



Next-Gen DNA Sequencing: Exploring Technologies and Applications in Microbial and Cancer Genomics

Workshop Coordinators:

Dr. Hany Kamal

Dr. Mai Lotfy

Venue:

**Virology and Immunology Unit,
Cancer Biology Department, NCI, Middle Building, 4th floor.**

Number of Attendees:

15 Person

Fees of the Workshop
Post-graduates: 3,000 EGP
Undergraduates: 2,000 EGP

Contact us:
Mrs. Amal saeed
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**15-18 NOVEMBER
2025**



Saturday
15-11
2025

Registration

09:30
10:00

Saturday
15-11
2025

Day 1

10:00
15:00

10:00-10:30

Welcome and Introduction Session
Prof. Samah Loutfy

10:30-11:30

Genetic Information Flow and Mutations:
Foundations of Molecular Biology
Dr. Amira Salah

11:30-12:00

Coffee Break

12:00-13:00

First Generation DNA Sequencing Technologies
Dr. Enas Reda

13:00-15:00

Second Generation DNA Sequencing Technologies
(Next Generation Sequencing) and its Applications
Dr. Ola Sayed



Sunday
16-11
2025

Day 2

10:00
15:30

10:00-13:00 Comparative Workflows of Leading NGS Platforms
Dr. Mai Lotfy

13:00-13:30 NGS Lab Tour: Exploring Technology and Tools.
Dr. Ola Sayed

13:30-14:00 Coffee Break

14:00-15:30 Hands on Session 1: Library preparation
Dr. Auhood Nassar
Dr. Ola Sayed

Monday
17-11
2025

Day 3

10:00
12:30

10:00-14:00 Hands on Session 2: Library preparation (Continued)
Dr. Enas Reda
Dr. Amira Salah

12:00-12:30 Coffee Break

Tuesday
18-11
2025

Day 4

10:00
15:30

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- 10:00-12:30** Upstream Analysis of NGS Data: A Bioinformatics Approach
Prof. Dr. Hanaa Alam El-Din
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- 12:30-13:00** Coffee Break
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- 13:00-15:00** Third Generation Sequencing and Microbial Genomics
Dr. Auhood Nassar
Dr. Mai Lotfy
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- 15:00-15:30** Workshop Wrap-up and Q&A Session
Prof. Dr. Samah Loutfy