



ATMIYA University, Rajkot
Faculty of Science
Department of Life Sciences

Educational Activity- Workshop

TITLE OF THE EDUCATIONAL Activity: Five-Day National Workshop on “Basic and Advanced Techniques of Protein Biology”

DATE: 3rd to 7th October, 2023

SCHEDULE:

Day-1 (03/10/2023) 08:00 am to 3:00 pm; Venue: E-YUVA Centre, Atmiya University

Day-2 (04/10/2023) 08:00 am to 5:00 pm; Venue: E-YUVA Centre, Atmiya University & Department of Biosciences, Saurashtra University, Rajkot

Day-3 (05/10/2023) 08:00 am to 3:00 pm; Venue: E-YUVA Centre, Atmiya University

Day-4 (06/10/2023) 08:00 am to 5:00 pm; Venue: E-YUVA Centre, Atmiya University

Day-5 (07/10/2023) 08:00 am to 3:00 pm; Venue: E-YUVA Centre, Atmiya University

RESOURCE PERSON:

1. **Dr. Manas Kumar Santra**, *National Center for Cell Science, Pune*
2. **Dr. Varun Shah**, *Gujarat Biotechnology University, Gandhinagar*
3. **Dr. Rishikesh Joshi**, *Gujarat University, Ahmedabad*
4. **Dr. Ruta Nachane**, *Cytiva, Mumbai*
5. **Dr. Krishna Joshi**, *Atmiya University, Rajkot*
6. **Dr. Jigna Tank**, *Saurashtra University, Rajkot*
7. **Dr. Hitarth Bhatt**, *Atmiya University, Rajkot*
8. **Dr. Bhargav Waghela**, *Atmiya University, Rajkot*

NO. OF BENEFICIARIES:

30 Participants

19 research scholar from various institutions such as MS University, Baroda, Gujarat University, Ahmedabad, Atmiya University, Rajkot and Saurashtra University, Rajkot

11 Students of PG students from various institutions such as Parul University, Atmiya University, Rajkot and Saurashtra University, Rajkot

BRIEF SUMMARY: The Five Day National Workshop on “Basic and Advanced Techniques of Protein Biology” was organized by Department of Life Sciences & E-YUVA Centre, Atmiya University, Rajkot in collaboration with M&N Virani Science college, & Department of Biosciences, Saurashtra University, Rajkot. The Complete event was planned and executed under the guidance of Dr. Rohan Pandya, HoD, Department of Life Sciences, Atmiya University, Rajkot; Dr. Neepa Pandhi, HoD, Department of Microbiology, MNVSC, Rajkot and Prof. Ramesh Kothari, Department of Biosciences, Saurashtra University, Rajkot. Further, conduction of the theory and practical sessions were executed by the active cooperation of Dr. Bhargav Waghela, Dr. Krishna Joshi, Dr. Hitarth Bhatt and Dr. Jigna Tank. All the resource person were actively engaged in their theory and practical sessions and were really interactive and beneficial. Various aspects of Protein Biology have been discusses during expert talks. The practical sessions covered various aspects such as Protein extraction, estimation, separation by chromatography and Gel Electrophoresis. Few sophisticated techniques including western blotting and FPLC were covered during the workshop. Moreover, the image analysis and documentation session was also conducted. The activities throughout the workshop were very interactive and beneficial to the participants.

FACULTY INCHARGE:

Dr. Bhargav Waghela, from Department of Life Sciences, Atmiya University, Rajkot

Dr. Krishna Joshi, from Department of Life Sciences, Atmiya University, Rajkot

Dr. Hitarth Bhatt, from Department of Life Sciences, Atmiya University, Rajkot

Dr. Jigna Tank, from Department of Biosciences, Saurashtra University, Rajkot

Lab Assistant:

Ms. Mansi Panchasara, Ms. Dhruvi Vekariya & Ms. Ritu Shah from Department of Life Sciences, Atmiya University, Rajkot

FUNDING AGENCY : Gujarat State Biotechnology Mission, Department of Science and Technology, Government of Gujarat

LEVEL (UNIVERSITY/ STATE/NATIONAL/ INTERNATIONAL): National

OUT COMES: Overall the aim of the workshop was successful for the Participants includes PG students and Research scholars from various institutions in terms of achieving basic knowledge on protein biology, The clear and concise guidance on the various aspects of protein biology such as Protein extraction, estimation, separation by chromatography and Gel Electrophoresis, western blotting and FPLC and its importance in research is more beneficial for the participants. The hands on session covered the insights of practical

aspects as well as technical challenges of protein extraction, estimation, separation and FPLC. Overall, the detailed and insightful knowledge of various aspects of protein biology with its practical applications has been learnt by the participants.

PHOTO GALLERY / SCREEN SHORT:



All Participants with Chief Guest



Chief guest Prof. Girish Bhimani, Hon. Vice chancellor, Saurashtra University, Rajkot discussing importance of the national workshop



Prof. Shiv Tripathi, Hon. Vice chancellor, Atmiya University, Rajkot addresses the gathering



Dr. Hitarth Bhatt discussing about various chromatographic techniques



Dr. Bhargav Waghela discussing about Western blotting



Dr. Varun Shah discussing about Protein protein interactions



Dr. Krishna Joshi discussing about various chromatographic techniques



Ms. Ruta Nachane discussing about FPLC



Dr. Manas kumar Santra Discussing about Post-translational modification



Participants performing chromatographic techniques



Ms. Ruta demonstrating FPLC instrumentation



Dr. Rishikesh joshi discussing about basic aspects of Protein biology



Dr. Bhargav Waghela demonstrating SDS-PAGE and Western blotting