#### Firmicoton: Phylam.

#### The Low G + C Gram-Positive Bacteria

Historically grouped on the basis of phenotypical characteristics:

- a Card Shares
- Arrangement of pells.
- Presence of endospores
- Oxygen requirements.
- Patterns of fermentation.
- Preptidoglycan chemistry

Physiological characteristics

Morphological characteristics.

 the most recent edition of Bergey's Manual classify the gram-positive bacteria on the basis of phylogenetic characteristics such as 165 rRNA sequence comparisons

Peptidoglycan structure and endospones are still important in the taxonomy of these organisms

- The peptidoglycan structure of different gram-positive groups differs considerably.
- Peptidoglycan structure can also differ with regard to the number of cross-linkages (interpeptide bridges) between the glycan chains.
- Bacilli (nod-shaped) bacteria and gram-negative bacteria have fewer peptide bridges than Stophylococcus pureus (coccus-shaped)

### Endospore production

- Characteristic feature of many gram-positive bacterial species.
- Spheroidal to egg-shaped intracellular survival structures.
- Each consists of spore capsule, cortex and inner spore membrane that encloses the protoplasm.
- Contains dipicolinic acid and is very heat resistant.
- Ability to remain dormant for long periods of time before germinating under favourable conditions

#### Examples of endospore location and size

spore-containing cell -> sporangium

Classifidium tetaini

Terminal spore with swollen sporangium

Anserobić genus – Clostridium

Figure 3.55 Examples of Endospore Location and Size. (a) Central spore. (b) Substranted spore. (c) Terminal spore. (d) Terminal spore with resolver sportagement.

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Robert Reid Gillies, T. C. Dodds

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