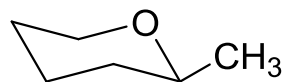
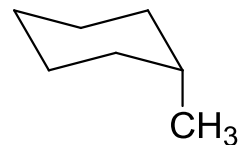




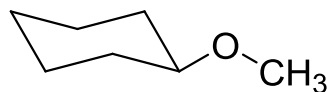
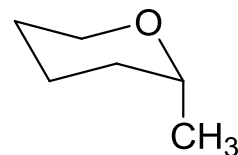
▪ Anomerní efekt



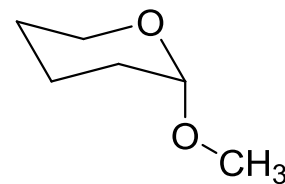
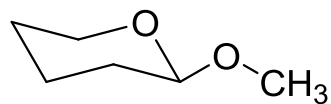
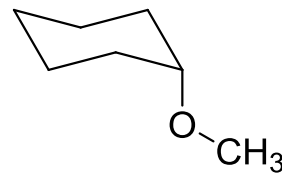
stabilnější



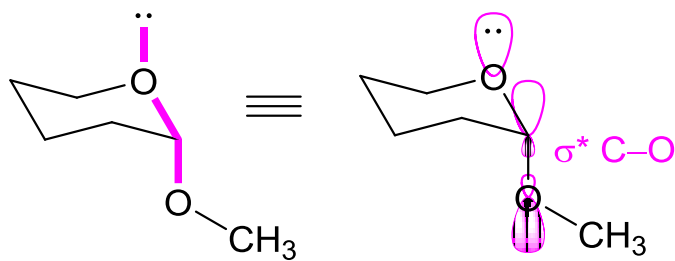
stabilnější



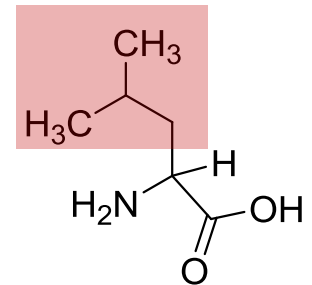
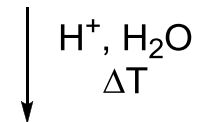
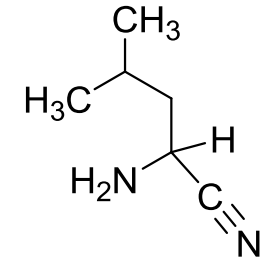
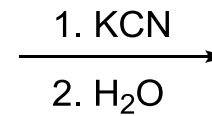
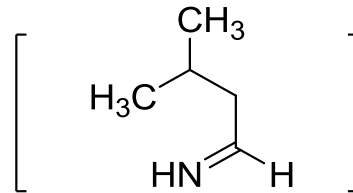
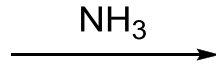
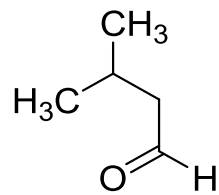
stabilnější



stabilnější

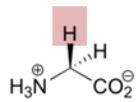
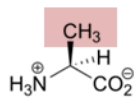
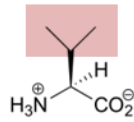
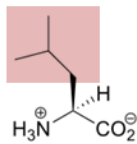
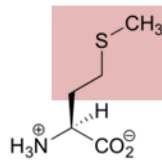
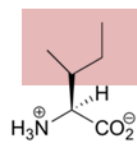


antiperiplanární orientace

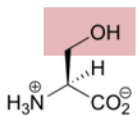
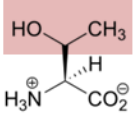
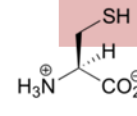
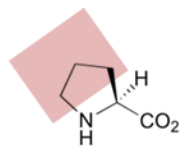
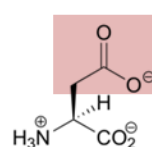
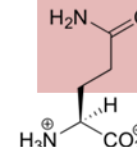


