







Insight and Hands-on Training Program on Techniques in Biotechnology

July 21-27, 2022

The Last Date of Registration July 7, 2022

UNDER THE AEGIS OF

Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI)

ORGANISED BY

Faculty of Applied Sciences and Biotechnology, Shoolini University

In collaboration with

SAIF/ CIL Panjab University, Chandigarh

ABOUT SHOOLINI UNIVERSITY

Founded by Prof. P.K. Khosla, a visionary academician and research professional, Shoolini University is a research-focused university established in 2009. This innovation-led centre of learning has made giant strides and achieved its vision to be a Top 200 global university in 2022 (THE Impact Rankings 2023) and ranked 801-1000 in QS Global rankings (2022). It has consistently been ranked among India's top universities as per MHRD NIRF (#89), Top 3 private University (QS Global Ranking, 2022), top 10 patent filer in India (IP India), and matches the world's best universities in research output under the guidance of young and dynamic leaders, Prof. Atul Khosla, Vice Chancellor of Shoolini University, and Mr. Vishal Anand, Pro- VC, Shoolini University. A research driven model has been adopted to achieve excellence in various fields of Basic Sciences, Biotechnology, Engineering, Pharmaceutical Sciences and Management Sciences, Law, Yoga and Liberal Arts.

FACULTY OF APPLIED SCIENCES AND BIOTECHNOLOGY

The Faculty of Applied Sciences and Biotechnology at Shoolini University attracts the best students of India for its Biotechnology, Microbiology, Nutrition and Food Technology programs at UG, PG and doctoral level. It has been recognised for its excellent research in Biotechnology Sciences by CCI and Gujarat Technological University. Aligned with Shoolini University's thrust areas of research, the focus of the department is to harness the Himalayan biodiversity for societal benefits. Research grants worth Rs. 13 crores have been generated from DST, DBT, ICMR, NMHS, HIMCOSTE and MoFPI. Scientists of the department have filed 200+ patents in translational research of international importance, with UG, PG, and doctoral students as one of the inventors. More than 140 students have been awarded doctoral degrees. The faculty has been sanctioned a food-testing laboratory by MoFPI, DST- FIST grant for infrastructure development, and skill development grant under DBT-HIMCOSTE program. The faculty is emerging as one of the leading center for Biotechnology research in India.



CHIEF PATRONS

Prof. P.K Khosla • Prof. R.C. Sobti • Mr. Satish Anand

PATRONS

Mrs. Saroj Khosla • Prof. Atul Khosla • Mr. Vishal Anand

CONVENORS

Prof. Anuradha Sourirajan • Prof. Sunil Puri • Prof. JM Julka

CO-CONVENORS

Prof. Dinesh Kumar • Prof. Kamal Dev • Prof. Saurabh Kulshreshtha

ORGANIZING SECRETARIES

Dr. Nitika Thakur • Dr. Chandresh Kumari

ORGANIZING COMMITTEE

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ABOUT THE DST-STUTI TRAINING PROGRAM ON TECHNIQUES IN BIOTECHNOLOGY

The COVID-19 pandemic has highlighted the importance of biotechnology field to the society. Today's research is mainly focussed on the techniques to understand the molecular aspects relevant to health, environment, food, etc. The current training program is a step in this direction to provide hands on training on modern techniques of Life Sciences/Biotechnology to young professionals in teaching institutes. The training session will cover the fundamental aspects of Molecular Biology, which forms the basis of Biotechnology.

SCHEDULE FOR DST-STUTI TRAINING PROGRAM ON TECHNIQUES IN BIOTECHNOLOGY

Day 1 Inauguration and Familiarization of the Research Laboratories

Days	Expert Talk (9:15-10:00 AM)	Technical Talk (10:00-10:30 AM)	Experiment details (10:00-5:00 PM)
Day 1	Prof. R C Sobti Professor (Emeritus) Dept. of Biotechnology, PU and EX VC, PU, Chandigarh.	Prof. Saurabh Kulshrestha/ Dr Chandresh Kumari	Experiment-I: Isolation of Genomic /Plasmid DNA from bacterial cells Experiment-II: Agarose gel electrophoresis for separation of Genomic/Plasmid DNA
Day 2	Dr Rashmi Sharma Scientist-F, SEED, Council of Science and Technology Communication Division, DST, New Delhi.	Dr Lokender Kumar/ Dr Swarup Roy	Experiment-III: Polymerase chain reaction for amplification of DNA Experiment-IV: Agarose gel electrophoresis of amplified DNA
Day 3	Dr PK Seth Former Director, ITRC, Lucknow and Founder/CEO Biotech Park.	Dr Vihang Ghalassi/ Dr Gaurav Saxena	Experiment-V: Elution of DNA from gel, Restriction digestion of DNA and its analysis Experiment-VI: DNA ligation and its analysis
Day 4	Narendra Chirmule Co-founder and CEO, Symphony Tech Biologics	Prof Dinesh Kumar/ Dr Rupak Nagraik	Experiment-VII: Competent cells preparation Experiment-VIII: Transformation of competent cells by plasmid DNA
Day 5	Dr Anand Kumar Bachhawat Professor, IISER Mohali, Punjab.	Prof Kamal Dev/ Dr Pankaj Chauhan	Experiment-IX: Screening of transformants by blue-white screening
Day 6	Dr Alok Sinha Staff Scientist-7 NIPGR, New Delhi.	Dr Nitika Thakur/ Dr Avinash Sharma	Experiment-XII: Verification of transformants by colony PCR and its analysis
Day 7	Dr Manishi Mukesh Principal Scientist, ICAR-NBAGR, Karnal, Haryana.	Dr Azhar Khan/ Dr Chandresh Kumari	Experiment-X: Basics of plant tissue culture: Media preparation and inoculation of explants Experiment-XI: Basics of Animal Cell Culture: Media preparation in animal tissue culture lab. and to observe cell lines

REGISTRATION DETAILS

How to Apply

Application/Bio-data form is attached with brochure and the same can also be downloaded from www.shooliniuniversity.com and submit the same to the following email: stuti@shooliniuniversity.com

Last Date to apply: 7th July 2022

Program is sponsored by DST, Govt. of India

*Limited seats available; No Registration Fee. Free Accommodation.

CONTACT DETAILS

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ABOUT SOLAN

Known as the "Mushroom City of India" is a beautiful place with hills and mountains abound. Solan is surrounded by high peaks. To the east of the town is the Matiul Peak with a height of 1,986 meters; to the north lies the Karol Peak, which is also the highest peak of the region with a height of 2,000 meters. Solan derives its name from Goddess Shoolini who is the main deity of the region. The pleasant climate of this place round the year makes it an ideal destination for all season.



HOW TO REACH



By Road: Solan is well connected by an extensive network of roads. One may reach conveniently by taxi or bus from Delhi.



By Air: The nearby airports are Chandigarh and Shimla.



By Rail: The nearest broad gauge railway station is at Kalka, while the closest narrow gauge railway station is at Solan.