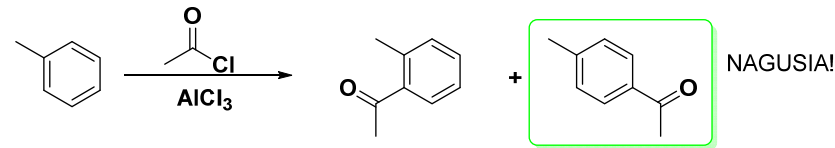
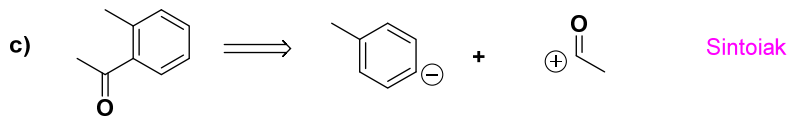
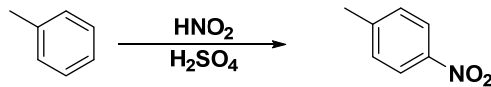
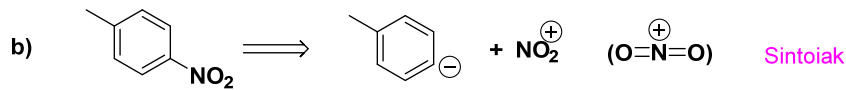
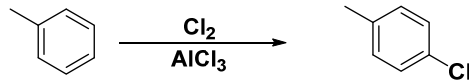
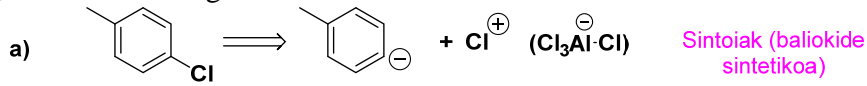


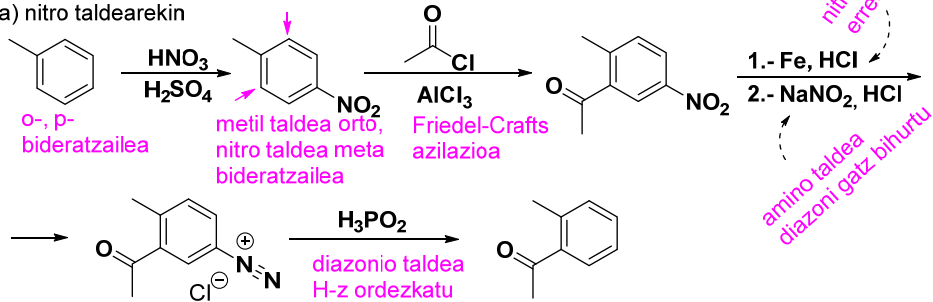
KIMIKA FARMAZEUTIKOA. ARIKETAK (IIIa) **SOLUZIOAK**

1. Toluenetik abiatuta produktu hauek lortzeko ematen diren ordezkapen elektroizale aromatikoetan sintoia, errektiboa eta gertatzen den erreakzioa idatzi.

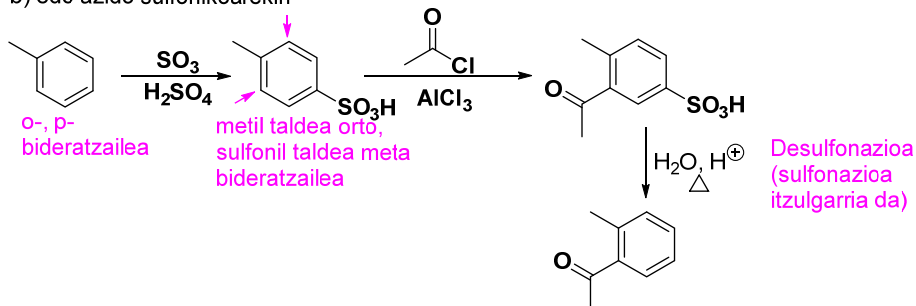


Bestea, nola lortu nagusiki? para posizioa babestuz:

