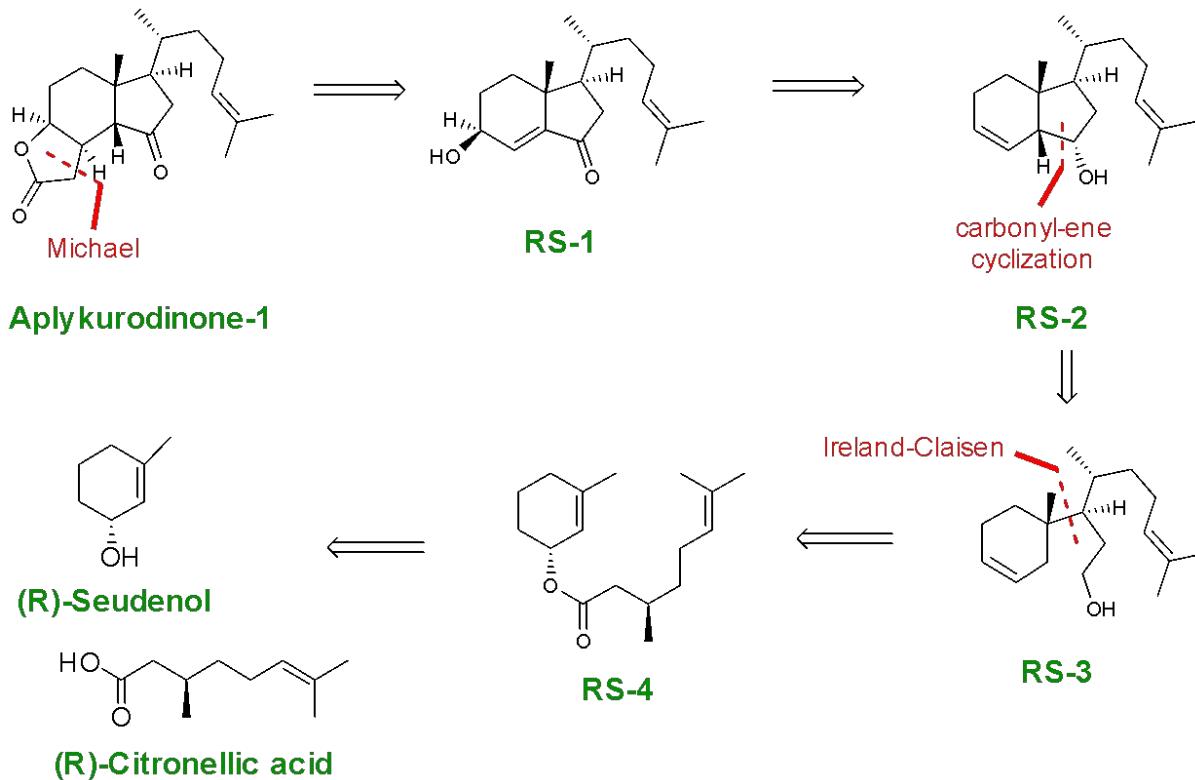
СИНТЕЗ (+)-APLYKURODINONE-1

Вера Дорохова
ВХК РАН, А-41

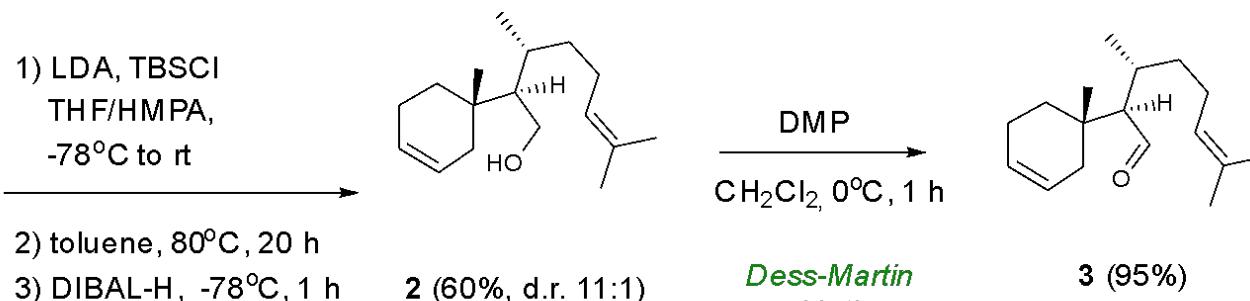
