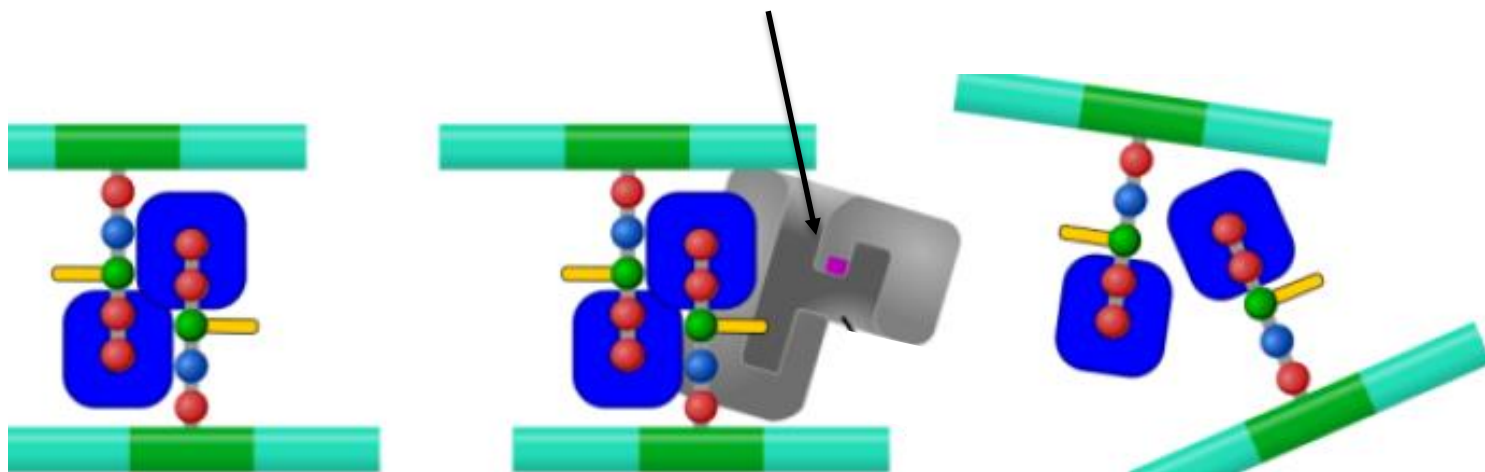
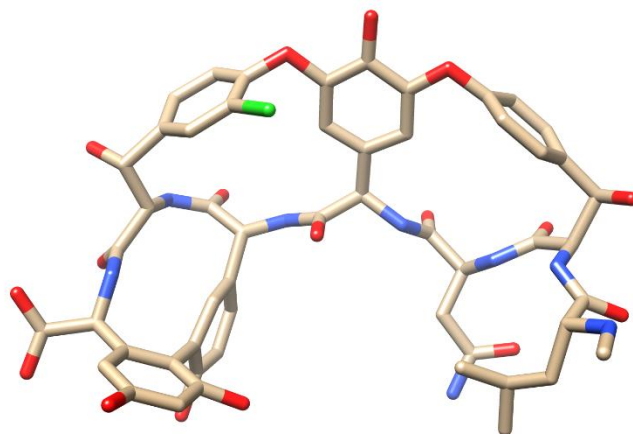


Vancomycin (aglycon)

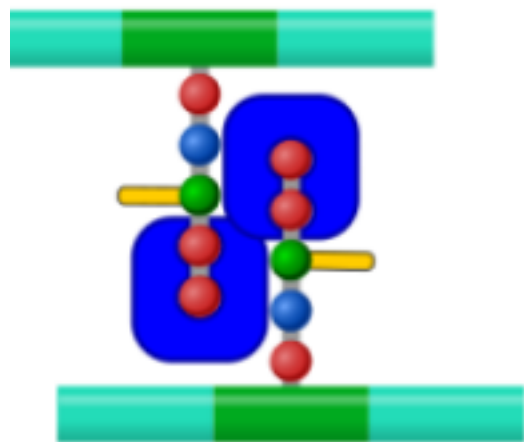
- Vancomycin blokuje přístup enzymu transpeptidázy (syntéza buněčné stěny bakterií)