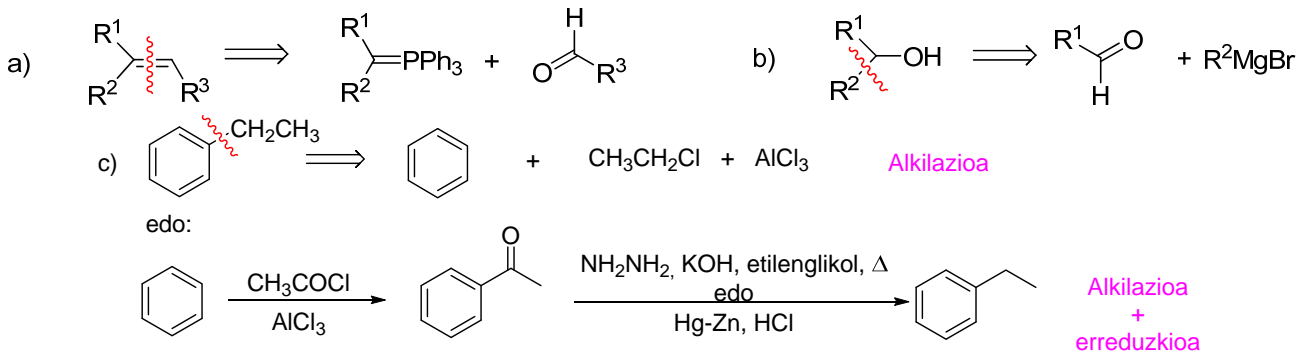
a) nitro taldearekin



b) edo azido sulfonikoarekin

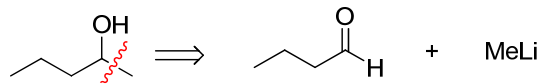


2. Ondorengo konposatuak lortzeko beharrezko diren deskonexioak adierazi, eta dagozkien baliokide sintetikoak idatzi.

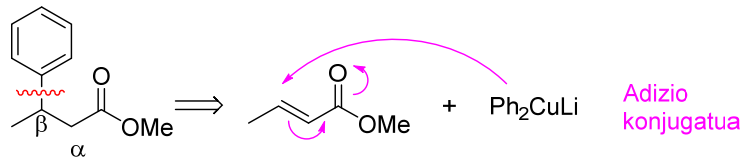


3. Ondorengo konposatuen sintesi bide bat proposatu deskonexio-sintoi metodoa erabiliz:

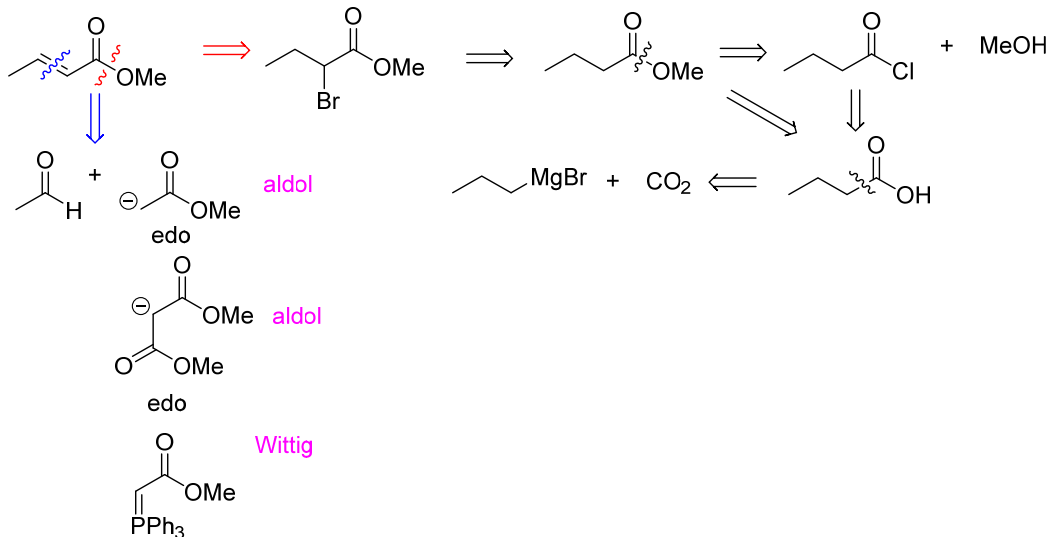
a) pentan-2-ol



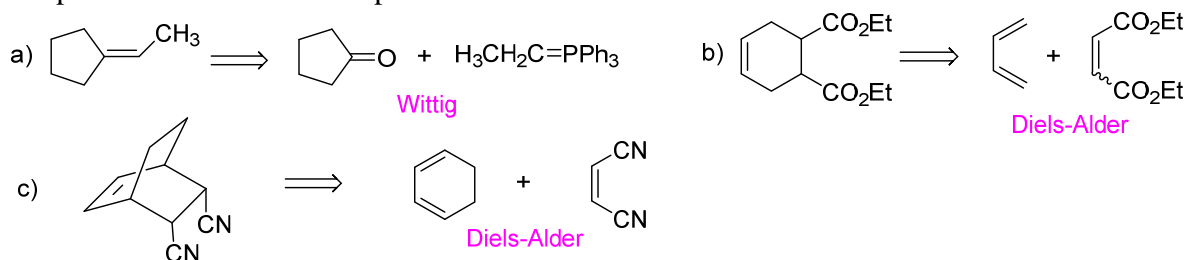
b) metil 3-fenilbutanoato



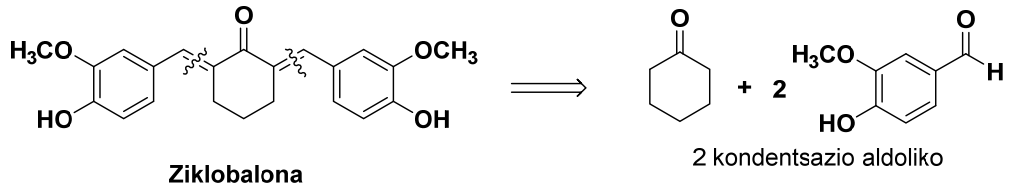
c) metil 2-butenoato



4. Konposatu hauentzat sintesia planifikatu:



5. Ziklobalona agente koleretikoarentzat prestabidea diseina ezazu:



6. Etil 4-oxopentanoatetik abiatuta 5-hidroxi-2-pentanona sintetiza ezazu.

