



GOVERNMENT OF WEST BENGAL  
OFFICE OF THE PRINCIPAL  
*Maulana Azad College*



8, RAFI AHMED KIDWAI ROAD, KOLKATA 700013, INDIA  
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Website: <https://maulanaazadcollegekolkata.ac.in>

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**Report on the Career Counseling- Protocol for Paradigm shift from textbook  
to scientific research: A discussion**

**Counseling on future prospects for students of biological sciences organized by Dept. of Microbiology and IQAC, in collaboration with Microbiologists Society of India, West Bengal chapter**

**Objective:** Transitioning from a reliance on textbooks to engaging in scientific research represents a significant paradigm shift in education. It's a journey from passive consumption of information to active exploration and discovery. Educators, students, and policymakers need to grasp the limitations of traditional textbook-based learning. This fosters connections between undergraduates and the broader scientific community through partnerships, guest lectures, and field trips to research facilities and encourages students to present their research findings at conferences, science fairs, or community events to build confidence and communication skills.

Microbiologists Society of India is a non-profit registered national organization initiated for the spread of interest in microbiology and its growing importance in the global scenario in multiple facets of the human society. The primary objective of the event was to refresh the conception of students regarding research life and enlighten themselves while taking this huge leap from textbook knowledge to innovation and research philosophy.

**Speakers:**

**1. Dr. Prachetash Ghosh**

Postdoctoral Fellow

Dept. of Medical Biochemistry & Biophysics

Umea University, Umea, Sweden

**2. Dr. Sambit Roy**

Research Associate


Michigan State University, East Lansing, MI, USA

**Number of participants:** 91 students from different colleges across West Bengal.

**Date:** 21<sup>st</sup> September, 2021.

**Platform:** Zoom and You tube streaming

**Outcome:** The students were made aware about the mechanisms by which textbook knowledge can be applied in practical field, i.e. the textbook-research article interface was discussed in details. Also the various opportunities after graduation at different countries were discussed. Students interacted with the two esteemed speakers freely and gathered noteworthy insights which can pave their movement in future.

  
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Maulana Azad College  
Kolkata



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**MAULANA AZAD COLLEGE**  
8, Rafi Ahmed Kidwai Road, Kolkata- 700013.  
West Bengal, India

**INAUGURATION OF STUDENTS' UNIT, MICROBIOLOGIST SOCIETY OF INDIA**  
DEPARTMENT OF MICROBIOLOGY, MAULANA AZAD COLLEGE  
Event organized in collaboration with Microbiologist Society of India and IQAC, Maulana Azad College  
**A DBT Star College Programme**  
**Sept 12, 2021; 19:30 IST**

**Inauguration by:**  
**Dr. Arvind M. Deshmukh**  
Chief Guest  
President, Microbiologists Society India

**Distinguished Guest:**  
**Dr. Swapna Mukherjee**  
State President, MSI  
Head, Department of Microbiology,  
Dinabandhu Andrews College, Kolkata

**Chief Patron:**  
**Principal**  
Maulana Azad College

**“Protocol for Paradigm shift from textbook to scientific research: A discussion”**

**Prachetash Ghosh, Ph.D.**  
Postdoctoral Fellow  
Dept. of Medical Biochemistry & Biophysics  
Umea University, Umea, Sweden

**Sambit Roy, Ph.D.**  
Research Associate  
Michigan State University, East Lansing,  
MI, USA

[Register here](#)

**Convenor**  
**Prof. Subir C. Dasgupta**  
Co-ordinator, IQAC

Recording: Webinar\_12\_09\_2021.mp4

**Is it better to read textbooks or research papers?**

Differences between textbook and research paper?

