DNA Replication

http://www.infection.bham.ac.uk/Teaching/minchin/jmol/Tutorials/DNA/DNA.html

Linear DNA unwound by two right-hand turns

Unwound circle

Negative superhelix (right-handed)
Three-step pathway of nick sealing by DNA ligase.

Step 1: Lys → Ligase–AMP
ATP

Step 2: Lys → DNA–Adenylyl

Step 3: AMP → Phosphodiester

Shuman S J. Biol. Chem. 2009;284:17365-17369