



R. J. COLLEGE of Arts, Science & Commerce (AUTONOMOUS)

(Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE of Arts, Science & Commerce)

Opposite Ghatkopar Railway Station, Ghatkopar (West), Mumbai 400086, Maharashtra, INDIA.

Website: www.rjcollege.edu.in Email: rjcollege@rjcollege.edu.in Tel No: +91 22 25151763 Fax No: +91 22 25150957

College is recognized under Section 2(f) & 12(B) of the UGC Act, 1956

Affiliated to UNIVERSITY OF MUMBAI || NAAC Re-Accredited 'A' Grade (CGPA: 3.50)

Date: 20th July 2022

NOTICE

DEPARTMENT OF BIOTECHNOLOGY

A Session on X Ray Crystallography for students of MSc BT I is scheduled on 28th July 2022. All students are requested to attend the session.

Date : 28th July 2022

Day : Thursday

Time: 11:00am to 1:00pm

Venue: Biotechnology Lab


Dr. Sucheta Golwalkar
Department of Biotechnology




Dr. Himanshu Dawda
Principal
RAMNIRANJAN JHUNJHUNWALA COLLEGE
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FLYER



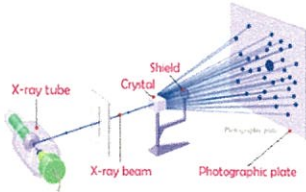
HINDI VIDYA PRACHAR SAMITIS
RAMNIRANJAN JHUNJHUNWALA COLLEGE OF ARTS,
SCIENCE AND COMMERCE (AUTONOMOUS)

Department of Biotechnology

Presents

Inaugural lecture for

MSc. Part I



ON

X-Ray Crystallography

By Dr. Lipi Das

(Postdoctoral Research Associate, ACTREC)

Date: 28th July 2022, Thursday, Time: 11:00 am, Venue: BVOC Lab




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LIPI DAS, Ph. D.

Email: daslipi1292@gmail.com

Mobile: 9769561699

I hold a Ph. D. degree in Life Sciences from the Advanced Centre for Treatment, Research, and Education in Cancer (ACTREC), Tata Memorial Center, with extensive research experience in mass spectrometry-based cancer proteomics. My long-term goal is to work with full dedication and determination in an environment where I can enrich my scientific knowledge and contribute my best towards the advancement of knowledge on the subject and serve the scientific community. I aim to develop and promote creativity and high-order thinking skills that increase the performance of the students.

TEACHING EXPERIENCE

- **September 2016 to March 2022:** Visiting lecturer at the HVPS's Ramniranjan Jhunjhunwala College of Arts, Science & Commerce, Ghatkopar West, Mumbai, for the **M. Sc. Biotechnology students of Mumbai University**. Covered the topics on Molecular structure determination using X-ray diffraction, Structure and analysis using dynamic light scattering (DLS), Mass spectrometry (MS), LC-MS, GC-MS, and surface plasmon resonance methods (Unit III and IV of Paper IV of the M. Sc. Biotechnology syllabus of Mumbai University).
- **July 2016 to January 2020:** Faculty and student trainer and lecturer at the NER-DBT training workshop for "Gene cloning, Protein Biochemistry, Structural Biology & Bioinformatics" organised by the DBT Biotechnology/Bioinformatics Training Centre.

PUBLICATIONS

1. **Lipi Das**, Shashank Shekhar, Pratik Chandrani, and Ashok K. Varma. "In silico structural analysis of secretory clusterin to assess pathogenicity of mutations identified in the evolutionarily conserved regions." *Journal of Biomolecular Structure and Dynamics*. 2021 November 25. PMID: 34821197. DOI: <https://doi.org/10.1080/07391102.2021.2007791>.
2. **Lipi Das**, Vedang Murthy, and Ashok K. Varma. "Comprehensive Analysis of Low Molecular Weight Serum Proteome Enrichment for Mass Spectrometric Studies." *ACS Omega*. 2020 October 29; PMID: 33195941. DOI: <https://doi.org/10.1021/acsomega.0c04568>.
3. Lumbini R. Yadav, Pankaj Thapa, **Lipi Das**, Ashok K. Varma. "Structureomics in Systems-Based Drug Discovery. In: Singh S. (eds) *Systems Biology Application in Synthetic Biology*." Springer India, Online ISBN 978-81-322-2809-7, January 2016. DOI: https://doi.org/10.1007/978-81-322-2809-7_4.

