



15 day certificate internship program for Bachelor degree students

Course duration: 15 days

Course fee: Rs. 4000

Course structure:

Day 1-4:

1. Isolation of genomic DNA from human blood
2. To perform Agarose gel electrophoresis
3. Polymerase Chain Reaction (PCR)

Day 5-8:

4. ELISA
5. SDS-PAGE

Day 9-13:

6. Microbiology Techniques (Media preparation, growth curve and CFU calculation, competent cell preparation, agar plate preparation, bacterial streaking)

Day 14-15:

7. Troubleshooting for the experiments learnt.
8. Open discussion over scope of Biological Sciences
9. Certificate distribution, group photo and networking.

Registration for June-July 2020 batch open, limited seats!

Contact: Ms. Mousumi Gogoi

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Phone: +917576046015

Website: www.bioaptagen.com

15 day certificate internship program for Masters degree students

Course duration: 15 days

Course fee: Rs. 5000

Course structure:

Day 1-4:

1. Isolation of genomic DNA from human blood
2. RNA isolation
3. To perform Agarose gel electrophoresis
4. Polymerase Chain Reaction (PCR)

Day 5-8:

5. ELISA
6. SDS-PAGE
7. Western blotting

Day 9-14:

8. Microbiology Techniques (Media preparation, growth curve and CFU calculation, competent cell preparation, agar plate preparation, bacterial streaking)
9. Isolation of Plasmid DNA

Concluding day:

1. Troubleshooting for the experiments learnt.
2. Open discussion over scope of Biological Sciences
3. Certificate distribution, group photo and networking.

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1 month certificate internship program for Masters degree students

Course duration: 30 days

Course fee: Rs. 10000

Hands-on techniques to be learnt:

- 1. DNA methods:** Genomic DNA isolation from mammalian and bacterial cells, PCR methods, Real Time qPCR, Agarose gel electrophoresis, RNA isolation, plasmid isolation from bacterial cells, restriction digestion of plasmid DNA, RFLP.
- 2. Protein methods:** SDS-PAGE, Western Blotting, ELISA
- 3. Microbiology methods:** Growth curve estimation, CFU calculation, competent cell preparation, bacterial transformation
- 4. Cell biology methods:** Mammalian cell culture propagation, freezing thawing of cells, cell viability assays, slide preparation for confocal microscopy
- 5. Bioinformatics methods:** DNA and protein sequence analysis, homology modelling, sequence retrieval, using common online analysis tools.

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