









Applications of Next Generation Sequencing in Cancer Biology

Focusing on Both Theoretical and Practical Aspects

November 23-26, 2024

Venue

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

Number of Attendees:

15 person

Fees:

Post-graduates: 1500 EGP

Under-graduates: 1250 EGP



Aim of Workshop: The workshop is designed to empower researchers and clinicians with the knowledge and skills necessary to leverage NGS for innovative applications in cancer research and virology.

Key Takeaways from the NGS Workshop:

- Participants will learn about the principles and methodologies underlying NGS
- The workshop will offer hands-on experience with NGS workflows, including sample preparation, library construction, and data analysis.
- Participants will gain insights into how NGS contributes to personalized medicine by identifying biomarkers for diagnosis and treatment of cancer.

Scientific Committee:

Prof. Dr. Samah Aly Loutfy

Head of Cancer Biology Department, Virology and Immunology Unit, Cancer Biology Department, National Cancer Institute, Cairo University.

Prof. Dr. Hanaa Alem El-Din

Professor, Virology and Immunology Unit, Cancer Biology Department, National Cancer Institute, Cairo University.

Prof. Dr. Waleed Seif El-Din

Professor, Virology and Immunology Unit, Cancer Biology Department, National Cancer Institute, Cairo University.

Dr. Ola Ahmed

Assistant Professor, Virology and Immunology Unit, Cancer Biology Department, National Cancer Institute, Cairo University.

Dr. Auhood Nassar

Lecturer, Virology and Immunology Unit, Cancer Biology Department, National Cancer Institute, Cairo University.

Dr. Amira Salah

Lecturer, Virology and Immunology Unit, Cancer Biology Department, National Cancer Institute, Cairo University.

Dr. Mai Lotfy

Lecturer, Virology and Immunology Unit, Cancer Biology Department, National Cancer Institute, Cairo University.

Dr. Enas Reda

Lecturer, Virology and Immunology Unit, Cancer Biology Department, National Cancer Institute, Cairo University.

Dr. Hany Kamal

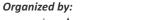
Lecturer, Virology and Immunology Unit, Cancer Biology Department, National Cancer Institute, Cairo University.

Dr. Nasra Fathy

Ph.D Researcher, Virology and Immunology Unit, Cancer Biology Department, National Cancer Institute, Cairo University.











Workshop Agenda

Day1: Noven	nber 23, 2024	Small Hall
10:00-11:00 11.00-12.00	Welcome and Introduction Session Genetic Mutations	Prof. Dr. Samah lotfy Dr. Auhood Nassar Dr. Mai Lotfy
12:00-12.30	Coffee Break	
12.30-14.00 14.00-15.00	Overview on Sequencing Generations Ion-torrent NGS Platform Work Flow: Library Preparation. Theoretical	Dr. Mai Lotfy - Dr. Hany Kamal Dr. Amira Salah
Day 2: November 24, 2024 Small Hall		
10.00-11.00	Ion-torrent NGS Platform Work Flow:	Dr. Enas Reda
11.00-12.00	Template Prep "Emulsion PCR". Theoretical lon-torrent Sequencing Technology. Theoretical	Dr. Ola Ahmed
12.00-12.30	Coffee Break	
Day 2: November 24, 2024 Labs of Virology and Immunology Unit, Cancer Biology Department		
12.30-15.30	Hands on Session 1: Ion-torrent Library Preparation	Dr. Amira Salah Dr. Enas Reda Dr. Nasra Fathy
Day 3: November 25, 2024 Labs of Virology and Immunology Unit, Cancer Biology Department		
10.00-14.00	Hands on Session 2: Ion-torrent Library Preparation <i>(continued)</i>	Dr. Auhood Nassar Dr. Mai Lotfy Dr. Shaimaa Saeed
14.00-15.00	Hands on session 3: Examining the Chips and Kits Utilized in the Ion Chef System for Template Preparation.	Dr. Ola Ahmed
Day 4: Nove	mber 26, 2024	Small Hall

10.00-14.00 Basics on Data Analysis Dr. Hanaa Alem El-Din

Dr. Ola Ahmed

14.00-14.30 Coffee Break

14.30-15.30 Oncomine Solutions for oncology testing from thermofisher Sponsered by (Analysis Company)

Organized by:



