

Write down whether the statements are true or false. If false provide the correct answer

1. The draft of the Human Genome Project was published in 2003
2. The HOX genes are associated with developmental process
3. Human genome contains around 50,000 genes
4. Hundreds of Human genes are derived from bacteria by horizontal transfer
5. Some SNPs are associated with diseases
6. Females are more mutation prone than man
7. Human Genome Projects uses BAC which is more suitable than YAC and cosmid
8. CpG islands are underrepresented in Human genome
9. CpG islands are associated with the 3' end of the gene
10. Chromosome Y has an unusually high CpG island per Mb
11. Genetic maps are measured by cM whereas Physical maps are measured by Mb
12. The average recombination rate increases as the length of the chromosome arm decreases
13. Transposons are of mainly three types
14. Line contains two ORF and one DNA Polymerase I binding site
15. Most SINEs live by sharing the 3' end of a resident LINE
16. LTR retrotransposons move by 'cut and paste' mechanism
17. Age distributions of the repeats provides a rich fossil record of Human genome
18. There is no evidence of DNA transposon activity in the past 50 MYrs in the human genome
19. The heterochromatic portion of human genome has a higher density of transposable element when compared with fly, worm and mustard weed
20. LINE1 and alu are the most dominant repeats in fly, worm and mustard weed
21. HOX genes clusters of the human genome are the region with highest density of interspersed repeats
22. Genetic material of chromosome Y is unusually old
23. Transposable elements are contributory force of regulatory elements and genes
24. SSRs are important in genetic studies due to their high degree of polymorphisms
25. Segmental duplication are defined as segments that are duplicated among nonhomologous chromosomes
26. Dystrophin (DMD) gene is the largest known gene of human genome
27. Titin gene has the lowest number of exon
28. Vertebrate specific protein domains are mainly involved in digestion and reproduction
29. Human and mice shared a common ancestor 100 MYrs ago
30. Write the name of one gene that may be transferred to human by horizontal transfer?