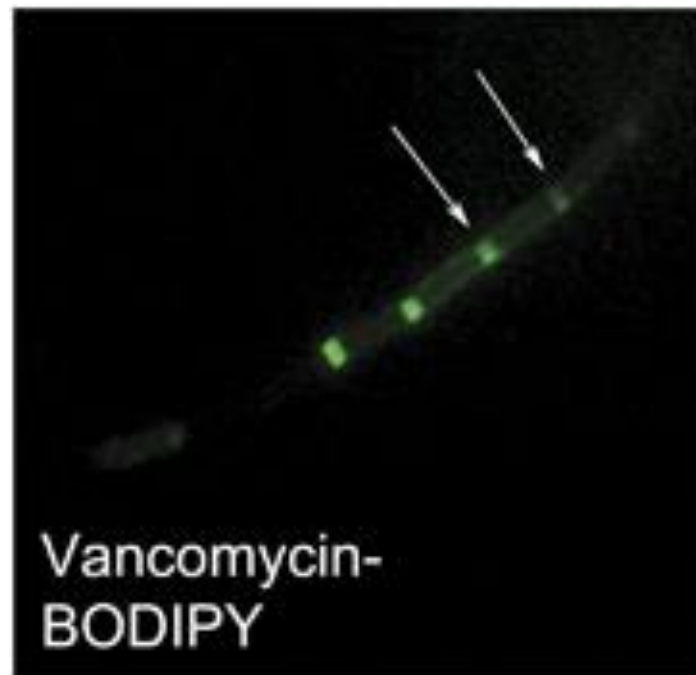


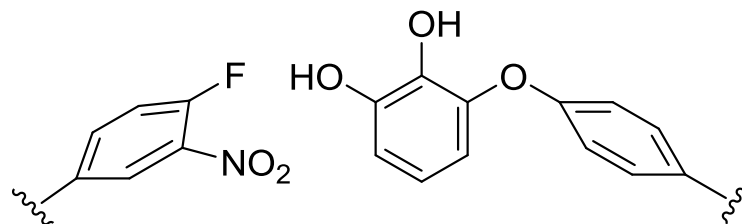
Vancomycin (aglycon)

- Interakce vancomycin – peptidoglykan



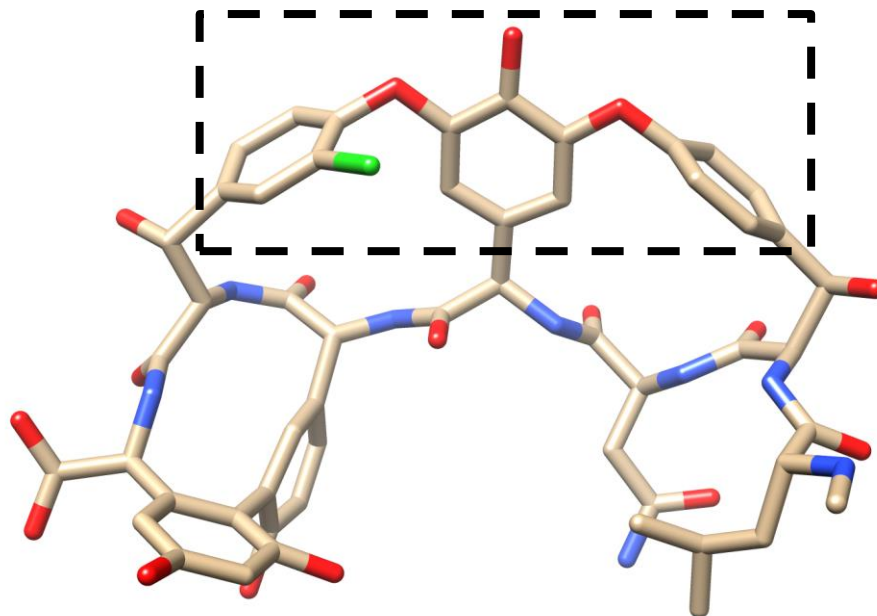
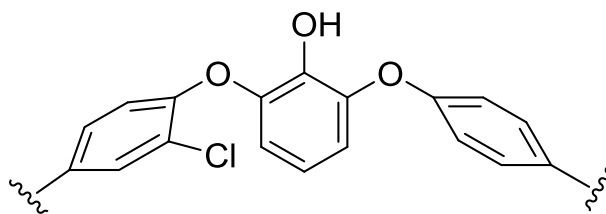
vancomycin v bakteriální membráně





