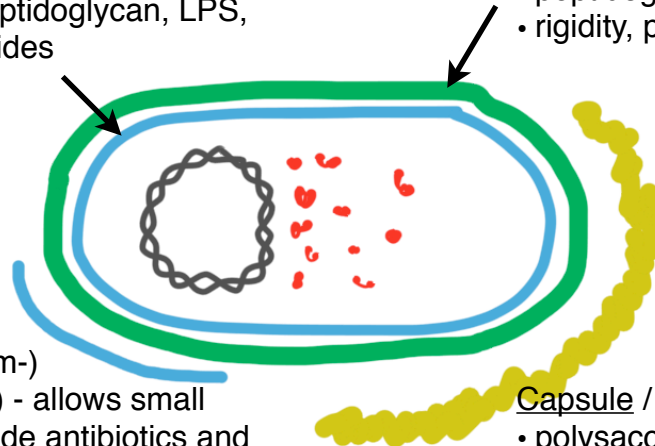


Cytoplasmic membrane:

- active transport of ions and nutrients
- synthesis of lipids, peptidoglycan, LPS, capsular polysaccharides
- protein secretion
- ETC
- flagella, chemotaxis

Cell wall:

- peptidoglycan, made by PBPs
 - rigidity, prevents osmotic lysis
- Cell wall carbohydrates
--> Lancefield groups



Outer membrane (Gram-)

- osmoregulation (filter) - allows small molecules, may exclude antibiotics and enzymes
- LPS, porins, virulence factors (proteins)
 - antigenicity
 - classification

Capsule / Slime layer / Biofilm:

- polysaccharide
 - anti-phagocytosis
 - adherence to host
 - antigenic => serotyping, vaccines

S. pneumoniae
H. influenzae
N. meningitidis

O antigen varying polysaccharide sequence and antigenicity => classification

lipid A

endotoxin --> Gram- endotoxic shock (during septicaemia)

eg *Salmonella choleraesuis*

- Envelope = cytoplasmic membrane + cell wall + outer membrane

Preview from Notesale.co.uk
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