Prepared manuscript:

Lipi Das, Vedang Murthy, and Ashok K. Varma. "Quantitative serum proteomics reveals the predictive and prognostic potential of clusterin and gelsolin in head and neck squamous cell carcinoma treated with radiotherapy."

Preprint DOI <https://doi.org/10.21203/rs.3.rs-827705/v1>.



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EDUCATION

Examination passed	Institute / University	Year of passing	Result	Subjects
Ph. D. Life Sciences	Tata Memorial Centre, Homi Bhabha National Institute; Kharghar, Navi Mumbai.	May 2022	Graduated	Cancer Biology, Proteomics
Master of Science, Biotechnology	Department of Biotechnology; Savitribai Phule Pune University; Pune.	July 2015	GPA: 4.97/6 (8.28/10) Percentage: 82.8%	Biotechnology
Bachelor of Science, Biotechnology	V. G. Vaze College of Arts, Science & Commerce; University of Mumbai; Mulund East, Mumbai.	June 2013	68.0% (Aggregate)	Biotechnology (6 units)
HSC Board Examination (Science) (Grade 12)	Smt. Sushiladevi Deshmukh Vidyalaya; Maharashtra State Board of Higher Secondary Education; Airoli, Navi Mumbai.	June 2010	88.8% (Aggregate)	English, Physics, Chemistry, Mathematics, Biology, Information Technology
Grade 10 Final Examination	National Experimental High School; Hsinchu City, Taiwan	June 2008	94.0% (Aggregate)	English, Physics, Chemistry, Mathematics, AP Biology, American History, Chinese

ACADEMIC HONORS

- Qualified in the CSIR-UGC NET (Life Sciences) in **December 2014 UGC JRF; All India Rank: 49.**
- Qualified in the CSIR-UGC NET (Life Sciences) in **June 2014 UGC LS; All India Rank 40.**
- Qualified in the GATE Biotechnology in 2015 with **All India Rank: 657.**
- Qualified in the JNU Combined Entrance Examination in Biotechnology (CEEB) 2013. **Merit Rank: GEN-62** (Selected for admission in the Department of Biotechnology, Savitribai Phule Pune University).
- Qualified in the IIT JAM Examination 2013 with **All India Rank: 89.**
- Qualified in the U. S. A. **AP Biology Examination in 2008.** Score: 5/5.
- Qualified in the **SAT Examination in 2008.** Score: 1990/2400.
- Received the **Model Student Award 2008** from NEHS, Taiwan in Grade 10.

TRAINING/ INTERNSHIP

- Worked as a summer student trainee at IISER Pune, from May 2014 to July 2014, with Dr. Girish Ratnaparkhi, Division of Biological Sciences.

Project title: **Overexpression of polyubiquitin and identification of polyubiquitin interacting proteins.**

- Attended students' workshop in NIUS 2011 at the HBSCE, Mumbai as a First Year B. Sc. student.




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KEY SKILLS

- Teaching experience (more than 6 years) of Mumbai University M. Sc. Biotechnology students.
- Experimental and practical oriented teaching approach, which helps students understand how science works in the laboratory.
- Experimental planning and development, manuscript writing, presentation of work and ideas, troubleshooting.
- Extensively used mass spectrometry for qualitative and quantitative experiments (ESI-TripleTOF).
- Designing and implementing targeted mass spectrometry assays.
- Expertise in protein modelling, visualization, and molecular docking software.
- Versed in molecular biology techniques such as DNA/RNA/plasmid isolation, cloning, restriction digestion, agarose gel electrophoresis, SDS-PAGE, Western blotting, PCR, affinity chromatography etc.
- Fully conversant about protein purification, crystallization, and X-ray diffraction methods.

