(a) LncRNA transcription causes increased nucleosome density (yeast)

(b) LncRNA transcription causes repressive histone modifications (yeast)

(c) Aberrant transcription recruits DNA methylation to overlapped promoter (human)

(d) Key

- Inactive lncRNA promoter
- Silenced pc gene promoter
- Transcription factors activating pc gene
- DNA methylation
- Nucleosome
- Nucleosome with repressive histone modifications
- Epigenetic modifiers travel with RNAPII and deposit H3K4me2 and H3K36me3
- Epigenetic modifiers performing deacetylation