

* possible roles of modified histone:-

(7)

- Acetylation of histone H3 & H4 → activation or inactivation of gene transcription
- Acetylation of core histone → chromosomal disassembly during DNA replication
- phosphorylation of histone H1 → condensation of chromosome during replication cycle
- ADP-ribosylation of histone → DNA repair
- methylation of histone → Activation & repression of gene transcription
- monoubiquitylation → gene activation, repression, heterochromatic gene silencing
- SUMOylation of histone → transcription repression
[SUMO - small ubiquitin related modifier]