**Research papers:**

- Primary source of information
- Specific
- Experimental part
- Updated

**Problem of only research paper consulting:**

- Difficult to get overview of the field
- Needs to read a lot of research papers

**Textbooks:**

- Secondary source of information
- Better for the basics and more comprehensive

**Problem of only textbook reading:**

- Difference universities with different syllabi
- India
- Not updated always
- Difficult to gain knowledge on how the information was generated (experimental part is missing mostly)

Recording: Webinar\_12\_09\_2021.mp4

General ideas about PhDs:

Topics	USA	EUROPE	
Choice of supervisor	Can not choose before application	Can choose before application	Can choose before application
Duration	Mostly 5-6 years	Mostly 4 years	Mostly 4 years
Classes	Required	Not required	Required
Work-life balance	Mediocre	Relaxed	High
Publications	More	Less	More
Thesis	Moderate significance	Highest significance	Mostly sig
Opportunities in academia	Mostly need US PhD degree	EU PhD degree not needed	Very difficult language problem
English test	Mandatory	Not required	Not required

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**Maulana Azad College**  
8, Rafi Ahmed Kidwai Rd, Kolkata-700013  
West Bengal  
(NAAC accredited 'A' grade and DBT Star Status College)  
**Certificate of Participation**

This is to certify that, \_\_\_\_\_ of

\_\_\_\_\_ has actively participated in the webinar "**Protocol for Paradigm shift from textbook to Scientific Research: A Discussion**" on the occasion of Inauguration of Students' Unit, MSI in Maulana Azad College, organized by Department of Microbiology & IQAC, Maulana Azad College in collaboration with Microbiologists Society, India held on the **12<sup>th</sup> September, 2021.**

Dr. Subhasis Dutta  
Principal  
Maulana Azad College

Prof. Arvind Deshmukh,  
President, MSI

Dr. Samudra P. Banik  
Head, Dept. of  
Microbiology  
Maulana Azad College

Prof. Subir C. Dasgupta  
Co-ordinator, IQAC and  
DBT STAR COLLEGE Scheme  
Maulana Azad College


Principal  
Maulana Azad College  
Kolkata



List of Participants:

Timestamp	Email Address	Score	Name (as will appear on t	Affiliation (Name of Institi	Address of the Institution	Your overall impression	Was the session commen	Your opinion about the de	What other issues/discus	Please give your suggestions/ideas regarding events which can be organized in future under the MSI, Students' Unit banner to directly benefit the students?
9/13/2021 5:54:59	ekmac2017@gmail.com		Ehtesham Khan	MAULANA AZAD COLLE	Kolkata	5 Strongly agree	Adequate	No	Yes	
9/13/2021 8:48:18	natyoursnavana.info@gmail.com		Soumava Maity	Panskura Banamali colleg	Panskura, West Bengal	5 Strongly agree	Adequate	It was a very session. I lo	Next time I want a session about microbiology and biotechnology curriculum. It will help us a lot.	
9/13/2021 9:28:20	svyambrita Mandal@gmail.com		Swyambrita Mandal	Panskura Banamali colleg	Midnapore, West Bengal	4 Agree	Adequate	No	More of such research related topics must be brought up	
9/13/2021 10:25:48	sharfarin1999@gmail.com		SHAINA PARVEEN	MAULANA AZAD COLLE	Kolkata	4 Agree	Adequate	It was satisfactory	More webinar should be organized	
9/13/2021 12:14:35	fundusampri2001@gmail.com		Sampri Kundu	Maulana Azad College	Kolkata, West Bengal	5 Strongly agree	Adequate	-	-	
9/13/2021 14:13:36	biprodeep001@gmail.com		BIPRODEEP MONDAL	Panskura Banamali Cole	Panskura, West Bengal	5 Strongly agree	Adequate	It was a very good and int I found many facts about The teachers are very co But the session should in	Next time if you organize a session about how to enhance laboratory skills during BSc and MSc and how to take preparation in Gate, NET, JAM and others entrance examination in oth	
9/13/2021 16:40:03	faizparvez594@gmail.com		Mr. Faiza Parvez	Maulana Azad College	Kolkata	5 Strongly agree	Adequate	N/A	Yes	
9/13/2021 17:46:14	hananilife19@gmail.com		Ms. Shabnam Khan	Bangabasi Manning Colle	Kolkata, west Bengal	3 Neutral	Adequate	Evaluation of the theme	Try to contribute more information.	
9/13/2021 21:50:06	ak3366223@gmail.com		Babar Khan	Maulana Azad College	Kolkata	4 Agree	Adequate	Evaluation of topic	Try to contribute more information regarding this topic	
9/18/2021 21:43:35	vysh1085@gmail.com		Avishhek Ghosh	Maulana Azad College	Kolkata	5 Strongly agree	Adequate	No such	Nothing	

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