

1. Dosage Compensation in *D. melanogaster* (rox RNAs)
2. Dosage Compensation in vertebrates (Xist-Tsix)
3. Telomerase RNA maturation and Cajal Bodies
4. RNA:Protein bodies: Paraspeckles (NEAT-1)
5. Genomic Imprinting regulated by lncRNAs
6. lncRNAs and Hyperconserved elements
7. piRNAs in *D. melanogaster*
8. R-loops and genomic instability
9. R-loops and regulation of gene expression
10. RNA Editing (ADAR, immunesystem)
11. lncRNAs and resistance of tumors to chemotherapy
12. lncRNAs and resistance of tumors to immunotherapy
13. lncRNAs and cancer formation and progression