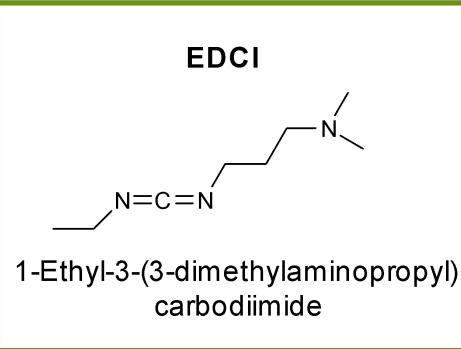
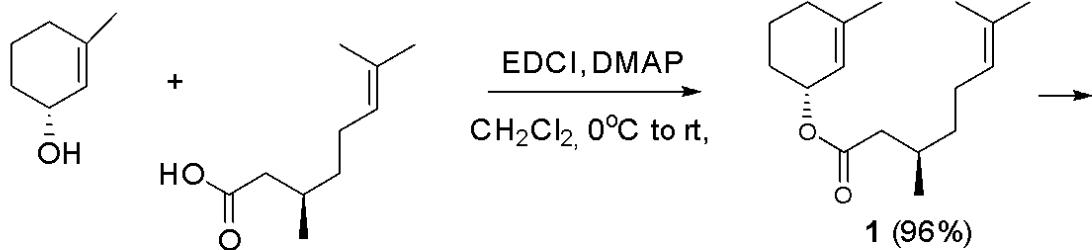
SIPHONOTA GEOGRAPHICA



