Molecular Biology Training

NTHRYS Biotech Labs offers Molecular Biology Training Program in Offline (at Hyderabad, cherlapalli IDA branch) and Online / Virtual modes under below mentioned protocols. Candidates can opt their interested protocols from the list below. Please click **Join** button to pay the fee for selected protocol. Fees should be paid individually for all the selected protocols separately by clicking the button. Please save the payment proofs and send them as an attachment to **trainings [a t] nthrys [d 0 t] com** to receive payment invoices and slot confirmations.

Please Check Modules as well as individual protocols (if any) under this training program. Module has its fee given in the fee structure table and individual fee in its block. Please communicate with our Help Desk Team via whatsapp on +91-8977624748 for any queries.

Modules

NTHRYS provides Molecular Biology Training for interested candidates at its Hyderabad facility, Telangana. Please refer below for more details including Fee strctures, Eligibility, Protocols and Modules etc.,. Please do call / message / whatsapp for more details on 8977624748 [India - +91]

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 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]

Note

3 Months, 4 Months, 5 Months & 6 Months duration training programs are provided only in Molecular Biology Industrial Training, Molecular Biology Course Finishers Training, Molecular Biology Job Oriented Training, Molecular Biology Research Training

Fee Structures for Molecular Biology Training

Fee details in Rs per student					
Fee	5 Days	10 Days	20 days	1 Month	45 Days
Individual	5880	8520	9360	14760	25360
Group 2 - 4	5000	8000	9000	14000	25000
Group 5 - 7	4500	7300	8000	13000	23000
Group 8 - 10	3500	6000	7000	11000	21000

Various PCRs offered for Training

Please contact for below PCRs training fee details.

1. Alu-PCR
2. Arbitrary PCR
3. Asymmetric Inverse PCR
4. Asymmetric PCR
5. Assembly PCR
6. Chimeric Primer-Initiated Amplification (CPIA)
7. Circularizable Probe PCR (Cir-PCR)

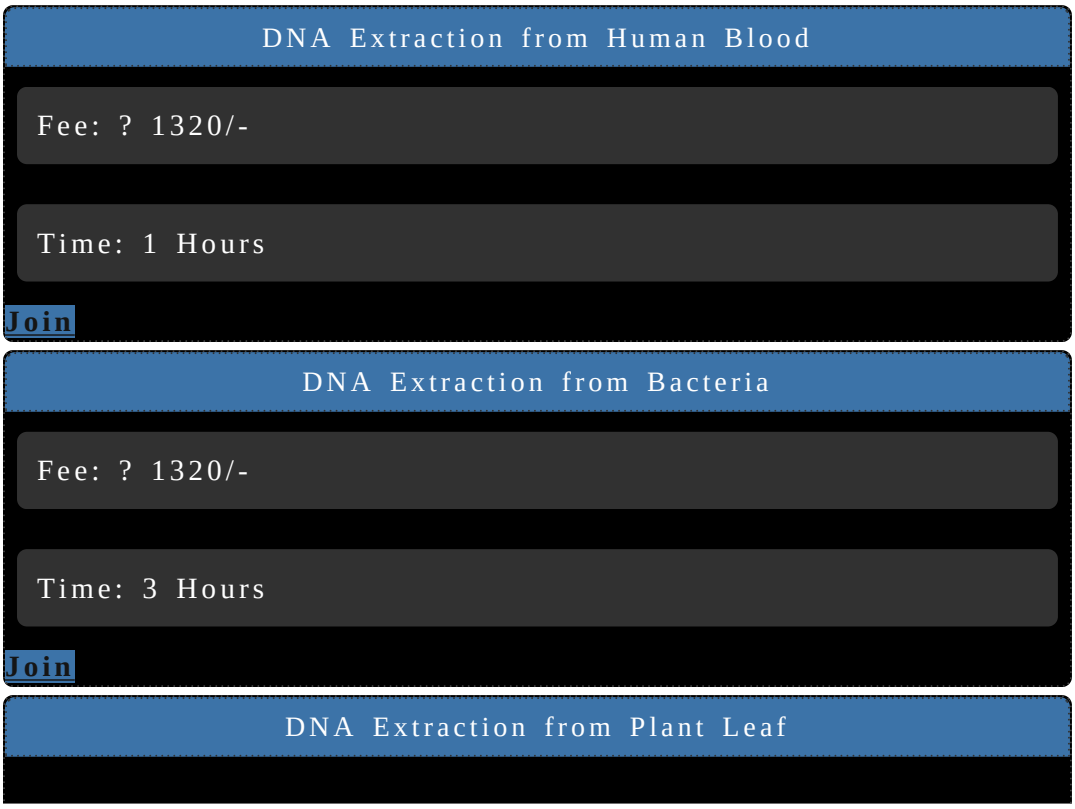
8. Colony PCR
9. Combinatorial PCR
10. Constant Denaturant Capillary Electrophoresis (CDCE)
11. CRISPR-Cas-Assisted PCR (CAPTURE-PCR)
12. Cold PCR
13. Cross-Priming Amplification (CPA)
14. DASEL (DNA Annealing, Selection, Extension, and Ligation) PCR
15. Delayed-Template PCR
16. Digital PCR
17. DNA-templated DNA Ligation (RTDL) PCR
18. Direct Isothermal Recombinase Polymerase Amplification (RPA)
19. Droplet Digital Barcoding PCR
20. Droplet Digital PCR (ddPCR)
21. Droplet-Loop-mediated Isothermal Amplification (Droplet-LAMP)
22. Enhanced Specificity Amplification (ESA) PCR
23. Exonuclease-Specific PCR
24. Exponential Amplification Reaction (EXPAR)
25. Fast-cycling PCR
26. Fluorescence Resonance Energy Transfer (FRET) PCR
27. Genome Partitioning PCR
28. Genome Walking PCR
29. HDA (Helicase-Dependent Amplification) PCR
30. Helicase-Dependent Isothermal Amplification (HDA)
31. Helicase-Dependent PCR (HDPCR)
32. Helicase-Dependent Amplification (HDA)
33. Helicase-Dependent Isothermal Amplification (HDA)
34. High-fidelity PCR
35. High-Resolution Melt (HRM) PCR
36. Hybrid PCR
37. Hybridization-Extension Loop-mediated Amplification (HE-LAMP)
38. Hybridization-Based Extension (HBE) PCR
39. Hybridization Chain Reaction (HCR)
40. Hybridization-Based Extension (HBE) PCR
41. Immuno-PCR
42. Intersequence-Specific PCR (ISSR)
43. Ligation-Mediated PCR (LM-PCR)
44. Long-range PCR
45. Loop-mediated Isothermal Amplification (LAMP)
46. Magnetic Capture Hybridization (MCH) PCR
47. MDEP-PCR (Mutation Detection Enhancement by Polling PCR)
48. MDA (Multiple Displacement Amplification) PCR
49. Methylation-specific PCR (MSP)
50. MLPA (Multiplex Ligation-dependent Probe Amplification)
51. Multiplex PCR
52. Multiplexed Error Robust Single-Tube Identification-PCR (MERSI-PCR)
53. Multiplex Ligation-dependent Probe Amplification (MLPA)

