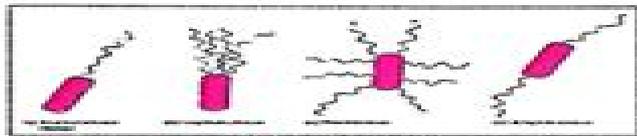


**Appendages**

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

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

23/10/2018

# Forms Of Explanation

**G Psacharopoulos**



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