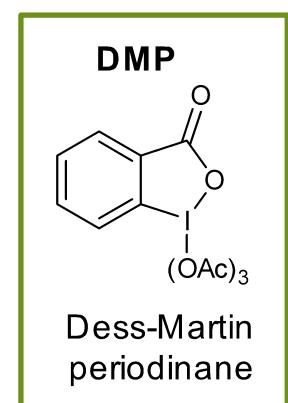
РЕТРОСИНТЕТИЧЕСКИЙ АНАЛИЗ



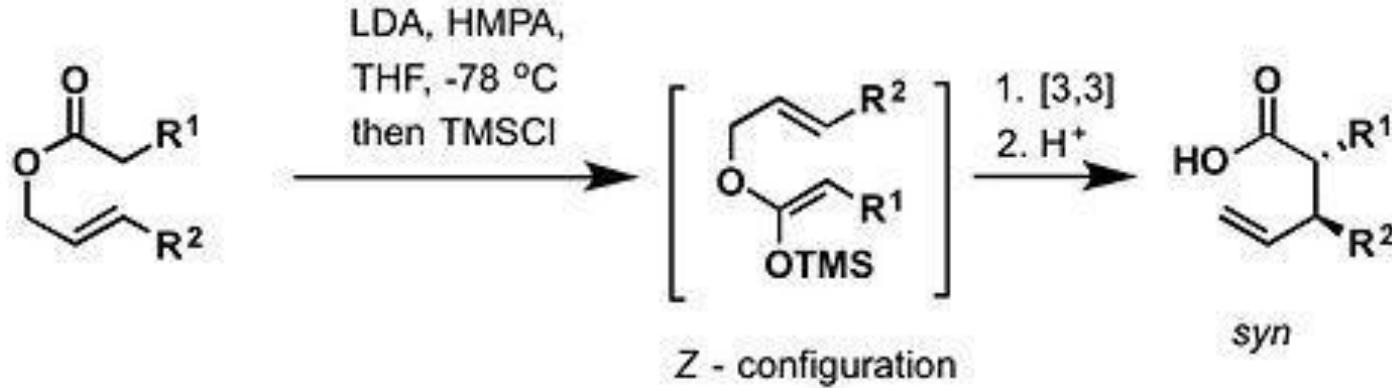
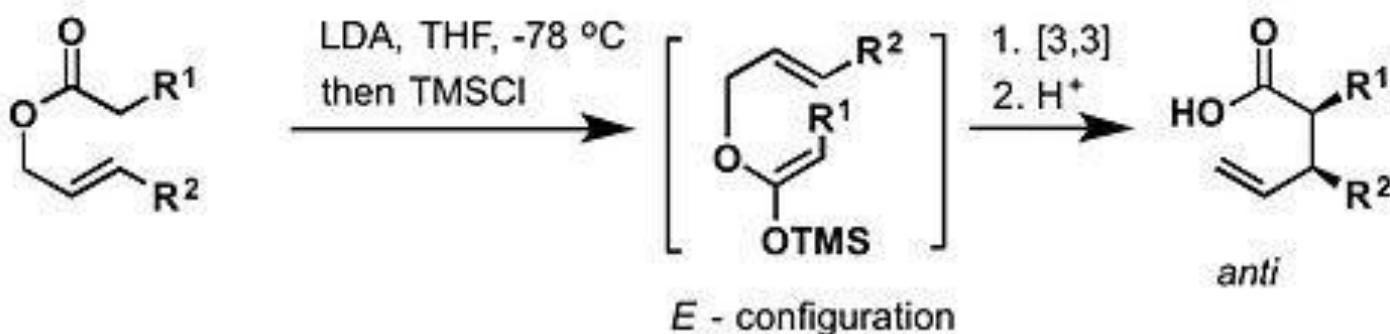
СИНТЕЗ



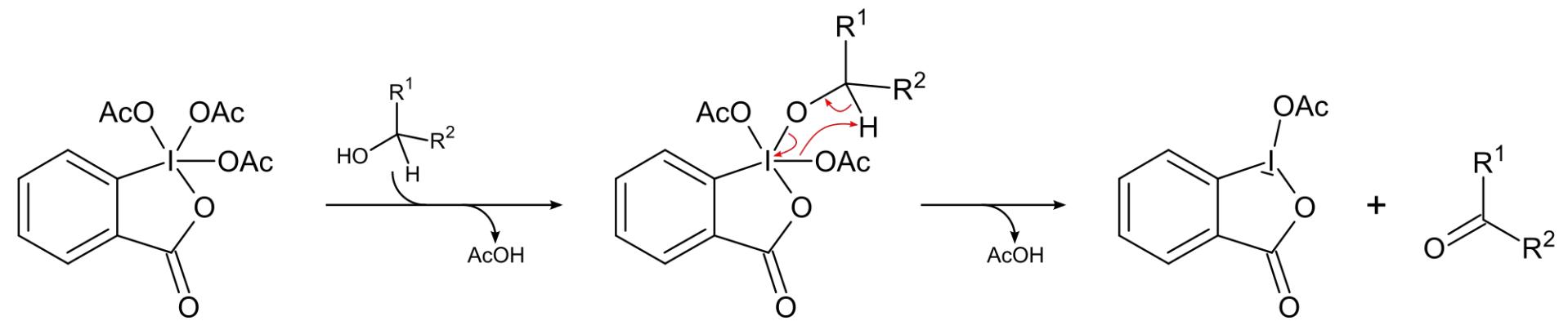
*enolation +
Ireland-Claisen +
reduction of the silyl ester*

