

Mastering DNA Basics

Final program

18th – 20th Aug 2023

**Venue: SBA School of Science and Engineering
Lahore University of Management Sciences**

All lectures will take place in Dean's Smart room on the 4th floor of SBASSE complex.

Day 1: August 18, 2023 (Friday)

12:00 – 13:00. Arrival and registration in SBASSE
13:00 – 15:00. Lunch
15:00 – 16:00. DNA – The molecule of life: structure and function
16:00 – 16:10. Short Break
16:10 – 17:10. Packaging of DNA: chromatin to chromosomes
17:10 – 18:00. DNA replication and cell division (part I)
18:00 – 18:20. Tea
18:20 – 19:00. DNA replication and cell division (part II)
19:00. Dinner

Day 2: August 19, 2023 (Saturday)

09:00 – 10:00. Transcription: DNA to RNA (Prokaryotic and eukaryotic)
10:00 – 10:05. Short break
10:05 – 11:05. RNA splicing
11:05 – 11:25. Tea
11:25 – 13:00. Epigenetics of gene expression
13:00 – 14:00. Lunch
15:00 – 16:00. Translation
16:00 – 16:20. Tea
16:20 – 18:00. Problem solving Central Dogma

Day 3: 20, 2023 (Sunday)

09:00 – 10:00. Biotechnology: recombinant DNA technology introduction

10:00 – 10:05. Short break

10:05 – 11:05. Recombinant DNA technology tools and techniques

11:05 – 11:25. Tea

11:25 – 13:00. Genetic engineering in plant sciences

13:00 – 14:00. Lunch

14:00 – 15:00. Gene cloning and DNA analysis in medicine

15:00 – 16:00. Problem solving recombinant DNA technology

16:00 – 16:20. Closing ceremony (Tea and Certificate distribution)