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**Mesosomes perform the following junctions in bacterium**

- (a) Helps in respiration, cellular secretion, etc.
- (b) Helps in increasing the enzymatic content and surface area of the plasma membrane.
- (c) Helps in the formation of a cell wall.
- (d) Helps in the replication of DNA and distribution of genetic material to daughter cells during fission.

**Chromatophores**

They are another membranous structures present in some prokaryotes like cyanobacteria, etc. They are internal membrane systems of photosynthetic forms, which possess photosynthetic pigments. These pigments are light reflecting.

**Flagella**

Bacteria can be motile or non-motile. Thus, motile bacteria possess one or more thread-like appendages extending from their cell wall called flagella (sing, flagellum). Bacteria are also classified according to the number and arrangement of flagellum in them.

Each flagellum is about 1-7 nm long covered by a protein coat.

The bacterial flagellum is differentiated into the following three parts

- (i) Filament, the longest portion, extending from the cell surface to the-outside. It is made up of protein called flagellin.
- (ii) Hook, a curved and tubular structure made up of protein subunits.