1. CsF (baze)
2. Zn, AcOH
3. NaNO₂, H⁺
4. CuCl

1. Aromatická nukleofilní substituce
2. Redukce NO₂ na NH₂
3. Tvorba diazoniové soli
4. Substituce diazoniové skupiny

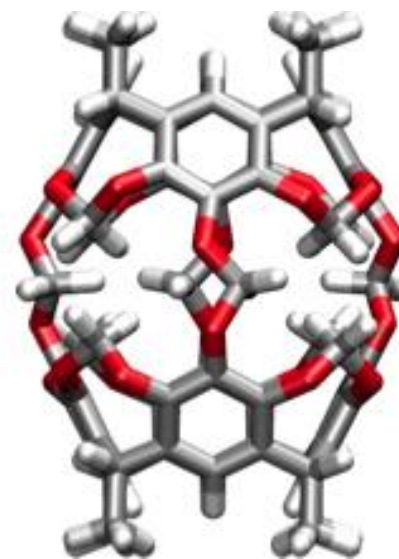
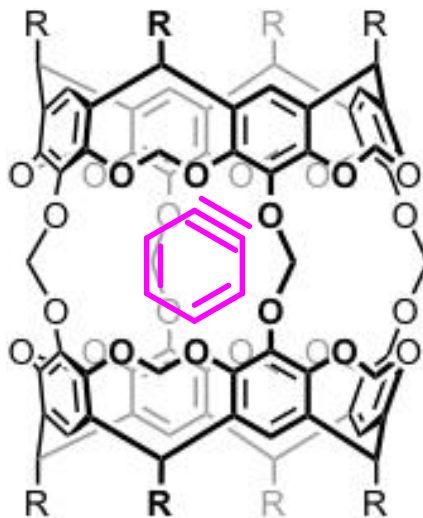


Vancomycin (aglycon)
antibiotikum

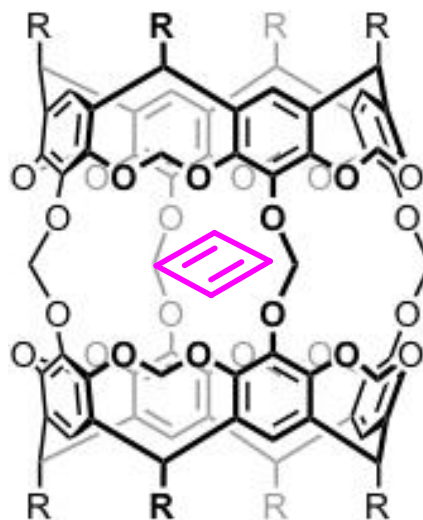


- Studium reaktivních intermediátů

benzyn

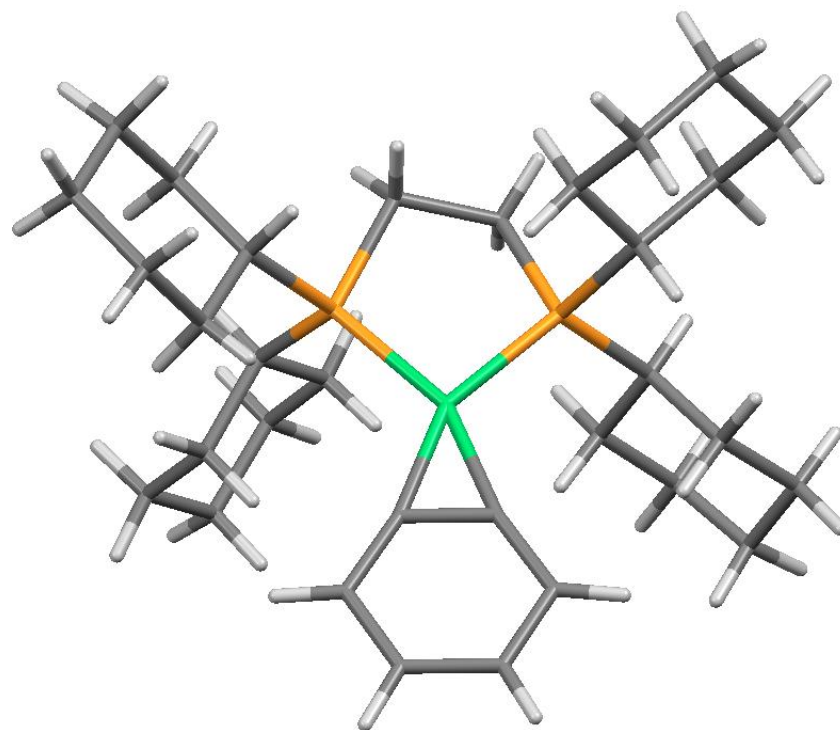
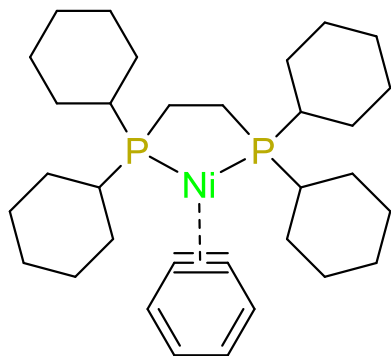
R. Wartmuth *Angew. Chem. Int. Ed. Engl.* 1997, 36, 1347.

cyklobutadien
(4N => anti-aromaticita)

D. J. Cram et al. *Angew. Chem. Int. Ed. Engl.* 1991, 8, 1024.



- Krystalová struktura komplexu benzynu



Bennet, M. A. et al. *Organometallics*, 1985, 4, 1992