



Pharmacogenomics Workshops

NTHRYS provides Pharmacogenomics Workshops for interested candidates at its Hyderabad facility, Telangana or at their Respective Colleges / Institutions / Companies [Pharmacogenomics 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

Pharmacogenomics Workshops Module

Time	Topic / Practical
Day 1	
1st Hour	<ol style="list-style-type: none">1. Pharmacogenomics, Pharmacogenetics, 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 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. Pharmacogenomics - Personalized medicine 32. Pharmacogenomics - Costs & Benefits
2nd Hour	
3rd Hour	
4th Hour	

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

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Pharmacogenomics Workshops [Pharmacogenomics 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 Pharmacogenomics Workshops?

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