



**ATMIYA University, Rajkot**  
**Faculty of Science**  
**Department of Life Sciences**

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**Educational Activity- Workshop**

<b>TITLE OF THE EDUCATIONAL Activity:</b> One Day Hands-on Workshop on “Molecular Docking & Drug Discovery”
<b>DATE:</b> 26-08-2023
<b>SCHEDULE:</b> 09:00 am to 4:00 pm ; Venue: Seminar Hall, (Room No. 425) <b>09:00am to 11:00am;</b> Navigating Drug Discovery Landscapes: Unveiling Principles, Promises and Challenges by Prof. Chandrajit Lahiri, Department of Biotechnology, Atmiya University, Rajkot <b>11:00 am to 11:15am</b> BREAK <b>11:15am to 01:15pm</b> Basic Aspects of Molecular Docking; Dr. Parth Thakor, Charotar University of Science and Technology, Changa <b>01:15pm to 02:00pm</b> LUNCH <b>02:00pm to 04:00pm</b> Hands-on Practical Session; Dr. Parth Thakor, Charotar University of Science and Technology, Changa
<b>RESOURCE PERSON:</b>  1. <b>Prof. Chandrajit Lahiri</b> , <i>Department of Biotechnology, Atmiya University, Rajkot</i> 2. <b>Dr. Parth Thakor</b> , <i>Charotar University of Science and Technology, Changa</i>
<b>NO. OF BENEFICIARIES:</b>  76 Students of PG-Sem 3 Life Sciences, 15 research scholar from Department of Life Sciences & Chemistry from Atmiya University, Rajkot & Department of Chemistry, Marwadi University, Rajkot. 10 Faculties from Department of Life Sciences & Chemistry, Atmiya University, Rajkot and Department of Microbiology, MNVSC, Rajkot

**BRIEF SUMMARY:** A One Day Hands-on Workshop on “Molecular Docking & Drug Discovery” on 26<sup>th</sup> August, 2023 was organized by Department of Life Sciences, Atmiya University, Rajkot. The Complete event was planned and executed by the active cooperation and guidance of Dr. Rohan Pandya, HoD, Department of Life Sciences, Atmiya University Rajkot and Faculty Dr. Bhargav Waghela. Both the resource person are actively engaged in research of Molecular Docking & Drug Discovery. Prof. Lahiri discussed on “Navigating Drug Discovery Landscapes: Unveiling Principles, Promises and Challenges”. It was really interactive and enlightening talk. Thereafter, Dr. Parth have discussed on theoretical aspects of various databases, selection of molecules and how it can be done using structure databases as well as Molecular Docking”. The hands-on session on docking was conducted by Dr. Parth. The activities throughout the workshop were interactive and beneficial to the PG students, research scholars and Faculty members.

**FACULTY INCHARGE:**

**Dr. Bhargav Waghela**, from Department of Life Sciences, Atmiya University, Rajkot  
Lab Assistant: **Ms. Mansi Panchasara, Ms. Dhruvi Vekariya** from Department of Life Sciences, Atmiya University, Rajkot

**FUNDING AGENCY :** NA

**LEVEL (UNIVERSITY/ STATE/NATIONAL/ INTERNATIONAL):**University

**OUT COMES:** Overall the aim of the workshop was successful for the PG students, Research scholar and faculty members in terms of achieving basic knowledge on databases, various aspects of molecular docking and drug discovery. The clear and concise guidance on the Docking process and preparation of docking molecules such as preparation of protein and preparation of ligands and its important features in drug discovery at various levels is more beneficial for the participants interested in future research work. The hands on session covered the insights of practical aspects as well as technical challenges of molecular docking process. Overall, a brief glimpse on docking process and its relation with drug discovery has been learnt by the participants.

**PHOTO GALLERY / SCREEN SHORT:**



All Participants with Speakers (Resource Person)



Floral welcome of Dr. Parth Thakor, CHARUSAT, Changa by Dr. Abhijeet Joshi



Floral welcome of Prof. Chandrajit Iahiri, Atmiya university, Rajkot by Dr. Krishna Joshi



Prof. Lahiri discussing various aspects of Drug designing



Dr. Thakor discussing about PDB database for Docking



Felicitation of Prof. Lahiri by Dr. Krishna Joshi



Felicitation of Dr. Thakor by Dr. Hitarth Bhatt



Dr. Thakor Discussing about molecular docking during the hands on session