BIOINFORMATICS ASSIGNMEMNT 1 (DAY 1 TO DAY 5)

- 1. Gene Name: TP53
- 2. Function of the Gene: This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers.
- 3. NCBI accession number: NC_000017.11
- 4. Forward Primer: TTGTAATGCAGGGCTGAGGA
- 5. Reverse Primer: CTGCTCCCACCTCCTGTTAA
- 6. Primer Features:

%GC content:**50-55**%

Temperature: 59 degree Celsius

Primer length: 20

7. Amplicon length: 208

Amplicon Sequence: 19214

QPCR Data Analysis (DAY 5)

	House keping genes		Gene of Intrest		avera ge ct value of HG	Avera ge ct value of GOI	delta ct value	delta delta ct value	Fold change	
	R1	R2	R1	R2						
cont rol	18.5	18.5	23.3	22.5	18.5	22.9	4.4	0	1	
Sam ple 1	18.3	18.3	25.3	25.3	18.3	25.3	7	2.6	0.1649 38489	
Sam ple2	18.5	18.5	26.5	26.5	18.5	26.5	8	3.6	0.0824 69244	
Sam ple3	18.2	18.2	27.5	27.5	18.2	27.5	9.3	4.9	0.0334 92921	