

- e. Methylated genes should be wiped out at
- f. Evidence shows that they are not always “cleaned up” and can be

## B. Histone Tagging

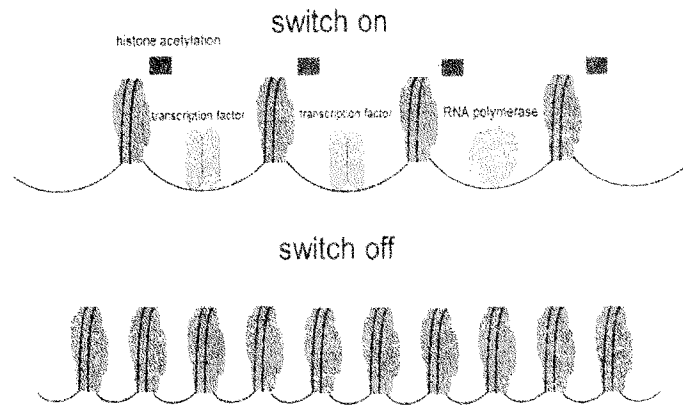
- a. Histones proteins that are wrapped with DNA have “tails.”
- b. Chemicals attach to

- c. Changes structure of

- d. Changes gene expression of

- e. Chemicals that attach to histone tails can:

1. (“turn on”) genes during transcription
2. genes to start
3. Silence genes to



## C. RNA Interference (RNAi )

- a.
- b. Pieces of RNA in cytoplasm destroy some molecules their ability to
- c. This mechanism is used by our cells to fight
- d. Research being done in hopes to use RNAi to

## V. The Human Epigenome Project (HEP)

- A. Aims to identify, catalogue and of all human genes.
- B. Methylation is of major importance in the regulation of gene expression during