

Genome

1. The Genome Reference Consortium (GRC) aims to correct the small number of regions which are currently misrepresented to close as many remaining gaps. The alternate loci represent regions for which there is large scale variation. One of these regions was found on chromosome 4; of this region report:
 - a. the name of the locus;
 - b. the start and end position;
 - c. the contig accession number and length
 - i. in the reference assembly of the alternate locus group;
 - ii. in the most recent of the human genome sequencing.
 - d. the 2008 reference in which the polymorphism is described.

2. Search for the genome of *Bos Taurus* and report:
 - a. the code of the latest sequencing and of the related BioProject for the reference genome;
 - b. the accession code and the length of the chromosome 9 reference sequence;
 - c. the accession code and the length of the mRNA and protein reference sequence of the ESR1 gene;
 - d. the Gene ID and the name of the two flanking genes.

3. The genome of *Bacillus cereus* ATCC 10987 has been completely sequenced . Report the reference of the paper on sequencing. Of the reference sequence of this genome report:
 - a. the accession number and the length;
 - b. the total number of genes and proteins;
 - c. the Gene id and the function of the SerS gene;
 - i. the accession code of the reference sequence of the protein;
 - ii. how the protein existence has been proved.