PROGRAM EPIGENTICS

Prof. Schoeftner – 6 CFU TEXTBOOK: "Epigentics", Second Edition, CSH Press

- 1. Overview and Concepts
- 2. Writers and Readers of Histone Acetylation
- 3. Erasers of Histone Acetylation
- 4. Structural and Functional Coordination of DNA and Histone methylation
- 5. Position Effect Variegation, Heterochromatin Formation and Gene Silencing In Drosophila
- 6. RNAi and Heterochromatin assembly
- 7. Polycomb group and Trithorax group proteins
- 8. Histone Variants and Epigenetics
- 9. Maintenance of Epigenetic Information
- 10. Genomic Imprinting in Mammals
- 11. Induced Pluripotency and Epigenetic Reprogramming
- 12. Epigenetics and Human Disease
- 13. Epigenetic Determinants of Cancer
- 14. Histone modifications and Cancer