



Pharmacogenomics Summer Training

NTHRYS provides Pharmacogenomics 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

Topic / Practical
Module 1
<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

9. Genetic Variations 1. Insertions / Deletions 2. Copy Number Polymorphisms 3. SNPs [Single Nucleotide Polymorphisms] 1. Alleles, Haplotype, Haplotype Profile, Allele Frequency 2. SNP Profile 3. Different Types of SNPs 1. Outside Genes 2. In the Gene Coding Sequence 3. In Promoter Region 4. In the mRNA 3'-untranslated region 10. Population Pharmacogenomics
11. SNP Genotyping Methods 1. SNP Microarrays 12. SNP Datatypes & Databases 13. Various SNP Research Works reported world wide
14. Main Objectives of Pharmacogenomics 15. Bioinformatics Tools for Pharmacogenomics Studies 16. Various Drugs under Pharmacogenomics Studies World Wide 17. Selection of Specific Drug & Disease for Pharmacogenomics Study 18. Download SNP Database
Module 2
19. SNP Identification Single SNP Analysis 20. Allele Frequencies 21. Genotype Frequencies 22. Hardy-Weinberg Equilibrium 23. SNP Association with Response 24. Interactions between SNPs and Covariant
Module 3
Multi SNP Analysis 25. Linkage Disequilibrium 26. Haplotype Frequency Estimation 27. Haplotype associated with Response 28. Interactions with Halpotype and Covariant Imp SNPs 29. Cytochrome P450 [CYP450] 30. CYP1A2, CYP2C9, CYP2C19, CYP2D6, CYP3A4, and CYP3A5 enzymes metabolise 90% Drugs 31. Pharmacogenomics - Personalized medicine 32. Pharmacogenomics - Costs & Benefits

Individual Topics under each module will be extended depending upon the selected duration

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Fee details in Rs per student					
Fee	5 Days	10 Days	20 days	1 Month	45 Days
Individual	29700	31400	40600	50900	61000
Group 2 - 4	28100	28100	38500	48500	58000
Group 5 - 7	27800	27800	38100	48000	57400
Group 8 - 10	27400	27400	37600	47500	56900