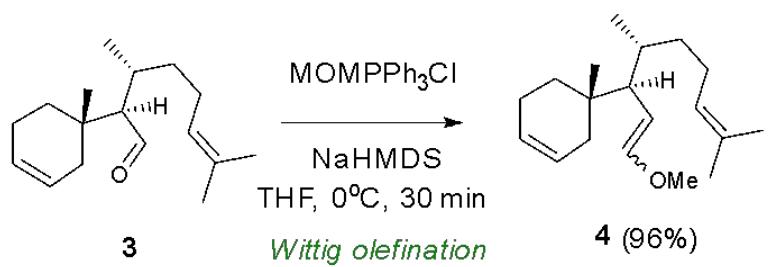


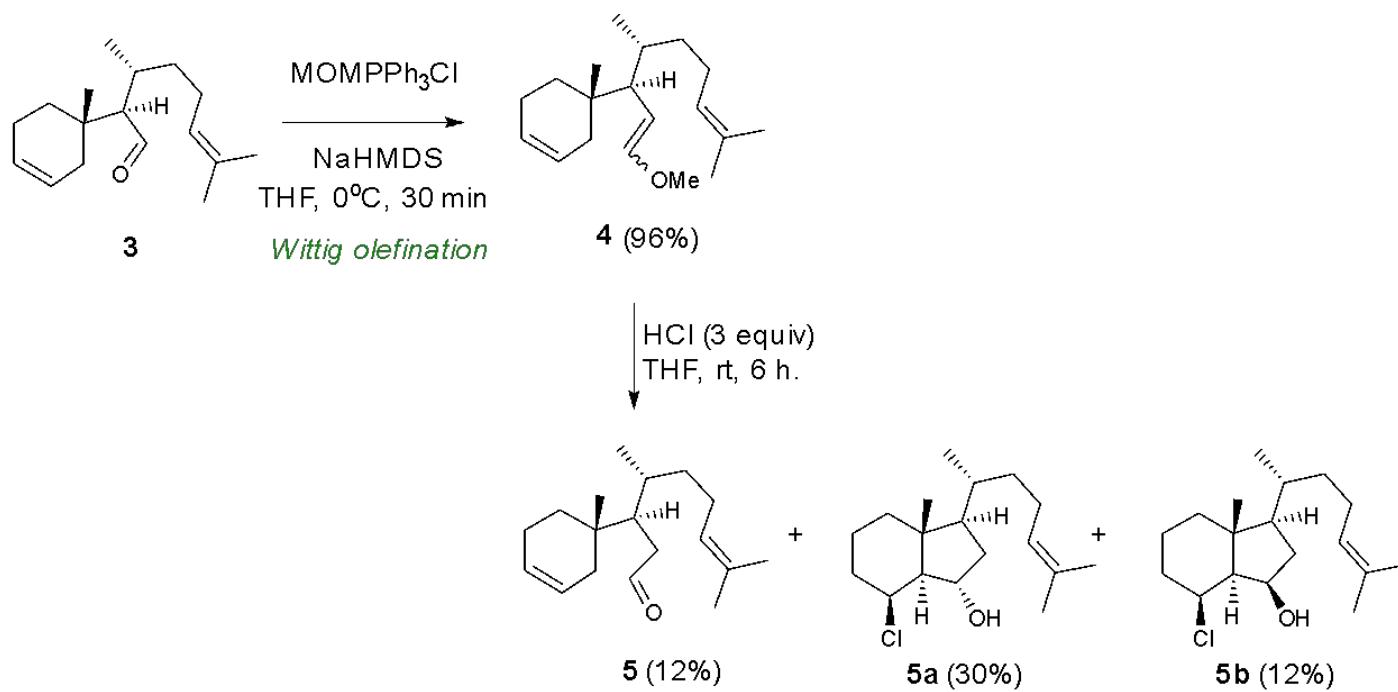
IRELAND-CLAISEN REARRANGEMENT

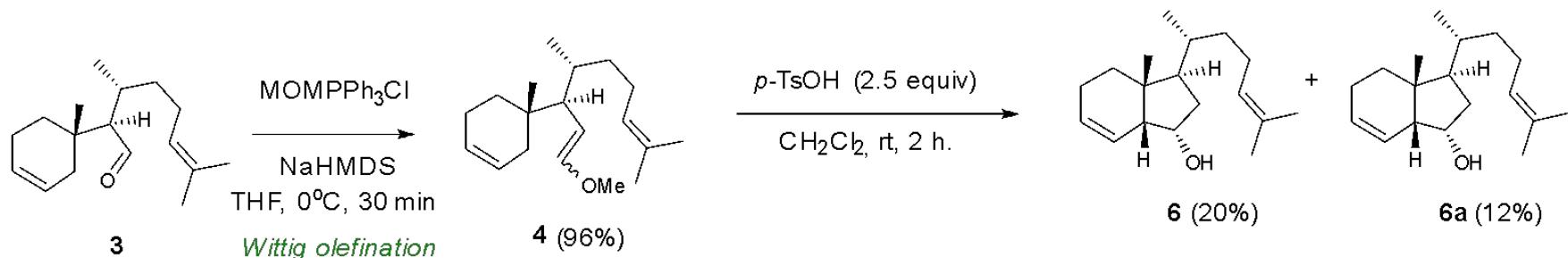


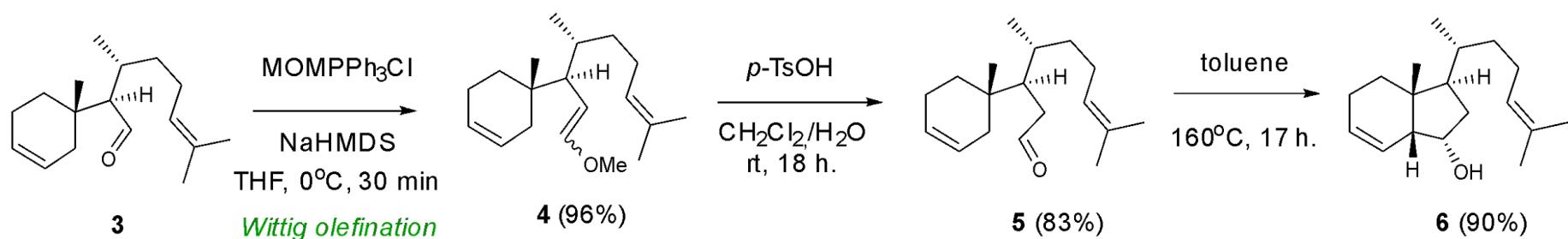
DESS-MARTIN OXIDATION