Leucin

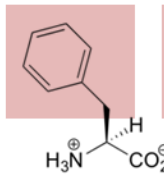
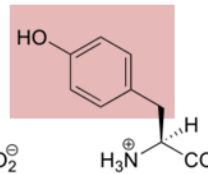
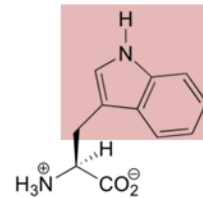
## Nonpolar, aliphatic side groups

Glycine  
Gly, GAlanine  
Ala, AValine  
Val, VLeucine  
Leu, LMethionine  
Met, MIsoleucine  
Ile, I

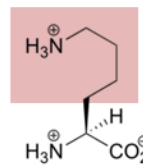
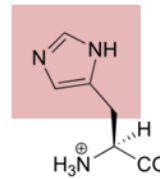
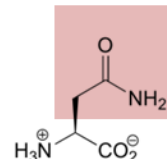
## Polar, uncharged side groups

Serine  
Ser, SThreonine  
Thr, TCysteine  
Cys, CProline  
Pro, PAspartate  
Asp, DGlutamine  
Gln, Q

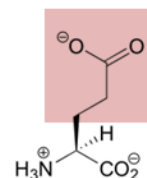
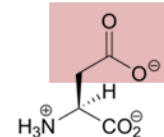
## Aromatic side groups

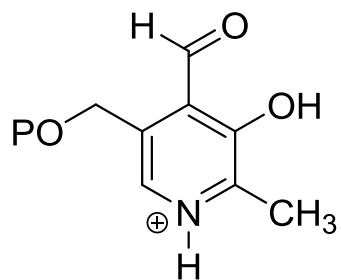
Phenylalanine  
Phe, FTyrosine  
Tyr, YTryptophan  
Trp, W

## Positively charged side groups

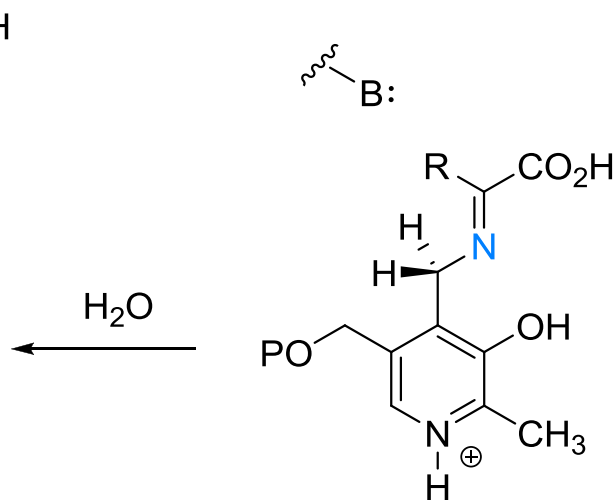
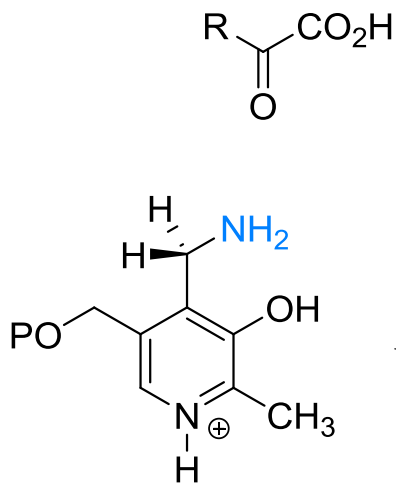
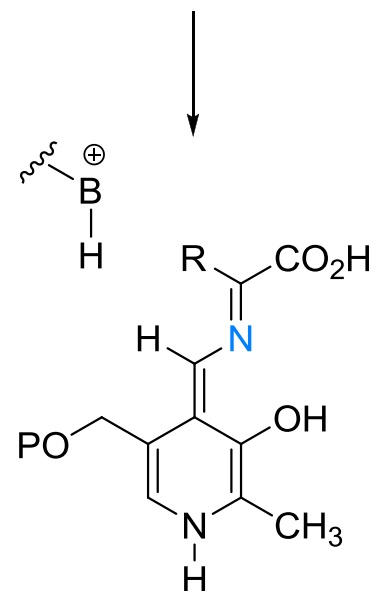
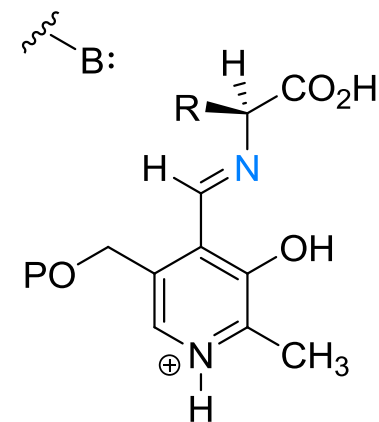
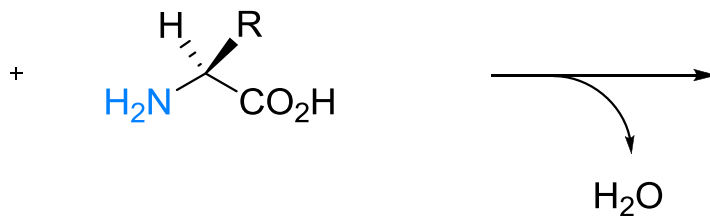
Lysine  
Lys, KHistidine  
His, HAsparagine  
Asn, N