54. Multiplex Real-time Loop-mediated Isothermal Amplification (MRT-LAMP)
55. Next-Generation Sequencing PCR (NGS-PCR)
56. Nick Translation PCR
57. Nested PCR
58. One-Sided PCR
59. Overlap Extension PCR
60. Padlock Probe Ligation PCR
61. PCR with Locked Nucleic Acids (LNA-PCR)
62. PCR with Universal Primers
63. Peptide Nucleic Acid PCR (PNA-PCR)
64. Primer-Free DNA Amplification
65. Primer Walking PCR
66. QASP (Quantitative Allele-specific PCR)
67. Quantitative Allele-specific PCR (QASP)
68. Quantitative PCR (qPCR)
69. Random Amplified Polymorphic DNA PCR (RAPD-PCR)
70. Real-time Loop-mediated Isothermal Amplification (RealAmp)
71. Recombinase Polymerase Amplification Linked with Lateral Flow (RPA-LF)
72. Recombinase Polymerase Amplification (RPA)
73. Recombinase Polymerase-Mediated Isothermal Amplification (RPA)
74. Recombinase-aided Amplification PCR (RAA-PCR)
75. Restriction Endonuclease-Facilitated Real-Time PCR
76. Restriction Site PCR (RSP-PCR)
77. Ribonuclease H2-Dependent PCR (rhPCR)
78. Rolling Circle Amplification (RCA)
79. RTDL (RNA-templated DNA Ligation) PCR
80. SAT-PCR (Simultaneous Amplification and Testing PCR)
81. Scorpion Amplification Refractory Mutation System (ARMS) PCR
82. Seamless Ligation Cloning Extract (SLICE) PCR
83. Sequence-Characterized Amplified Region (SCAR) PCR
84. Single-Cell Multiplex PCR
85. Single-Cell PCR
86. Single-Molecule Real-Time PCR (SMRT-PCR)
87. Single-Primer PCR
88. SMART (Switching Mechanism at 5 End of RNA Template) PCR
89. Solid-Phase PCR
90. Staggered Extension Process (StEP) PCR
91. Switch-Block-Notch Amplification (SBNA) PCR
92. Switching Mechanism at 5 End of RNA Template (SMART) PCR
93. Targeted Locus Amplification (TLA)
94. Temperature-Switch PCR
95. Temperature Gradient PCR
96. Template-Directed Ligation-Assisted PCR (TLA-PCR)
97. Template-Switching PCR
98. Temperature-Switch PCR
99. Thermo-Fast PCR