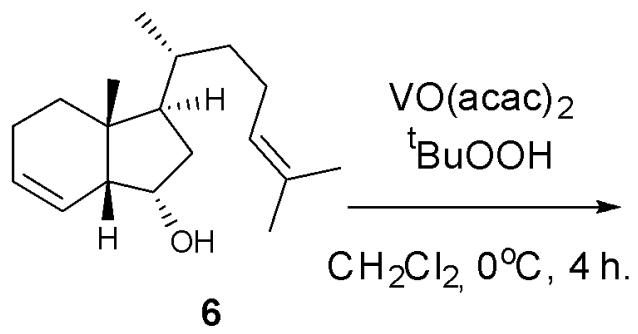




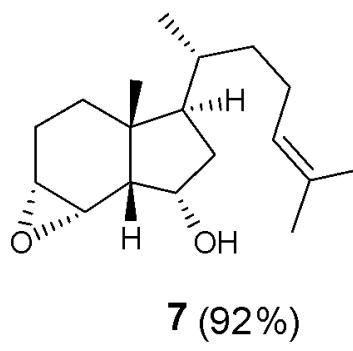




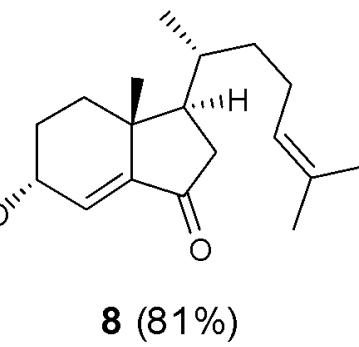


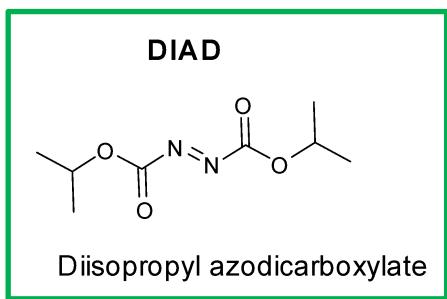
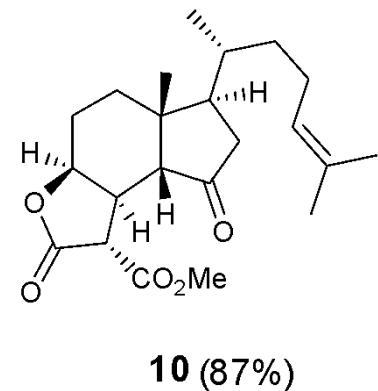
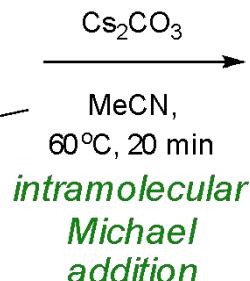
