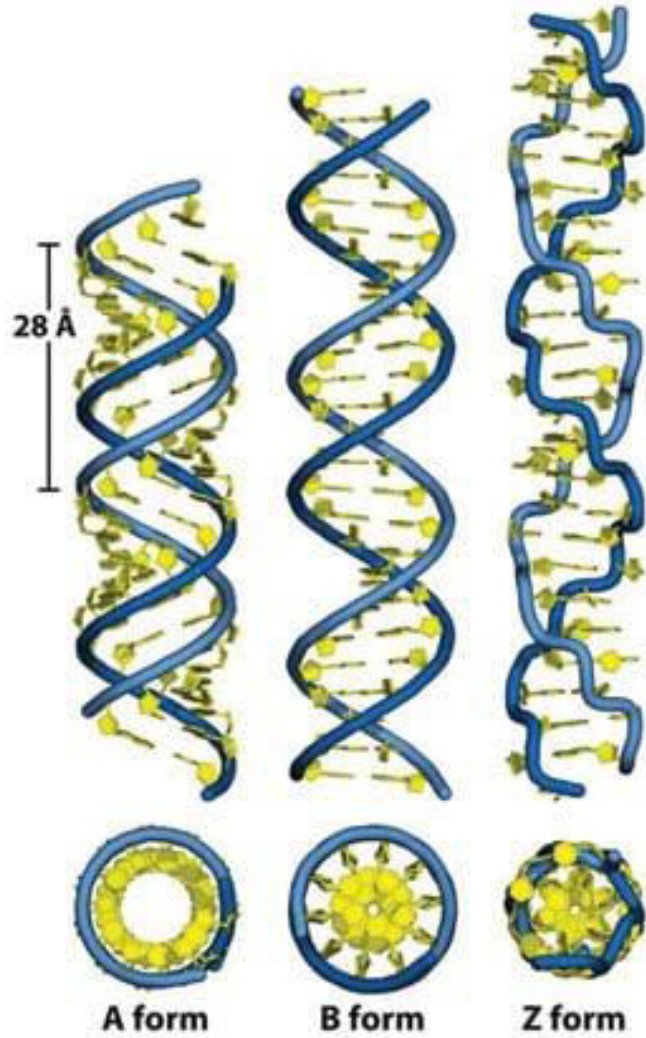


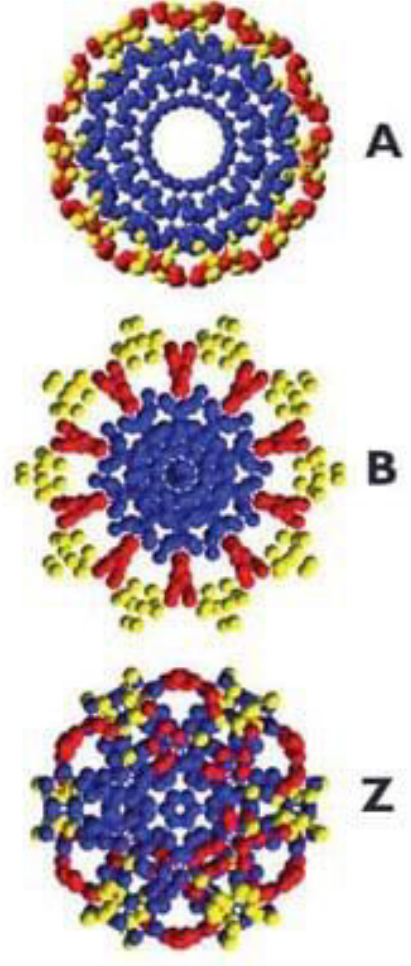
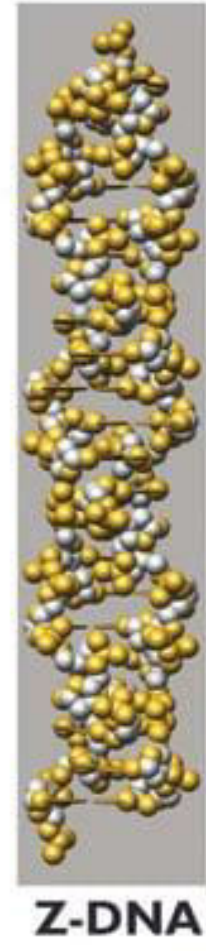
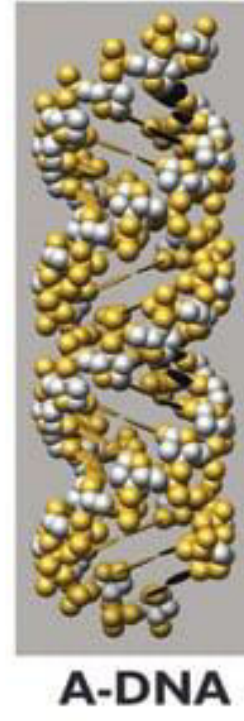
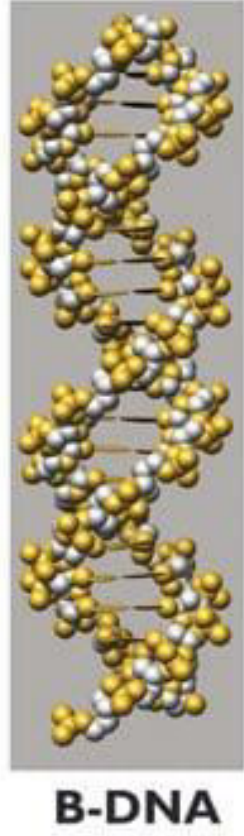
Molecular Biology and Genetics



15-01-2024



Different forms of DNA



| | <i>A form</i> | <i>B form</i> | <i>Z form</i> |
|------------------------------------|---------------|---------------|---|
| Helical sense | Right handed | Right handed | Left handed |
| Diameter | ~26 Å | ~20 Å | ~18 Å |
| Base pairs per helical turn | 11 | 10.5 | 12 |
| Helix rise per base pair | 2.6 Å | 3.4 Å | 3.7 Å |
| Base tilt normal to the helix axis | 20° | 6° | 7° |
| Sugar pucker conformation | C-3' endo | C-2' endo | C-2' endo for pyrimidines; C-3' endo for purines |
| Glycosyl bond conformation | Anti | Anti | Anti for pyrimidines; syn for purines |