



## Gene Cloning Genetical Engineering Summer Training

NTHRYS provides Gene Cloning Genetical Engineering Summer Training for interested candidates at its Hyderabad facility, Telangana. Please refer below for more details including Fee structures, Eligibility, Protocols and Modules etc.,. Please do call / message / whatsapp for more details on 9014935156 [India - +91]

**Eligibility:** BSc / BTech / MSc / MTech / MPhil / PhD in any Life Sciences studying or completed students

### Protocols / Techniques Covered

1. DNA Extraction from Human Blood
2. DNA Extraction from Bacteria
3. DNA Extraction from Plant Leaf
4. DNA Extraction from Chicken Liver
5. Primer designing using Bioinformatics Tools
6. Optimization of PCR parameters
7. PCR
8. Agarose Electrophoresis using 1 - 10 Kbp ladder
9. Extraction & purification of amplified DNA from Agarose gels using spin columns
10. Cultivation of pUC 18 vector bearing bacterial strain
11. Plasmid [pUC 18] isolation
12. Restriction digestion of pUC18 vector using EcoRI
13. 5' End DNA modification of restriction digested plasmid sample [Addition of Poly Ts]
14. TA Cloning [PCR Product and sample obtained above]
15. DNA ligation
16. Cultivation of DH5 alpha cells and Competent cell preparation using cultivated DH5 alpha cells
17. Bacterial Transformation [using competent cells and cloned vector obtained above]
18. Blue white screening [checking for the transformed colonies]

5 Days Duration - [Protocols 1, 5, 6, 7 & 8 are covered]

10 Days Duration - [Protocols 1, 2, 3, 5, 6, 7 & 8 are covered]

20 Days Duration - [Protocols 1, 2, 3, 4, 5, 6, 7 & 8 are covered]

1 Month Duration - [Protocols 1 to 13 are covered]

45 Days Duration - [All the above mentioned protocols are covered]

Gene Cloning Genetical Engineering Summer Training

| Fee details in Rs per student |        |         |         |         |         |
|-------------------------------|--------|---------|---------|---------|---------|
| Fee                           | 5 Days | 10 Days | 20 days | 1 Month | 45 Days |
| Individual                    | 25800  | 27200   | 35100   | 44000   | 52600   |
| Group 2 - 4                   | 24400  | 24400   | 33300   | 41900   | 50100   |
| Group 5 - 7                   | 24100  | 24100   | 32900   | 41500   | 49600   |
| Group 8 - 10                  | 23800  | 23800   | 32600   | 41100   | 49100   |