



ATG Bioinfo 1

Fast track project in Bioinformatics

Course coordinator – DEVENDRA LINGOJWAR Director, ATG LAB

Some of the following types of software will be studied in project

1. NCBI database, 2. Bioedit, 3. BLAST, 4. BLAST2, 5. Reverse complement, 6. Primer 3, 7. NCBI primer, 8. MEGA4 etc.

Project will be from some of these areas:

Virology, Human Genetics and Genomic, Molecular evolution, Genomics etc.

Brief titles of some of the bioinformatics projects

1. Comparative genomics: sequence alignment for viral mutation and evolution studies
2. Genotype selection and phylogenetic studies on viral sequences
3. Primer designing and PCR for bacterial genomic studies
4. DNA sequencing and phylogenetic studies on bacteria
5. Comparative studies on H1N1 viral sequences from outbreak
6. Development of SNP / Nested / multiplex / PCR primer for
7. RNA secondary structure and its significance in
8. Hepatitis viruses genotype studies and Epidemiology.....
9. Human parvovirus B19 genotype studies and its epidemiology
10. Dengue viruses.....
11. Restriction map studies for viral genomes

Duration: 45 to 60 Days

Mol Biol training (optional): Wet lab training in DNA extraction, gradient PCR & electrophoresis, bacterial 16S rRNA PCR and electrophoresis (individual handling, not in a group)



For more detailed information visit personally or email

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