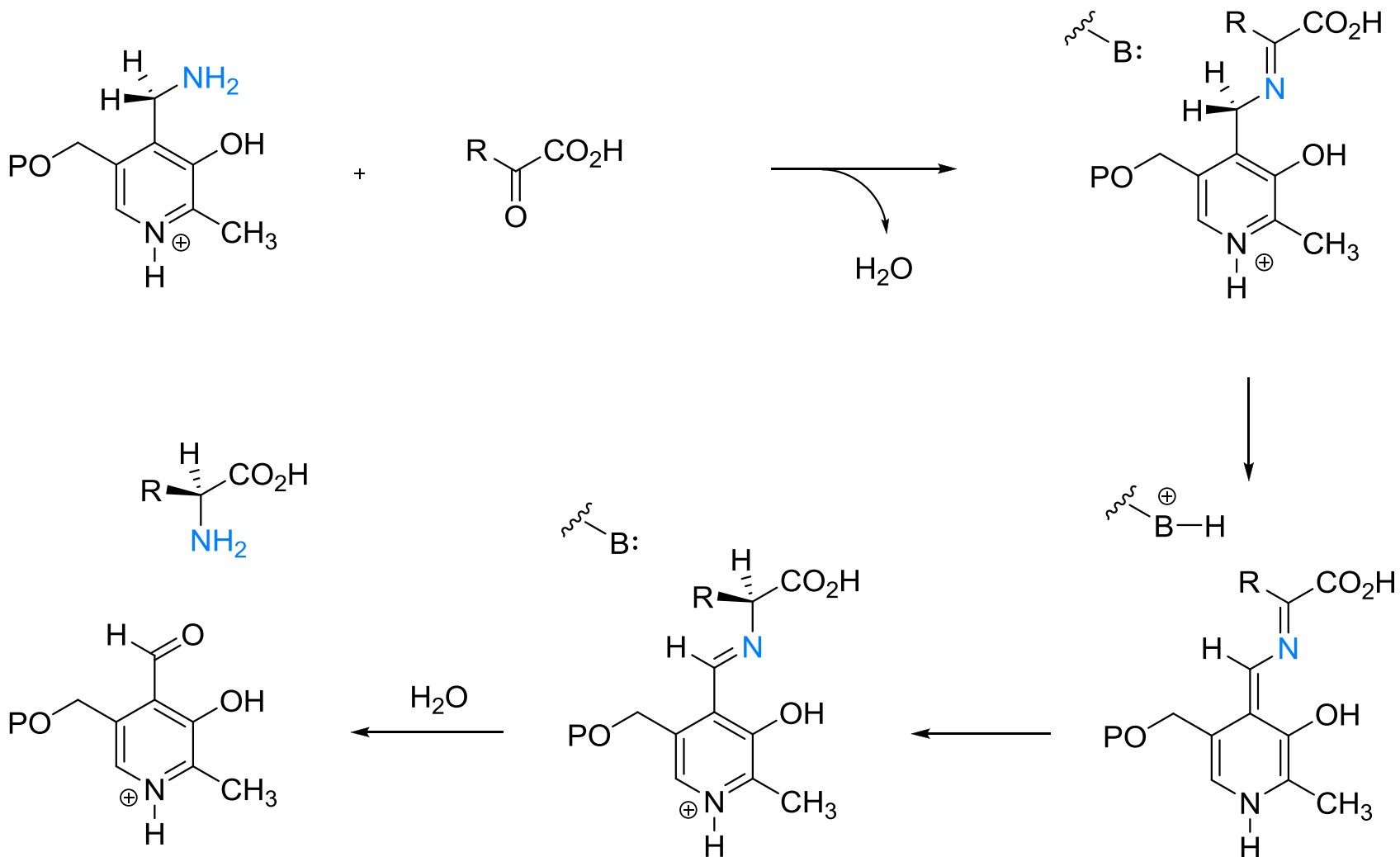
## Negatively charged side groups

Glutamate  
Glu, EAspartate  
Asp, D



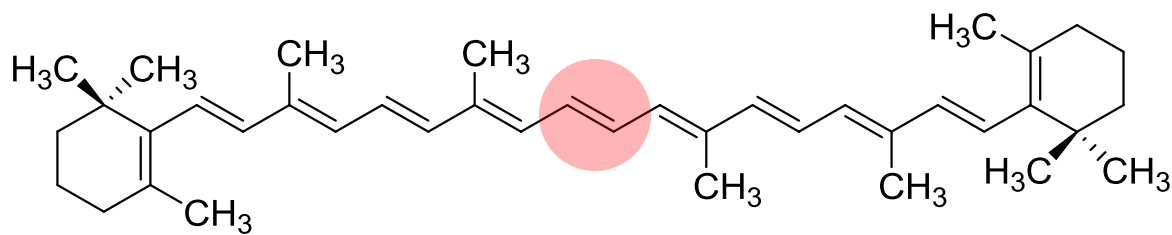
Pyridoxal-5- fosfát  
(‘vitamin B6’)





