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ICESCO

REINFORCING CAPACITIES OF STAKEHOLDERS IN INNOVATIVE TECHNOLOGIES TO DEVELOP A CRITICAL MASS AT THE LEVEL OF THE MEMBER STATES: ICESCO'S 1ST INTERNATIONAL NEXT GENERATION SEQUENCING DATA ANALYSIS WORKSHOP

“Building Tomorrow's Global Genomic Workforce ”

Programme

28th September 2023



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ICESCO | Turkiye | Pakistan



Description

In the current era, next-Generation sequencing technologies (NGS) have become an essential part of all the major disciplines in life sciences research and medical diagnostics. Being a component of big data science in life sciences, the NGS generated data is not only quantitatively enormous but also very complex, which requires qualified bioinformaticians and computer scientists to analyze. The NGS data analysis due to its enormity and complexity is very challenging to process, especially for those professionals in life sciences who have limited knowledge about NGS. Thus for the benefit of life scientists the adaptation to new tools, terminologies, and workflows are the need of the hour so as to enable them to understand and infer results accurately. To train and build workforce in genomic big data science, The Sector of Science and Technology at the Islamic World Educational, Scientific and Cultural Organization (ICESCO) is taking the initiative to start a series of workshops and seminars for its member states' life scientists and medical specialists. As a first step, an NGS data analysis workshop is being held in partnership with INTERGEN (Genetics and rare disease diagnosis Centre), Turkiye along with local educational institutions/universities from Pakistan is being organized for member states, which will allow participants to acquire the knowledge to advanced steps of NGS data analysis. After the workshop the trained workforce will be well on their way to becoming qualified partners for bioinformaticians in their teams.

Participants

- The event is intended for life sciences, medical researchers and lab technologists who want to analyze Next-Generation sequencing data.
- The prerequisite is basic knowledge of molecular biology and computer literacy.

Chief Organizers



Prof. Dr. Raheel Qamar
ICESCO



**Prof. Dr. Serdar
Ceylaner**
INTERGEN

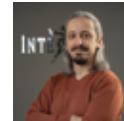


Dr. Malecha Azam
COMSATS UNIVERSITY
ISLAMABAD

Trainer

Dr. Haldun Dogan

Intergen Genetics and Rare Diseases Diagnosis Center,
Turkiye



Participating Institutions

Organizers

Dr. Humaira Ayub

Pak-Austria Fachhochschule Institute of Applied
Sciences and Technology, KPK, Pakistan



Dr. Aftab Ali Shah

University of Malakand, KPK, Pakistan



Prof. Dr. Naghmi Asif

Islamabad Medical and Dental College, Islamabad



ONLINE WORKSHOP OUTLINE

NGS DATA ANALYSIS

Duration	Description	Speaker
09:00-09:10	ICESCO	Prof. Dr. RAHEEL QAMAR
09:10-09:30	INTERGEN	Prof. Dr. SERDAR
09:30-10:30	NGS THEORY	Dr. HALDUN DOGAN
11:00-12:00	DATA TYPES	Dr. HALDUN DOGAN
13:00-14:00	SAMPLE ANALYSIS	Dr. HALDUN DOGAN
14:30-15:30	SAMPLE ANALYSIS	Dr. HALDUN DOGAN
15:30-16:00	Q&A	Dr. HALDUN + TEAM

For Registration

Participants will be given certificates.

<https://docs.google.com/forms/d/e/1FAIpQLSeALuHXUspIu6u7xvMugvNU0c493FgrBka1NvDlwSPiZwqzg/viewform>

Time : GMT+3

Zoom Meeting



<https://zoom.us/j/91781060346?pwd=T2o1RUk5TUV5UGJnR0FqLOR3WFRTZz09>

Meeting ID: 917 8106 0346

Password: 343007