|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DNA** |  | **Double helix** |  | **Base-pairing rules** |
| nucleus |  | base pair |  | double helix |
| RNA |  | backbone |  | nucleotides |
|  |  |  |  |  |
|  |  |  |  |  |
| **Gene** |  | **Nucleic acid** |  | **Nucleotide** |
| genetics |  | DNA |  | RNA |
| information |  | chromosome |  | nucleic acid |
|  |  |  |  |  |
|  |  |  |  |  |
| **Mutation** |  | **DNA polymerase** |  | **Polypeptide** |
| genotype |  | cell division |  | ribosome |
| allele |  | base-pairing rules |  | translation |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Transcription |  | Messenger RNA (or mRNA) |  | RNA polymerase |
| nucleus  |  | codons |  | DNA |
| translation |  | DNA |  | base-pairing rules |
|  |  |  |  |  |
|  |  |  |  |  |
| Translation |  | Transfer RNA (or tRNA) |  | Ribosome |
| ribosome |  | translation |  | codon |
| codon |  | mRNA |  | tRNA |
|  |  |  |  |  |
|  |  |  |  |  |
| Codon |  | Anticodon |  | Genetic code |
| anticodon |  | codon  |  | triplet code |
| stop |  | ribosome |  | translation |