



Pharmacogenetics Workshops

NTHRYS provides Pharmacogenetics Workshops for interested candidates at its Hyderabad facility, Telangana or at their Respective Colleges / Institutions / Companies [Pharmacogenetics Campus Workshops]. Please refer below for more details including Fee structures and Modules. Workshop module can be customized on request. 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

Pharmacogenetics Workshops Module

| Time | Topic / Practical |
|----------|---|
| Day 1 | |
| 1st Hour | <ol style="list-style-type: none">1. Pharmacogenetics, Pharmacogenomics, Personalized Medicines - Introduction & Definitions2. Drugs & Genes3. Drug Responses [Variation in Drug Response]4. Factor Effecting Drug Responses5. Pharmacokinetics Factors<ol style="list-style-type: none">1. Absorption2. Distribution3. Metabolism4. Elimination6. Pharmacodynamics Factors<ol style="list-style-type: none">1. Target proteins2. Downstream messengers7. Phase I Metabolism8. Phase II Metabolism |

| | |
|----------|---|
| 2nd Hour | <p>9. Genetic Variations</p> <ol style="list-style-type: none"> 1. Insertions / Deletions 2. Copy Number Polymorphisms 3. SNPs [Single Nucleotide Polymorphisms] <ol style="list-style-type: none"> 1. Alleles, Haplotype, Haplotype Profile, Allele Frequency 2. SNP Profile 3. Different Types of SNPs <ol style="list-style-type: none"> 1. Outside Genes 2. In the Gene Coding Sequence 3. In Promoter Region 4. In the mRNA 3'-untranslated region <p>10. Population Pharmacogenomics</p> |
| 3rd Hour | <p>11. SNP Genotyping Methods</p> <ol style="list-style-type: none"> 1. SNP Microarrays <p>12. SNP Datatypes & Databases</p> <p>13. Various SNP Research Works reported world wide</p> |
| 4th Hour | <p>14. Main Objectives of Pharmacogenetics or Pharmacogenomics</p> <p>15. Bioinformatics Tools for Pharmacogenomics Studies</p> <p>16. Various Drugs under Pharmacogenomics Studies World Wide</p> <p>17. Selection of Specific Drug & Disease for Pharmacogenomics Study</p> <p>18. Download SNP Database</p> |
| Day 2 | |
| 1st Hour | <p>19. SNP Identification</p> <p>Single SNP Analysis</p> <ol style="list-style-type: none"> 20. Allele Frequencies 21. Genotype Frequencies 22. Hardy-Weinberg Equilibrium 23. SNP Association with Response 24. Interactions between SNPs and Covariant |
| 2nd Hour | |
| 3rd Hour | |
| 4th Hour | |
| Day 3 | |
| 1st Hour | <p>Multi SNP Analysis</p> <ol style="list-style-type: none"> 25. Linkage Disequilibrium 26. Haplotype Frequency Estimation 27. Haplotype associated with Response 28. Interactions with Halpotype and Covariant <p>Imp SNPs</p> <ol style="list-style-type: none"> 29. Cytochrome P450 [CYP450] 30. CYP1A2, CYP2C9, CYP2C19, CYP2D6, CYP3A4, and CYP3A5 enzymes metabolise 90% Drugs <p>Conclusion</p> <ol style="list-style-type: none"> 31. Pharmacogenetics - Personalized medicine 32. Pharmacogenetics - Costs & Benefits |
| 2nd Hour | |
| 3rd Hour | |
| 4th Hour | |

Above module will be extended to 5 days and 10 Days durations

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Pharmacogenetics Workshops [Pharmacogenetics Campus Workshops]

| Fee details in Rs per student | | | |
|-------------------------------|--------|--------|---------|
| Fee | 3 Days | 5 Days | 10 Days |
| Individual | 10100 | 11600 | 12100 |
| Group 10 - 20 | 9500 | 11000 | 11000 |
| Group 21 - 30 | 9400 | 10900 | 10900 |
| Group 40 & above | 9300 | 10800 | 10800 |

What do NTHRYS provide under Pharmacogenetics Workshops?

- Pharmacogenetics Workshops Certificate to Candidates.
- Live Practical exposure to all protocols in Pharmacogenetics Workshops module.