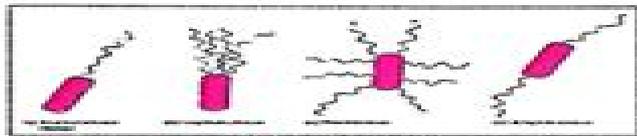


Appendages

- Several structures project through the cell wall of bacteria to form surface appendages
- The most commonly observed are flagella & pili

	① Flagella	② Pili or fimbriae (singular: pilus)
Diameter	<p>Only 20 nm in diameter</p> <p>→ too small to be detected by light microscope</p> <p>→ they can be demonstrated clearly with the electron microscope</p>	<p>Shorter & thinner than flagella</p> <p>→ can be observed only by the electron microscope</p>
Structure	<p>Flagella consist of protein called flagellin</p> <p>→ which differs in different bacterial species</p> <p>→ the flagellins are highly antigenic (H antigen)</p>	<p>Protein tubes that extend from the cells → they are composed of protein subunits termed pilins</p>
Location & number	<p>Location & number of flagella on a cell vary according to bacterial species → Organisms may be:</p> <ul style="list-style-type: none"> ① Monotrichous (single polar flagellum), ② Lophotrichous (multiple polar flagella), ③ Peritrichous (flagella distributed over the entire cell surface) 	<p>Short pili (fimbriae)</p> <p>→ distributed over the entire cell surface</p>
Functions	<p>Many bacteria move by means of flagella</p> <p>→ Motile bacteria migrate towards regions where there is higher concentration of nutrients & solutes (process known as chemotaxis) & away from disinfecting substances (negative chemotaxis)</p>	<ul style="list-style-type: none"> ① Adherence • It is the function of the short pili (fimbriae) that occur in great numbers around the cell • They enable bacteria to attach to the surfaces → thus contributing to the establishment of infection → virulence factor • For example, <i>N. gonorrhoeae</i>, withstands the flushing action of urine by adhering to urethral mucosa ② Conjugation Special long pilus called sex pilus (F pilus) is involved in transfer of DNA between bacteria → process known as conjugation
	<p>Axial filaments</p> <ul style="list-style-type: none"> • Structurally & chemically, fibres of axial filaments are similar to flagella & they are sometimes called "endoflagella". • Spirochaetes move by means of these axial filaments • These structures are composed of two groups of fibres that originate within the opposite ends of the cell and overlap in the middle → when the cell moves, it rotates around its longitudinal axis & flexes & bends along its length 	

23/10/20

Forms Of Explanation

Marco Cascella



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