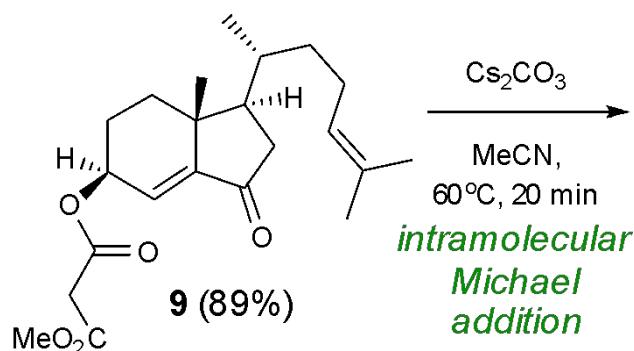
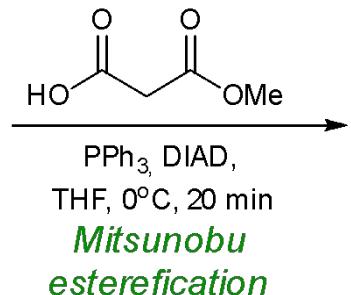
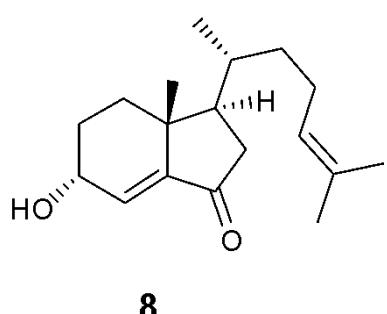


$\text{VO}(\text{acac})_2$
 $t\text{BuOOH}$
 $\text{CH}_2\text{Cl}_2, 0^\circ\text{C}, 4 \text{ h.}$

