



**The Nigerian Institute of Science  
Laboratory Technology**



*In Collaboration with*

**inqaba biotec**

*Announce a Five-Day*

**Workshop on**

**Advance Workshop on Molecular Techniques /  
Biotechnology**

**For**

**Scientists, Technologists, Research Officers, Scientific Officers, Project  
Managers and Students in Tertiary Institutions, Research Institutes,  
Government Agencies, Industries, NGOs etc.**

**VENUE:**

**Headquarters of NISLT, Ibadan, Oyo State.**

**DATE:**

**5<sup>th</sup> – 9<sup>th</sup> June, 2017**



**1.0 The workshop**

- 1.1 Nigerian Institute of Science Laboratory Technology in collaboration with inqaba biotec wishes to announce the workshop aimed at updating the knowledge capabilities of Nigerian technologists / scientists in the area of molecular techniques / Biotechnology.
- 1.2 The purpose of this workshop is to provide further practical knowledge in the area of Molecular / Biotechnology techniques. This course is meant for those that are working in the specified area and needs further training and exposure. Newcomers are also allowed.
- 1.3 Areas to be covered include -
- Regulation of laboratory standards
  - The role of NISLT
  - Safety in molecular / Biotechnology Laboratory
  - Methods of specimen collection, preservation and transportation to laboratory
  - Basic techniques in molecular biology/ biotechnology
  - Application of molecular techniques for the detection and identification of nucleic acids
  - Protein analysis and designing of PCR primers
  - Molecular biology typing techniques with emphasis on real time PCR
  - Laboratory methods of isolation of Genomic DNA / Amplification
  - Agarose Gel Electrophoresis of Genomic DNA
  - Primer Design
  - PCR Analysis of extracted DNA
  - DNA sequencing and Alignment @ National Centre for Biotechnology Information (NCBI)
  - Troubleshooting on Agarose Gel Electrophoresis
  - Bioinformatics for gene identification and expression
  - Check, interpretation of result and documentation