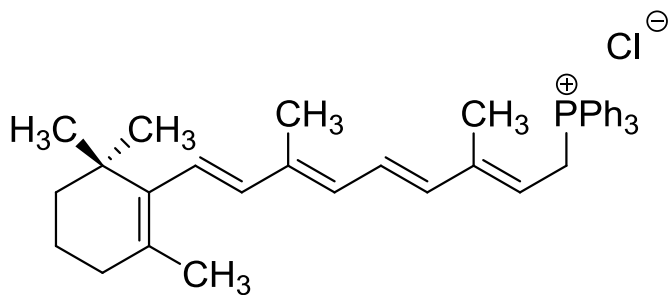
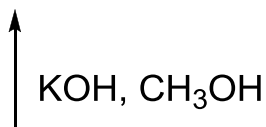


- Aplikace Wittigovy reakce v organické syntéze

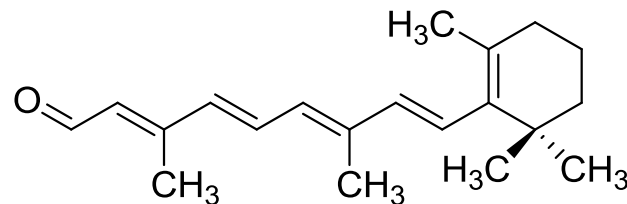


β-karoten

Q: nějaké návrhy?