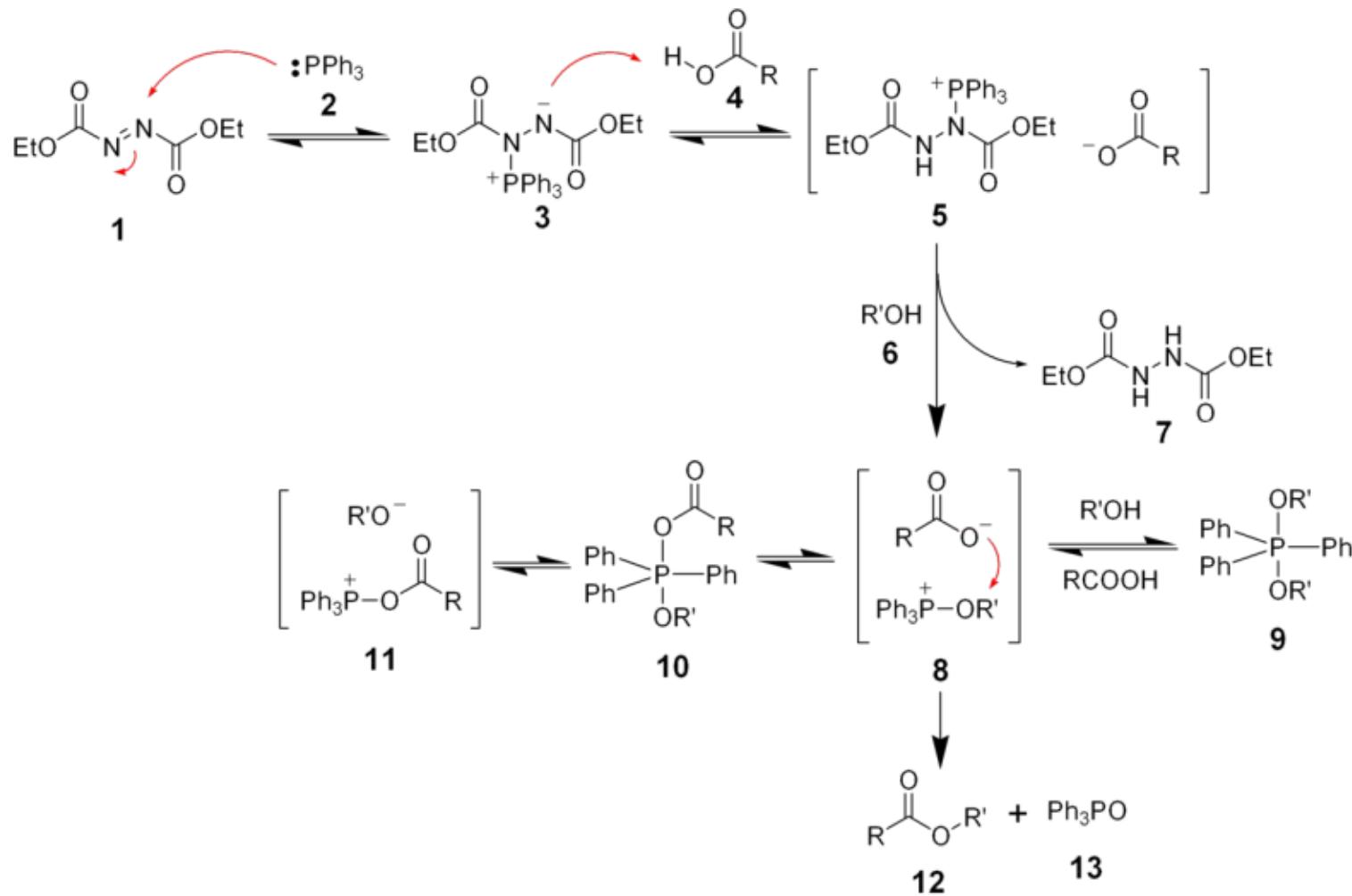


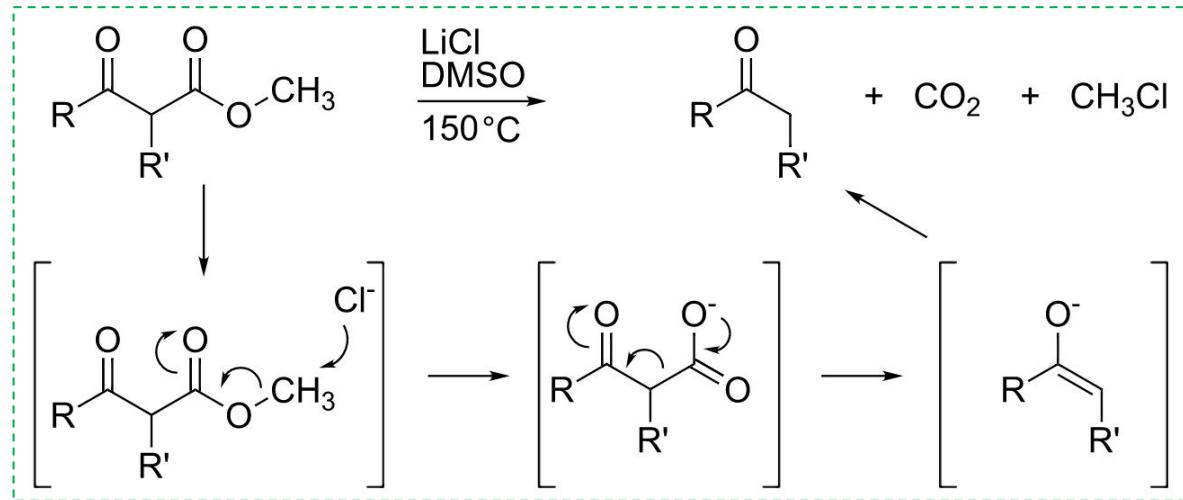
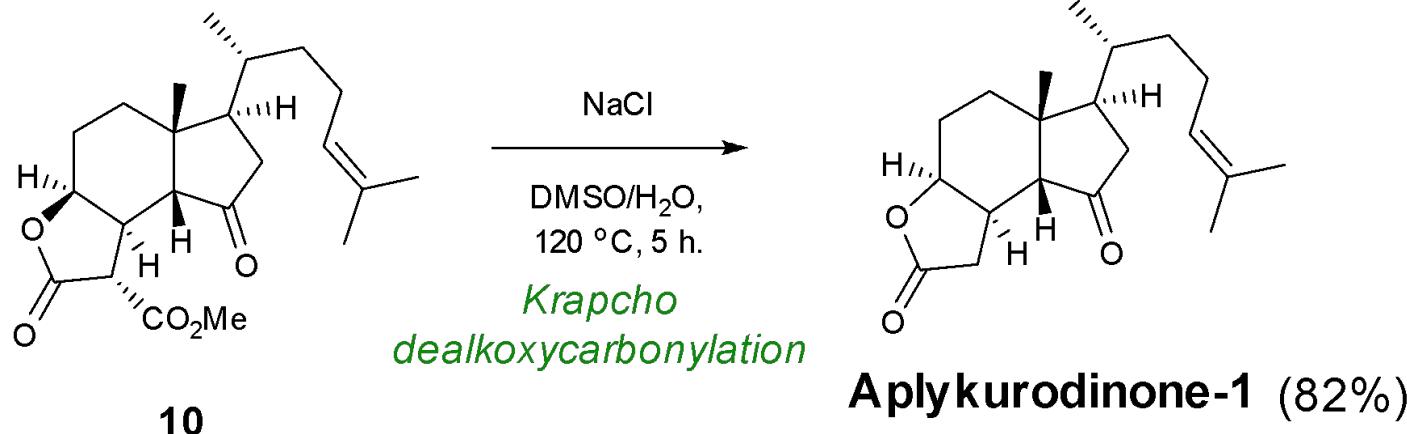
1) DMP, CH_2Cl_2 ,
 $0^\circ\text{C}, 1 \text{ h.}$
2) DBU
Dess-Martin oxidation





IMITSUNOBU ESTERIFICATION





- ✓ 11 steps
- ✓ 19% overall yield
- ✓ Full stereochemical control
- ✓ No protecting groups

СПАСИБО ЗА ВНИМАНИЕ!