











Online Certificate Course

Molecular Oncology, Infectious and Medical Virology, Clinical Relevance in Prognostics and R&D

DNA Labs

A Centre For Applied Sciences

For

Biotechnology, Microbiology, Biochemistry, Molecular Biology, Forensic Sciences, Medical Lab Technology, Med. Biotech & Med. Microbiology

Be A Molecular Virologist
Hope and Scope





- **≻**Concepts
- > Experiments
- > Protocols

E-Virology Practicals and Live Demonstrations from DNA Labs Dehradun

Invest in Knowledge Bank



A Batch: 20-Mar-2023 B Batch: 01-Apr-2023

Programme A (1 Week Duration)

BASICS OF VIROLOGY AND ITS NEED

- Basics First: Live/ Online Demonstrations of DNA Labs- A Centre for Applied Sciences, Dehradun
- 2. Good Laboratory Practices (GLPs) in Virology Laboratories
- 3. Biosafety Guidelines for Virology Laboratories
- Specimen collections, transportation, storage and handling in Virology Labs, Diagnostics Centre and Vaccine Production.



Programme B (15 Days Duration)

FOUNDATION PROGRAMME IN VIROLOGY LABORATORIES

All the contents of Programme A and the following:

- Levels of Containment: BSL-1, BSL-2, BSL-3, BSL-4, its contacts, hope and scope in India.
- Setting up of clinical and Diagnostics Virology Laboratories; with respect to Herpes simplex virus, HBV, HCV, HIV, SARS-CoV-2, H1N1, H4N1, H3N2, Zika virus, Ebola Virus, etc.



- 3. Cellular, Molecular and Recombinant tools and techniques in Advanced Virology Laboratories.
- Nucleic Acid Isolation from DNA Viruses and Retroviruses by the following methods:
 - Silica Column Methods
 - · Magnetic Beads Methods
 - Semi-automated Methods
 - Fully Automated Methods
 (For Herpes simplex virus, HBV, HCV, HIV, SARS-CoV-2, H1N1, H4N1, H3N2, Zika, Ebola Virus, etc.)

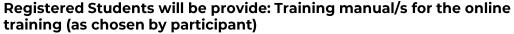


Programme C (01 Month Duration)

MOLECULAR ONCOLOGY, INFECTIOUS AND MEDICAL VIROLOGY; CLINICAL RELEVANCE IN PROGNOSTICS AND R & D

All the contents of Programme A, B and the following:

- Viruses associated with Carcinomas; its diagnostics methods, modern approaches and advanced methods in Research Practical Demonstration on the following:
 - Human Papilloma Virus (HPVs)
 - Epstein Barr Virus (EBV)
 - Herpes Simplex Virus-8 (HSV-8)
 - Kaposi Sarcoma assoviated Herpes (KSHSV)
 - Merkel Cell Polyomavirus (MCPyV)
- 2. Blood Transfusion and Virology:
- Nucleic Acid Amplification tools and techniques (NAATs) for the screening of viruses and other pathogens in Blood banks.
- 4. Significance of advanced Biotech, Bioinformatics, Artificial Intelligence in Blood transfusion medicines.
- Advanced Cellular and Molecular Characterisations [e.g. Transcription Mediated Amplification Technologies (TMA), NASBA, LAMP, Nested and Semi-Nested Multiplexing of the genes, Reverse Transcriptase RT-PCR, PCR] for research, diagnostics, and vaccine production of:
 - Novel Coronavirus (SARS-CoV-2)
 - Influenza A (H1N1) Pandemic strains
 - Zika Virus
 - Ebola Virus
 - Dengue and Chikungunya Virus
- 6. Guidance for Virology Laboratory Setup, Scientific Attitude Development and Placement Assistance.



- Assistance to clear any doubts and to clarify all the questions.
- Assistance to start own laboratories.
- Assistance to publish paper and Review Articles.

Post Training programs, participant will get, certificate soft copy and Hard copy (will be courier) from DNA Labs-A Centre for Applied Sciences.

Separate Certificates will be provided for: Project (if preparing a project Report/Thesis) & A certificate for Professional Training

Program Name	Duration	Program Code	Program Fee INR
Program A	01 Week	ONCO-01	800/-
Program B	15 Days	ONCO-02	1400/-
Program C	01 Month	ONCO-03	2400/-

Timings: Evening: 05 PM to 07 PM
Sessions can also be taken and covered on Sundays and Holidays
(Monday to Friday)

Fee:

Account Name : - DNA Labs- A Centre for Applied Sciences,

State Bank of India A/C No.:- 38078066142, IFSE code: SBIN0021477, Dehradun,

Uttarakhand,

For Google pay, Phone pay, Paytm: 9027312357



For Registration and any Queries:

Dr. Narotam Sharma, Scientist and Head, DNA Labs-A Centre for Applied Sciences, Dehradun

Call: +91-9557650069 sharmanarotam5@gmail.com