PARTICIPATION IN SYMPOSIA/CONFERENCES

1. Poster presentation on "Differential expression analysis of protein biomarkers in head and neck squamous cell carcinoma" at the **International Conference on Proteomics for Cell Biology and Molecular Medicine** held from 12th to 14th December, 2018, at NCCS, Pune.
2. Oral presentation titled "Differential expression analysis of proteomics biomarkers in head and neck squamous cell carcinoma" at the **15th National Research Scholar's Meeting (NRSM)** held on 05th and 06th December, 2019, at ACTREC, Navi Mumbai.
3. Poster Presentation on "Proteomics based approach to evaluate the differential expression of a set of protein biomarkers in head and neck squamous cell carcinoma treated with radiotherapy" at the **International Conference and Expo on Proteomics, Genomics and Molecular Medicine** held on 09th and 10th March, 2020, at Zurich, Switzerland.
4. Oral presentation on "Quantitative mass spectrometric approach to identify potential biomarkers in head and neck squamous cell carcinoma treated with radiotherapy" at the virtual **OMICS 2021 International Conference by the Proteomics Society of India (PSI)** held from 21st to 23rd October, 2021.



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DEPARTMENT OF BIOTECHNOLOGY

Inaugural Session X ray Crystallography

Date : 28th July 2022, 11:00am to 1:00pm

Resource Person:

Dr. Lipi Das, Postdoctoral Research Associate, ACTREC, Navi Mumbai.

Contact:

Email: daslipi1292@gmail.com

Mobile: 9769561699

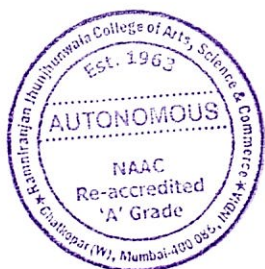
Students Benefited: MSc I

Number of students Benefited: 19

Number of Teachers Involved: 08 - Dr. Sucheta Golwalkar, Dr. Rachana Acharya, Dr. Tania Karipel, Ms. Saleha Khan, Ms. Smita Jadhav, Ms. Jasvinder Kaur, Ms. Naushabha Qureshi, Mr. Marc Martin

Report:

Dr. Lipi Das, Postdoctoral Research Associate -ACTREC, was invited to give MSc inaugural lecture on "X- ray Crystallography". Dr. Das explained the need to use X-ray in structural biology, crystallization methods and diffraction data analysis. The session was interactive with active student participation. The session ended with a vote of thanks to Dr. Lipi Das.




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PHOTOS OF THE SESSION ON X-RAY CRYSTALLOGRAPHY HELD ON 28TH JULY 2022



Dr. Lipi Das during her session with students of MSc Part I 2022-23 batch



Students during the Dr. Lipi Das's session



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List of students who attended the session on X-Ray Crystallography organized by the Biotechnology Department on 28th July 2022 for MSc Part I 2022-23 batch

Sr. No.	Roll Number	Name of the student
1	401	Urvi Upadhyay
2	403	Ritu Dalvi
3	404	Shravani Koyande
4	406	Moksha Dhoka
5	407	Amit Jaiswar
6	408	Mantasha Shaikh
7	409	Vaishnavi Gosavi
8	410	Poonam Yadav
9	411	Priya Verma
10	412	Niti Pandya
11	413	Kulsum Bano Shah
12	414	Vinayak Patil
13	415	Devita Yadav
14	416	Jyotiraditya Kamble
15	417	Pallavi Nadar
16	418	Sailee Yadav
17	419	Shivam Gupta
18	420	Annu Tiwari
19	421	Mihika Santosh




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CERTIFICATE


This is to certify that

RITU DALVI

has participated in the SESSION ON X RAY CRYSTALLOGRAPHY
held on 28th July 2022 by Department of Biotechnology.


Dr. Himanshu Dawda
Principal




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