

KEY WORDS AND PHRASES FOR BACTERIAL NUCLEOID CONCEPT MAP

1. Bacterial genomes contain a high frequency of unmethylated cytosine-guanine dinucleotide sequences that are recognized as PAMPs.
2. DNA determines what proteins and enzymes an organism can synthesize and, therefore, what chemical reactions it is able to carry out.
3. Does not divide by mitosis
4. Enzymes called DNA topoisomerases are essential in the unwinding, replication, and rewinding of the circular, supercoiled bacterial DNA.
5. Fluroquinolones inhibit DNA topoisomerase enzymes needed for bacterial nucleic acid synthesis.
6. The two ends of the double-stranded DNA covalently bond together to form both a physical and genetic circle.