

DNA

mRNA

tRNA

Double polynucleotide chain	Single polynucleotide chain	Single polynucleotide chain
Largest molecule of the three	Molecule is smaller than DNA but larger than tRNA	Smallest molecule of the three
Double-helix molecule	Single-helix molecule	Clover-shaped molecule
Pentose sugar is deoxyribose	Organic bases are adenine, uracil, guanine, cytosine	Pentose sugar is ribose
Organic bases are adenine, thymine, guanine and cytosine	Manufactured in the nucleus but found throughout cell	Organic bases are adenine, uracil, guanine, cytosine
Found mostly in the nucleus	Quantity varies from cell to cell and with metabolic activity	Manufactured in the nucleus but found throughout cell
Quantity is constant for all cells of a species (except gametes)	Less stable than DNA and tRNA	Quantity varies from cell to cell and with metabolic activity
Chemically very stable		Chemically more stable than mRNA but less stable than DNA

Preview from Notesale.co.uk
Page 2 of 2