

KEY WORDS AND PHRASES FOR BACTERIAL PILI CONCEPT MAP

1. Extension and retraction of these pili allows the bacterium to drag itself along the solid surface.
2. Long conjugation pili ("F" or sex pili)
3. Short attachment pili (fimbriae)
4. Thin, protein tubes originating from the cytoplasmic membrane; found in virtually all gram-negative bacteria but not in many gram-positive bacteria
5. Usually quite numerous; organelles of adhesion allowing bacteria to colonize environmental surfaces or cells and resist flushing