100. Thermal Asymmetric Interlaced PCR (TAIL-PCR)
101. Three-primer PCR
102. TIP-chip PCR (Transposon Insertion Profiling by microarray PCR)
103. TLA-PCR (Template-Directed Ligation-Assisted PCR)
104. Touchdown Extension PCR
105. Touchdown PCR
106. Touching-Template PCR
107. Transcription-Mediated Amplification PCR
108. Transposon Insertion Profiling by microarray (TIP-chip PCR)
109. Two-step PCR
110. uLAMP (Universal Loop-Mediated Isothermal Amplification)
111. Universal Fast Walking PCR
112. Universal Loop-Mediated Isothermal Amplification (uLAMP)
113. Universal Primer PCR (UP-PCR)
114. Zero Background Cloning (ZBC) PCR

Please choose a suitable time slot and inform our team via WhatsApp on +91-8977624748 (located at the top right corner) to receive the payment link for fee payment and slot confirmation.

Training based on Individual Protocols



Fee: ? 1680/-

Time: 6 Hours

Join

DNA Extraction from Chicken Liver

Fee: ? 480/-

Time: 3 Hours

Join

Primer designing using Bioinformatics Tools

Fee: ? 480/-

Time: 2 Hours

Join

PCR Optimization - Research Mode - No practical

Fee: ? 9600/-

Time: 72 Hours

Join

Agarose Electrophoresis

Fee: ? 720/-

Time: 3 Hours

Join

Extraction and purification of amplified DNA from Agarose gels

using spin columns

Fee: ? 720/-

Time: 1 Hours

Join

Cultivation of pUC 18 vector bearing bacterial strain

Fee: ? 960/-

Time: 24 Hours

Join

Plasmid -pUC 18- isolation

Fee: ? 720/-

Time: 6 Hours

Join

Restriction digestion of pUC18 vector using EcoRI

Fee: ? 1080/-

Time: 2 Hours

Join

5- End DNA modification of restriction digested plasmid sample - Addition of Poly Ts

Fee: ? 1920/-

Time: 3 Hours

Join

TA Cloning

Fee: ? 1320/-

Time: 2 Hours

Join

DNA ligation

Fee: ? 1080/-

Time: 2 Hours

Join

Competent cell preparation DH5 alpha cells

Fee: ? 1680/-

Time: 3 Hours

Join

Bacterial Transformation -using competent cells and cloned vector

Fee: ? 2160/-

Time: 48 Hours

Join

Blue white screening

Fee: ? 3360/-

Time: 48 Hours

Join

In silico PCR tools for a fast primer,probe, and advanced searching

Fee: ? 4800/-

Time: 10 Hours

Join

Introduction -on using the fastPCR software and the related java web tools for PCR and oligonucleotide assembly and analysis

Fee: ? 4800/-

Time: 10 Hours

Join

Long fragment polymerase chain reaction

Fee: ? 3600/-

Time: 10 Hours

Join

Strategies to improve efficiency and specificity of degenerate primers in PCR

Fee: ? 1800/-

Time: 2 Hours

Join

Inverse PCR for point mutation

Fee: ? 7200/-

Time: 20 Hours

Join

Synthesis of fusion genes for cloning by megaprimer based PCR

Fee: ? 18000/-

Time: 20 Hours

Join

A -novel platform for high throughput gene synthesis to maximize recombinant expression in Escherichia coli

Fee: ? 36000/-

Time: 40 Hours

Join

Colony PCR

Fee: ? 10800/-

Time: 10 Hours

Join

Crename - A molecular microbiology method enabling multiparametric assessment of potable / drinking water

Fee: ? 30000/-

Time: 30 Hours

Join

Multiplex detection of food borne pathogens

Fee: ? 7200/-

Time: 10 Hours

Join

Fast real time PCR for the detection of crustacean allergens in foods

Fee: ? 8400/-

Time: 10 Hours

Join

Fast real time PCR method for detection of soy in foods

Fee: ? 15600/-

Time: 10 Hours

Join

RAPD / SCAR Approaches for identification of adulterant breeds milk in dairy products

Fee: ? 10800/-

Time: 20 Hours

Join

Genetic diversity analysis of medicinally important horticultural crop Aegle marmelos by ISSR markers

Fee: ? 24000/-

Time: 30 Hours

Join

PCR in the analysis of clinical samples: prenatal and postnatal diagnosis of inborn errors of metabolism

Fee: ? 24000/-

Time: 20 Hours

Join

Harnessing the power of PCR molecular fingerprinting methods for understanding structure and function in microbial communities

Fee: ? 36000/-

Time: 20 Hours

Join

PCR (Polymerase Chain Reaction)

Fee: ? 3000/-

Time: 5 Hours

Join

Arbitrarily primed PCR for comparison of meta genomes and extracting useful loci from them

Fee: ? 24000/-

Time: 20 Hours

Join

RNA extraction from brain tissue

Fee: ? 3840/-

Time: 6 Hours

Join

Reverse transcriptase PCR

Fee: ? 3000/-

Time: 5 Hours

Join