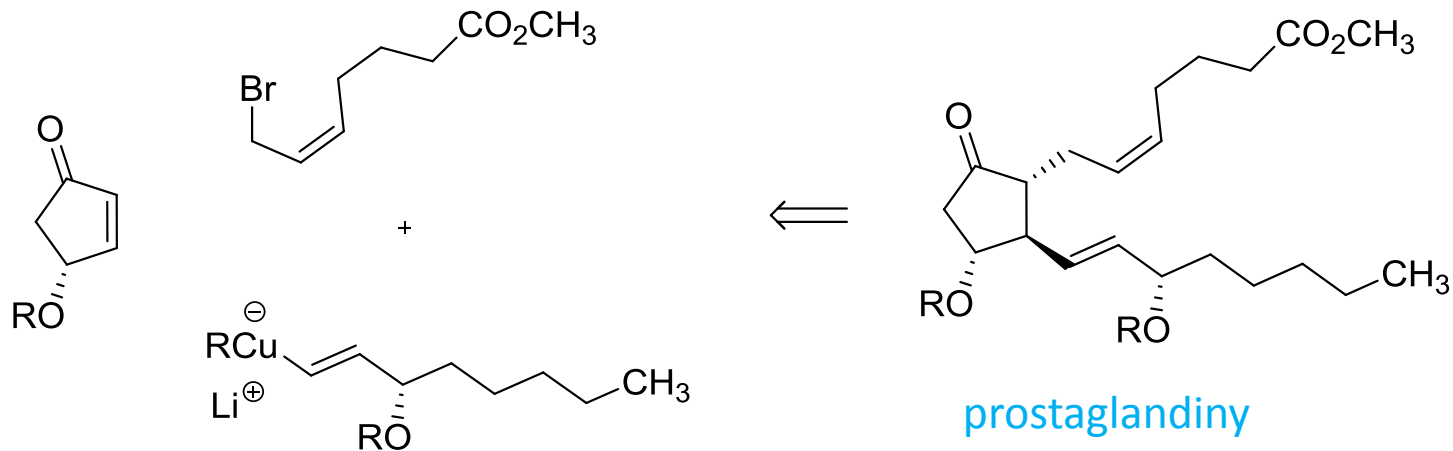


vytvoří 'stabilizovaný ylid'



retinal

Q: jak připravit tuto fosfoniovou sůl?



