



Criterion-1: Curricular Aspects

Key Indicator – 1.3: Curriculum Enrichment

Metric: 1.3.3

Programme: M.Sc. Biophysics

Syllabus	https://www.du.ac.in/uploads/new-web/syllabi/27122021_M.Sc.%20Biophysics.pdf
List of Students	Annexure-I
Sample Project Reports	Annexure-II



Annexure-I

List of Students



Biophysics

University of Delhi South Campus

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Ref:

Date: 18-Jan-2024

To Whom It May Concern

This is to certify that Department of Biophysics Started M.Sc. Biophysics Course in Biophysics in Academic Year of 2020-21 and followed to that 6 students completed the research project (M.Sc. Dissertation) in the academic year of 2020-22. In the academic year of 2021-23, 7 students completed the research projects. Total 13 students completed the project in the span of 2018-23.

Yours sincerely

Mainak Kumar

HEAD / HEAD
जि. भौतिकी विभाग
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(Head of the Department)

DEPARTMENT OF BIOPHYSICS
UNIVERSITY OF DELHI SOUTH CAMPUS

Dissertation Topics - M.Sc. semester IV (2022)

S. No.	Topic	Student
1.	Comparative analysis of Hydrolytic Profiles & Diversity of Oxacillinase Subfamilies.	Aynal Hoque
2.	Role of pro-sequences in protein folding and its analysis in Bacterial proteins.	Kshitij Kathait
3.	Investigation of phylogeny and hydrolytic profiles of Oxacillinase Subfamilies.	Pamei Champoudai
4.	Evolutionary and Functional Analysis of Oxacillinase Subfamilies.	Aayush Shrivastav
5.	In-Silico analysis of protein containing pro-sequences in Archea.	Gunjan Saini
6.	Role of pro-sequences in protein folding and its analysis in viral proteins.	Alok Yadav

DEPARTMENT OF BIOPHYSICS
UNIVERSITY OF DELHI SOUTH CAMPUS

Dissertation Topics - M.Sc. Semester IV (2023)

S. No.	Topic	Student
1.	Investigating Therapeutic Properties of Coumarin	Jayesh Jain
2.	Understanding Promiscuity: A Target Perspective	Sachin
3.	Insilico Identification of Ligands Targeting GalR3 Receptor	Ashish Kurmi
4.	Insilico Exploration of GPR173: Predicting Structure and investigating Ligands with small molecules	Neha Yadav
5.	Comparative Analysis of MRI Brain Imaging Data in two Cognitively Decline Populations	Deepak Kumar
6.	Comparative analysis of Beta Lactamases and Penicillin Binding Protein	Rachita Chauhan
7.	Targeting The Nucleocapsid Protein of Sars-Cov-2: A Promising Approach for Antiviral Drug Development	Ravishankar Srivastava



Annexure-II

Sample Project Reports

**COMPARATIVE ANALYSIS OF HYDROLYTIC PROFILES & DIVERSITY OF
OXACILLINASE SUBFAMILIES**

THESIS SUBMITTED TO THE UNIVERSITY OF DELHI
IN THE PARTIAL FULFILLMENT FOR THE DEGREE OF
MASTER OF SCIENCE

in

BIOPHYSICS

2022



AYNAL HOQUE

**DEPARTMENT OF BIOPHYSICS
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CERTIFICATE

This is to certify that the research work embodied in this M.Sc. dissertation thesis entitled, "**COMPARATIVE ANALYSIS OF HYDROLYTIC PROFILES & DIVERSITY OF OXACILLINASE SUBFAMILIES**" during semester IV in the Department of Biophysics, University of Delhi South Campus is in partial fulfillment for the degree of Master of Science in Biophysics. The work presented here demonstrates that the candidate has been trained in the planning, execution, and presentation aspects of the experiments included in this dissertation.

I undertake that I will not publish the results of this thesis in any form without explicit written consent from the thesis supervisor.

Aynal Hoque

Signature of the Candidate

AYNAL HOQUE

Date:

Manish Kumar
21/05/2022

Signature of the Supervisor

DR. MANISH KUMAR

Manish Kumar
21/05/2022

Signature of the HOD

DR. MANISH KUMAR

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ROLE OF PROSEQUENCES IN PROTEIN FOLDING AND THEIR ANALYSIS IN BACTERIAL PROTEINS

Thesis Submitted to the University of Delhi

in the Partial fulfilment for the Degree of

Master of Science

in

Biophysics

2022



Kshitij Kathait

Department of Biophysics

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I undertake that I will not publish the results of this thesis in any form without explicit written consent from the thesis supervisor.

Date: 21/05/2022

Signature of the Candidate

Kshitij Kathait

Signature of the Supervisor

Dr. Manisha Goel

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Investigation of phylogeny and hydrolytic profiles of Oxacillinase subfamilies

THESIS SUBMITTED TO THE UNIVERSITY OF DELHI
IN THE PARTIAL FULFILLMENT FOR THE DEGREE OF
MASTER OF SCIENCE

in

BIOPHYSICS

2022



PAMEI CHAMPOUDAI

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I undertake that I will not publish the results of this thesis in any form without explicit written consent from the thesis supervisor.

