In 1922 Alexander Fleming observed bacterial lysis and coined the name lysozyme. More can be found about membranes and cell surfaces in Chp. 9 of G & G.

Gram Negative Cell Wall Peptidoglycan

NAG: N-acetyl glucosamine
NAM: N-acetyl muramic acid

β-glucose
α-glucose

β(1→4)
α(1→4)

starch, peptidoglycan
glycogen
For WT $k_3 \gg k_2$

For E35Q $k_3 \ll k_2$

(Glu35$\rightarrow$Gln35)

site-directed mutant