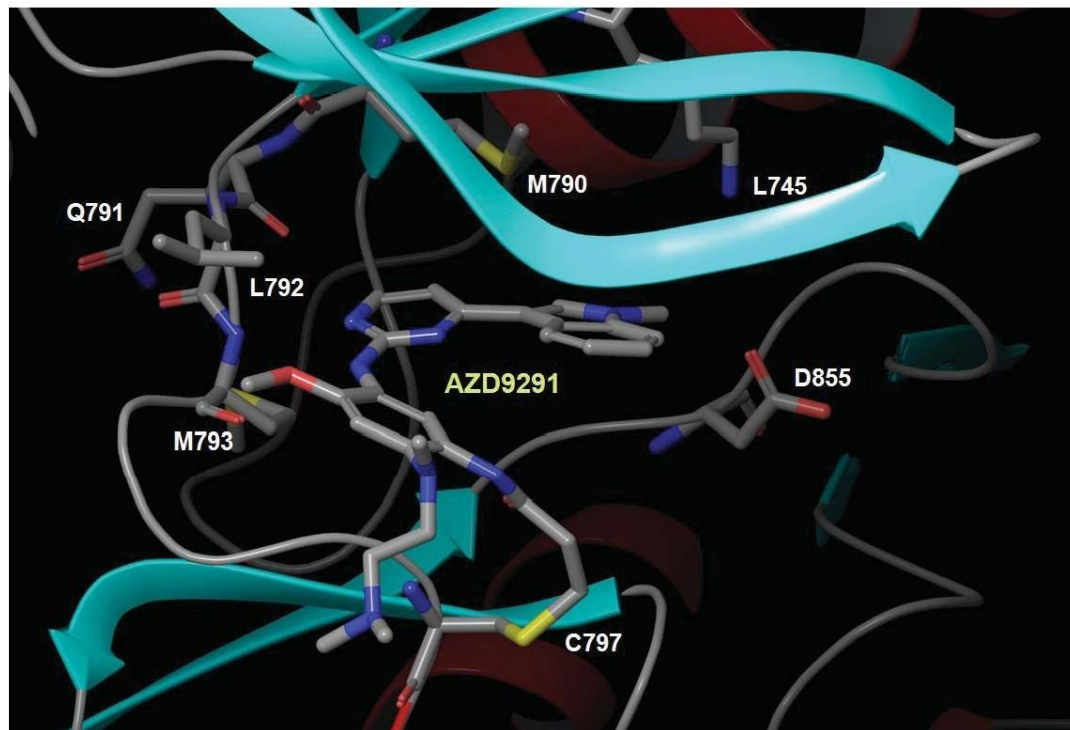
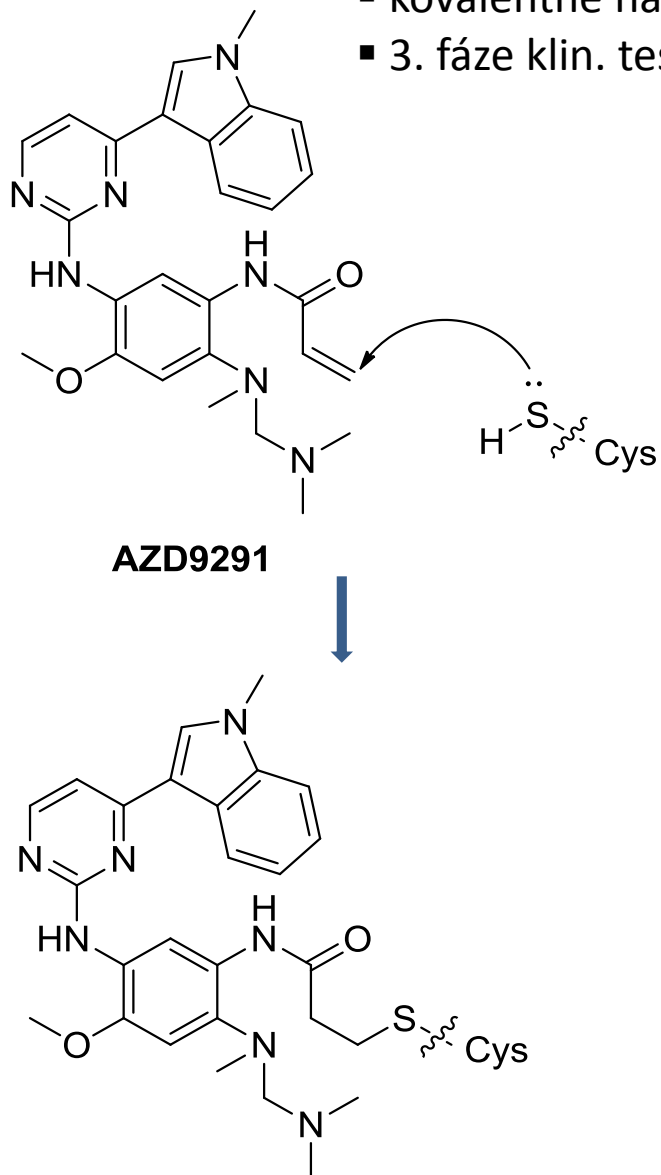
### prostaglandiny

- biosyntéza z mastných kyselin
- široká škála biologických efektů (kontrakce hladkého svalstva)



