ज्ञान-विज्ञान विमुक्तये

ISLAMIAH COLLEGE (AUTONOMOUS), VANIYAMBADI

(Re - accredited by the NAAC with "A" grade)

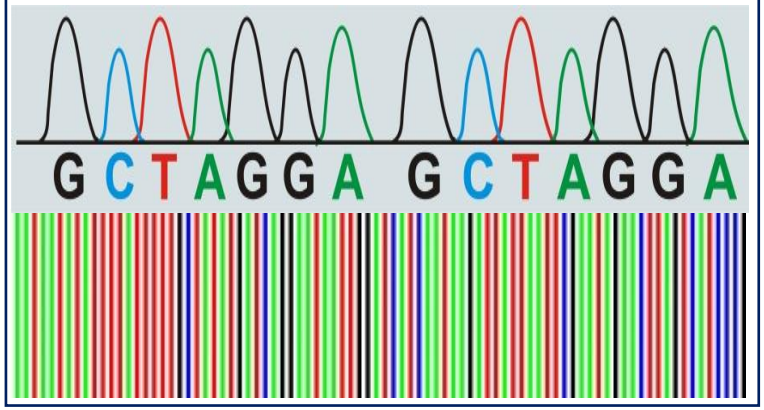
DEPARTMENT OF BIOTECHNOLOGY

Organizes

3 Day Online National Level Workshop on

"DNA barcoding"

May, 22-24, 2020



ABOUT THE COLLEGE

Islamiah College is a symbol of devotion to education and love for learning of rural students of in and around Vaniyambadi who in their zeal for translating into action the message of Sir Syed Ahmed Khan, established the Vaniyambadi Muslim Educational Society in 1901. The Society was registered in 1905 and soon under its auspices the Islamiah Elementary School was started.

In 1915, the society resolved to establish the Islamiah College, and the foundation stone of the college was laid by His Excellency Lord Pentland, the then Governor of Madras Province. With princely donations from the Muslim philanthropists, the College was started in 1919 and got recognition in July 1921 by University of Madras.

Consequent to the establishment of Thiruvalluvar University, this College has been affiliated to Thiruvalluvar University from the academic year 2003-2004. This vibrant Institution is one among those recognized by UGC receiving grants as per section 2 (f) & 12(b) of UGC Act,1956. To its credit it has been awarded "A" grade by NAAC for two times. The Institution has undertaken various sponsored and collaborative research and development projects by National organizations such as UGC, DBT, DST, etc. The Institution has totally 17 Departments offering 43 programmes including 14 UG, 9 PG and 20 Research programmes (M.Phil. and Ph.D.).

The College library is one of the best libraries in the entire Thiruvalluvar University area. We have more than 70,000 books, 175 national and international journals & periodicals. Our library is supported by SOUL software and we are the members of INFLIBNET, DELNET, and NPTEL courses.

HOST DEPARTMENT

Islamiah College (Autonomous), Vaniyambadi is the only college in entire Tamilnadu offering B.Sc. Biotechnology under Government Aided Scheme. The Department of Biotechnology was established in the academic year 2006-2007 by offering B.Sc. Biotechnology with the aim to endow the students with extraordinary skills of life making them not just job seekers but also job creators. Later this Department has been elevated to PG Dept. by offering M.Sc. Biotechnology from the academic year 2010-2011. All the basic infrastructural facilities needed for conducting teaching and research programmes in different areas of Biotechnology are readily available in the Department. This Department has now become full fledge research Department with M.Phil. and Ph.D. (Full-Time and Part-Time) from the academic year 2013-14 onwards. The Department is housed in a permanent building consisting of class rooms, well equipped student laboratories, research laboratories and special lab for DNA barcoding technology. The Department conducts high quality scientific research and effectively communicates results through publication and presentation to both academic and public audiences.

The Department has completed one major research project funded by Department of Biotechnology, Ministry of Science and Technology, New Delhi. Recently, we have received significant funding from DBT and DST which has helped us to set up a modern cutting edge facility for biotechnology research. We hope to improve upon it in the near future.

A separate instrumentation room consisting of sophisticated equipment such as PCR – Thermal Cycler, ELISA Reader, Gel Documentation System, Cooling Centrifuge, Micro Centrifuge, Stereo Microscope, Phase Contrast Microscope, UV-VIS Spectrophotometer, High Precision Electronic Balances, Orbital Shaker, Electronic Water bath, Gel Rocker and various types of Electrophoresis unit. The Department has organized National Seminar, State Level Symposium, Extension Activity Programme and Hands on Training Programme at various period of time.

OVERVIEW OF THE PROGRAMME

In early 2003, DNA barcoding was proposed by Paul Hebert as a large-scale science to transform our ability to tell the world's species apart, and just a year later, the Consortium for the Barcode of Life (CBOL) was established to promote DNA barcoding activities across the scientific community. The International Barcode of Life project (iBOL), formally launched in fall 2010, is the largest research program ever undertaken in biodiversity science. Progress towards iBOL's key goal of building a barcoding reference library for all species has been rapid. The Barcode of Life Data Systems (BOLD), which plays a central role in assimilating and organizing barcode data, now holds records for more than 2.5M specimens from nearly 200K named species. The international barcode of life community has achieved great things in its first ten years.

Because of the remarkable progress in sequencing and information technologies, DNA barcoding has significantly helped taxonomists in sorting specimens by highlighting divergent taxa. In changing regime of time, the traditional taxonomy has lagged behind considerably. In this scenario, DNA barcoding is emerged as a powerful tool to unify taxonomy, globally. Unfortunately, in India considerable efforts have not been paved the way for popularization of DNA barcoding.

This workshop is an effort to popularize DNA barcoding, as a taxonomic procedure, across academia and industry to ensure wider acceptance of the technique. With a well proved exercise module the extensive training in DNA barcoding and related bioinformatics, the workshop offers a holistic understanding of DNA barcoding.

ORGANIZING COMMITTEE

CHIEF PATRON

Mr. Mouda Ahmed Basha, B.Com.

President, VME Society.

PATRONS

Mr. Ghani Mohammed Azhar, B.Sc.

General Secretary, VME Society.

Mr. L.M. Muneer Ahmed, B.Sc.

Secretary and Correspondent, Islamiah College.

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Mr. I. Aadil Ahmed, Asst. Prof. of Biotechnology

MODULES

- Introduction to DNA Barcoding
- Extraction of whole genomic DNA
- Quantification of DNA
- Amplification of Barcode region in PCR
- Electrophoresis of PCR products
- Characterization of Amplicon in Gel Doc
- sequence processing and analysis
- Submission of sequence in Genbank, NCBI
- Homology search in blast
- DNA Barcoding of Plants

WHO CAN APPLY?

Graduate/ post-graduate students, research scholars, professionals, faculties from Biotechnology, Bioinformatics, Microbiology, and other life science personnel from Industries and Institutions will benefit.

As number of participants are limited, preference will be given on **First Come First Serve Basis**.

REGISTRATION

All the participants are required to fill up online Registration form before the deadlines.

For Registration, click the given link

https://forms.gle/n72UMDj8SqEBEHTw6

Last date for registration: 20/05/2020

REGISTRATION IS FREE

E- Certificate will be issued

CONTACT

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