



Annual Conference of
NCI
Cairo University

BGO Bridging Gaps in
2024
Oncology
Bridging Gaps in Oncology
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20/30
NCI, EGYPT

Shaping
The Future

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

Contact us

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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.

Organized by:



Workshop Agenda

Day 1: November 23, 2024

Small Hall

10:00-11:00 Welcome and Introduction Session
11:00-12:00 Genetic Mutations

Prof. Dr. Samah lotfy
Dr. Auhood Nassar
Dr. Mai Lotfy

12:00-12.30 Coffee Break

12.30-14.00 Overview on Sequencing Generations
14.00-15.00 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:
Template Prep "Emulsion PCR". Theoretical
11.00-12.00 Ion-torrent Sequencing Technology. Theoretical

Dr. Enas Reda
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
(continued)

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: November 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
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