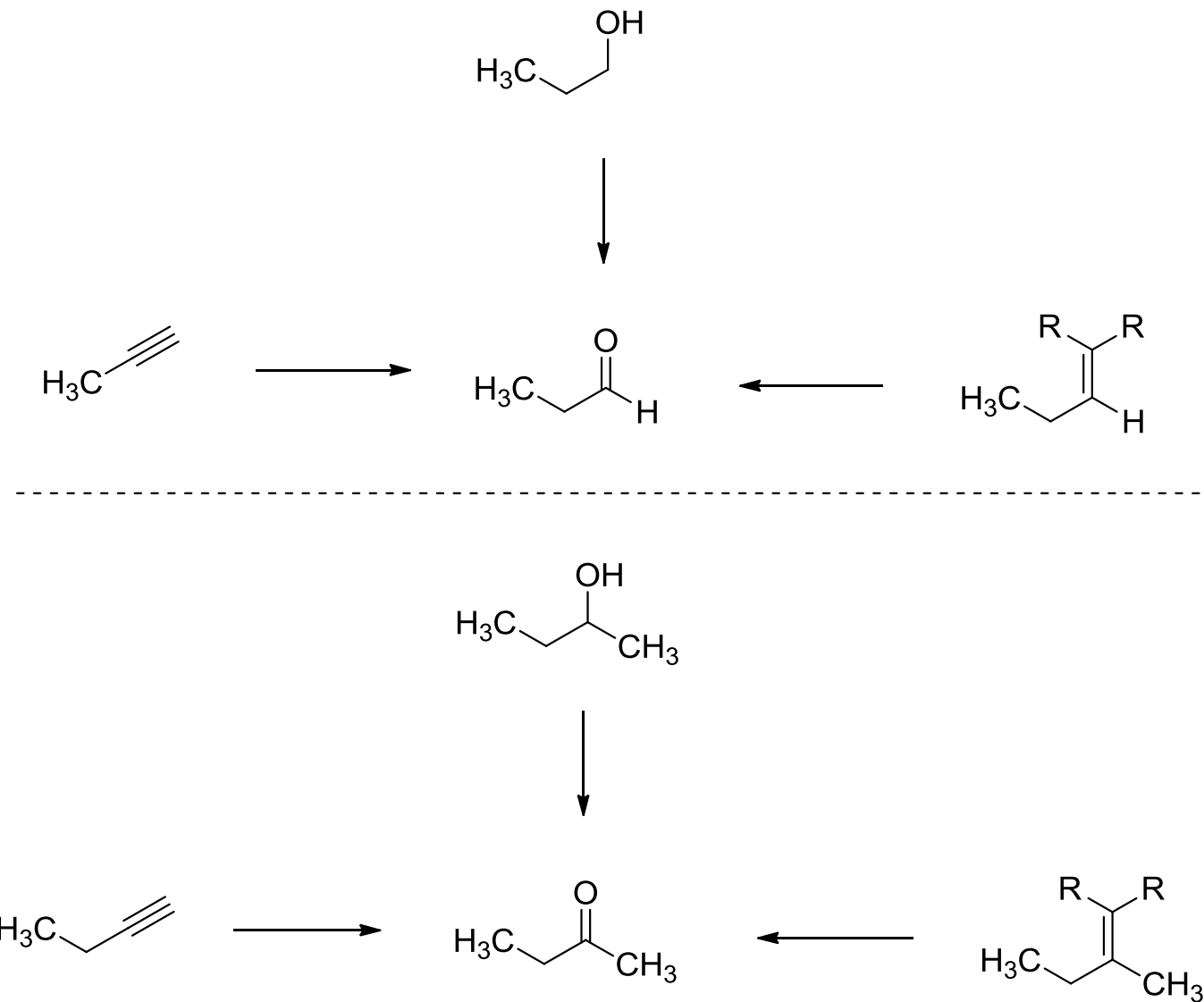
▪ AZD9291: ireverzibilní inhibitor EGFR

- kovalentně navázaný na protein
- 3. fáze klin. testování (nádorová onemocnění)





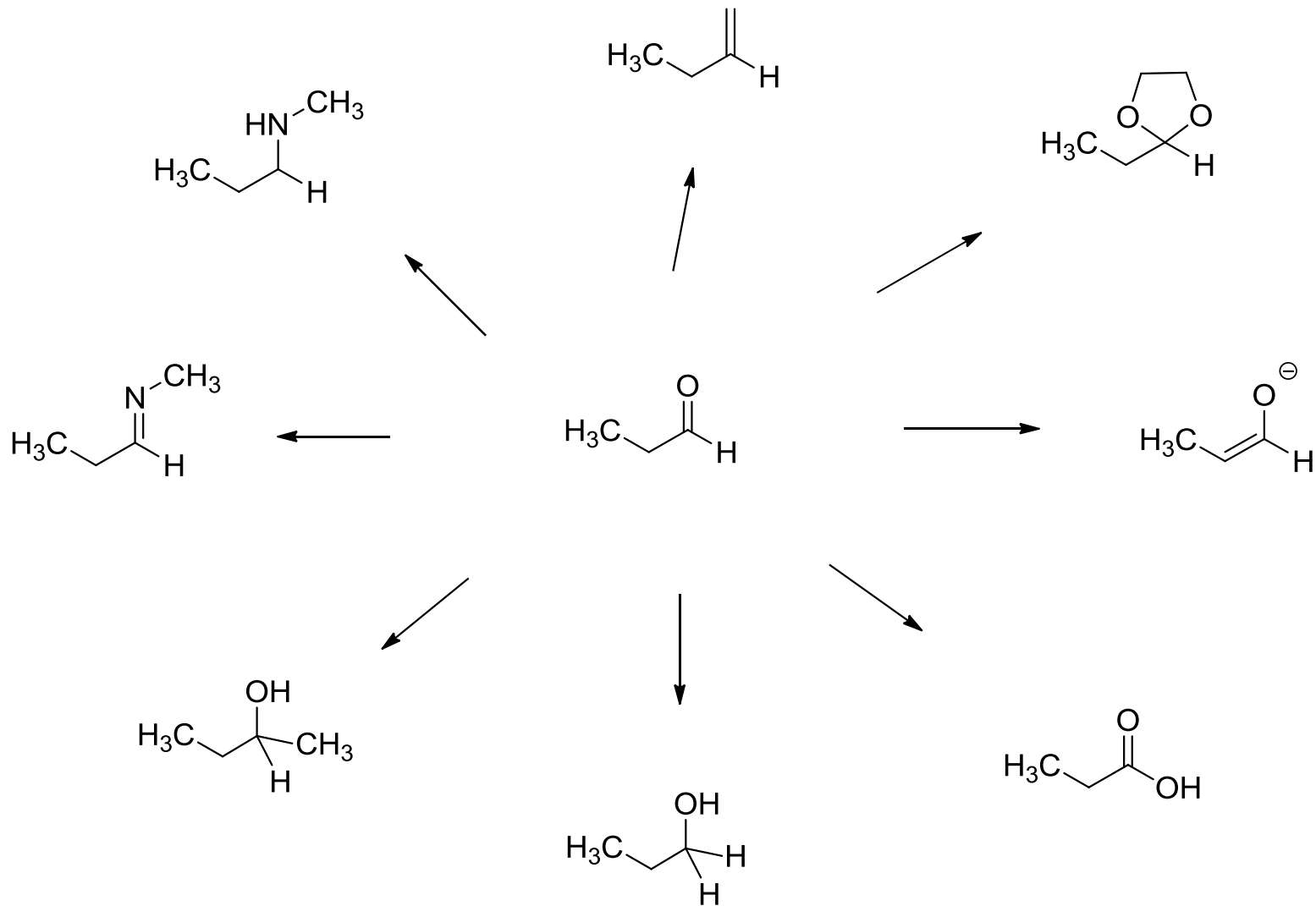
- Přehled základních metod pro přípravu aldehydů a ketonů







## ▪ Přehled vybraných transformací - aldehydy





## ▪ Přehled vybraných transformací - ketony