Date:

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PAMEI CHAMPOUDAI

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**EVOLUTIONARY AND FUNCTIONAL ANALYSIS OF
OXACILLINASE SUBFAMILIES**

THESIS SUBMITTED TO THE UNIVERSITY OF DELHI
IN THE PARTIAL FULFILLMENT FOR THE DEGREE OF
MASTER OF SCIENCE

in

BIOPHYSICS

2022



AAYUSH SRIVASTAVA

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This is to certify that the research work embodied in this M.Sc. dissertation thesis entitled, "**Evolutionary and Functional Analysis of Oxacillinase Subfamilies**" during semester IV in the Department of Biophysics, University of Delhi South Campus is in partial fulfillment for the degree of Master of Science in Biophysics. The work presented here demonstrates that the candidate has been trained in the planning, execution and presentation aspects of the experiments included in this dissertation.

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Aayush Srivastava

Signature of the Supervisor

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In Silico Analysis of Protein containing Prosequences from Archaea



Gunjan Saini

Department of Biophysics

University of Delhi

The dissertation thesis is submitted to

University of Delhi towards the partial fulfillment

For the degree of

MASTER OF BIOPHYSICS

In

BIOPHYSICS

2022

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Date: 21 May 2022

Grijan Sen

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Gunjan Saini

Signature of the Supervisor

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**ROLE OF PROSEQUENCES IN PROTEIN FOLDING AND ITS
ANALYSIS IN VIRAL PROTEINS**

THESIS SUBMITTED TO THE UNIVERSITY OF DELHI
IN THE PARTIAL FULFILLMENT FOR THE DEGREE OF
MASTER OF SCIENCE

in

BIOPHYSICS

2022



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May 21, 2022

New Delhi

Alok
Alok Yadav

(M.Sc. student)

Manisha
Prof. Manisha Goel

(Supervisor)

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This is to certify that the research work embodied in this M.Sc. dissertation thesis entitled, "TARGETING THE NUCLEOCAPSID PROTEIN OF SARS-COV-2: A PROMISING APPROACH FOR ANTIVIRAL DRUG DEVELOPMENT" during semester IV in the Department of Biophysics, University of Delhi South Campus is in partial fulfillment for the degree of Master of Science in Biophysics. The work presented here demonstrates that the candidate has been trained in the planning, execution, and presentation aspects of the experiments included in this dissertation.

I undertake that I will not publish the results of this thesis in any form without explicit written consent from the thesis supervisor.

Date: 29-05-2023

Ravishankar Srivastava
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RAVISHANKAR SRIVASTAVA

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This is to certify that the research work embodied in this M.Sc. dissertation thesis entitled, **“INVESTIGATING THERAPEUTIC PROPERTIES OF COUMARIN”** during semester IV in the Department of Biophysics, University of Delhi South Campus is in partial fulfillment for the degree of Master of Science in Biophysics. The work presented here demonstrates that the candidate has been trained in the planning, execution, and presentation aspects of the experiments included in this dissertation.

I undertake that I will not publish the results of this thesis in any form without explicit written consent from the thesis supervisor.

Date: 29/05/2023.

Signature of the Candidate

JAYESH JAIN

29/05/2023

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Dr. Sumit kumar Chaturvedi

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This is the certification for the research work in this M.Sc. dissertation thesis entitled, "UNDERSTANDING PROMISCUITY: A TARGET PERSPECTIVE" during semester IV in the Department of Biophysics, University of Delhi South Campus is in partial fulfillment for the degree of Master of Science in Biophysics. The work presented here demonstrates that the candidate has been trained in the planning, execution, and presentation aspects of the experiments included in this dissertation.

I undertake that I will not publish the results of this thesis in any form without explicit written consent from the thesis supervisor.

Date: 30th May 2023

Signature of the Candidate

SACHIN

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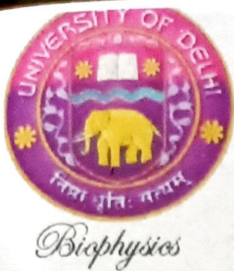
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University of Delhi South Campus

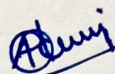
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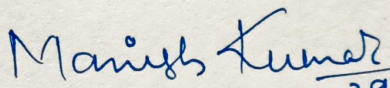
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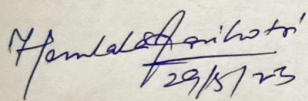
I undertake that I will not publish the results of this thesis in any form without explicit written consent from the thesis supervisor.

Date: 29/05/2023

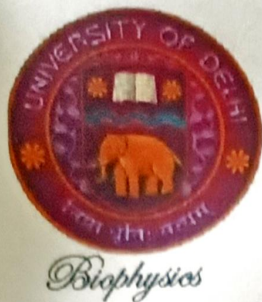

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ASHISH KURMI


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This is to certify that the research work embodied in this M.Sc. dissertation thesis entitled, "INSILICO EXPLORATION OF GPR173: PREDICTING STRUCTURE AND INVESTIGATING LIGAND INTERACTIONS WITH SMALL MOLECULES" during semester IV in the Department of Biophysics, University of Delhi South Campus is in partial fulfilment for the degree of Master of Science in Biophysics. The work presented here demonstrates that the candidate has been trained in the planning, execution, and presentation aspects of the experiments included in this dissertation.

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Date: 29-05-23

Signature of the Candidate

NEHA YADAV

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