

Worksheet - Lesson 1: Subjects and Actions

Principles:

1. Put actions in verbs
2. Put characters in subjects
3. Keep subjects near verbs

Exercises (revise these sentences for clarity using the principles of this lesson):

1. Tyrosine phosphorylation by activated JAKs of cytokine-receptor cytoplasmic domains then provides binding sites for the Src-homology-2 domain of the STAT proteins.
2. We subjected yeast to 20 min of amino acid deprivation and made ribosome-footprint and mRNA-abundance measurements.
3. The assumptions that all sites evolve at one of two evolutionary rates (conserved and nonconserved), that these rates are uniform across the genome, that sites evolve independently conditional on whether they are in conserved or nonconserved regions, and that the phylogenetic models for conserved and nonconserved regions have the same branch-length proportions, base compositions, and substitution patterns, all represent oversimplifications of the complex process of sequence evolution in eukaryotic genomes.
4. The number of different mechanisms that may exist for cells to interpret morphogens, and the importance of design features such as feedback or local cell-cell communication, is unclear.
5. Furthermore, the application of new technologies to further understand the biology of the adipocyte, including location analysis, global DNase hypersensitivity, high-throughput RNA-interference screens and computational strategies, promises to enhance our knowledge of this once-neglected cell.
6. Indeed, in the mouse, the sequences of large noncoding RNAs, which probably have no 3' polyA tail, were reconstructed from the fragments of truncated cDNAs.
7. Localized fluctuations in substitution rate are widely employed to draw inference concerning the phenotypic significance of genomic sequence.
8. A number of promoters exhibited significant positive correlations between the footprinting estimated distribution of K and nucleosome score estimated from T-Cells.
9. In this study, we subjected seven different primate species to comparative analysis of the radial distribution pattern of human chromosome 18- and 19-homologous chromatin by three-dimensional fluorescence in situ hybridization.