

Annual Report: 2022-23

Departmental Activities:

1. Seminar: "Thinking skills of 21st Century" by Ms. Meenu Bhargava, Trainer & Counselling Psychologist, NCERT Certified (25th November 2022). Convenor: Prof. A. Archana; Co-convenor: Dr. Anjana Kapoor.



The Department of Microbiology has organized an expert talk on “Career Opportunities for Microbiologists” by Prof. Arvind M. Deshmukh (President, Microbiologists Society, India -MBSI) on 19th April, 2023 at 11 am in the Seminar room of Swami Shraddhanand College, University of Delhi.

The poster is for an event organized by the Department of Microbiology at Swami Shraddhanand College, University of Delhi. It features logos for the college, G20 India 2023, and the college's 100th anniversary (1922-2022). The event is an expert talk on "Career Opportunities for Microbiologists" by Prof. Arvind M. Deshmukh, President of the Microbiologists Society, India (MBSI). The talk is scheduled for 11 AM on 19.04.2023 at the Seminar Hall (Room no-118), New Building, SSNC. Prof. Parveen Garg, Principal of the college, is the patron. The event is convened by Prof. A. Archana, Vice President of MBSI, with Dr. Nitin Chauhan as co-convenor. Coordinators are Dr. Lakshna Mahajan and Dr. Sweta Yadav.



3. Department of Microbiology, Swami Shraddhanand College (SSNC), University of Delhi in association with Indian Immunology Society (IIS) celebrated “International Immunology Day” by organizing Two Day activities, i.e. a symposium and an outreach activity on 25th and 26th April 2023, respectively. The program was sponsored by providing a grant of Rs. 10,000/- and was also financially supported by Principal, SSNC. The following members was involved in organizing the event:

1. **Prof. A. Archana- TIC and Convenor**
2. **Dr. Lakshna Mahajan- Grant Recipient, Convenor**
3. **Dr. Sweta Yadav- Co-convenor**
4. **Dr. Nitin Chauhan- Member of Organizing Committee**
5. **Dr. Sakshi Talwar- Member of Organizing Committee**
6. **Dr. Bhupender Kumar- Member of Organizing Committee**
7. **Dr. Sanjay Kumar Gupta- Member of Organizing Committee**
8. **Dr. Neetu Sharma (Dept. of EVS, SSNC)- Member of Organizing Committee (Outreach Activity).**

On the first day, i.e. 25th April 2023:

- a) An expert talk on “Evolution of antibody responses in HIV-1 infected individuals” was delivered by Chief Guest and speaker of event **Prof. Kalpana Luthra**, Professor in Department of Biochemistry, All India Institute of Medical Sciences, New Delhi. The talk was attended by faculties and more than 65 students. The program was also relayed on Google Meet as instructed by IIS.
- b) Inter-college poster competition was held in which 15 teams from different colleges of University of Delhi, registered for the event. The hand-made posters were presented by team of 2 students each, on the theme “Immunology in Public Health”. The judges for the event were **Dr. Rajni Arora and Dr. Tanushree Saxena** of Department of Zoology, SSNC. The cash prizes of Rs. 1100/- and Rs. 500/- were awarded to the winner and runner-up team, respectively along with certificates. The details of the winners are attached along.
- c) Inter-college quiz competition was also held in which 14 teams (each team with 2 members) from different colleges of University of Delhi, registered for the event. The quiz was conducted on the theme, “Defense Mechanisms of the Immune System and its dysfunctions”. **Prof. A. Archana** meticulously handled the whole event as Quiz Master, **Dr. Sakshi Talwar and Dr. Nitin Chauhan** were the score-keeper of the event. **Dr. Bhupender Kumar** was the time keeper for the event. It was a great event and was a learning experience for the students. The cash prizes of Rs. 1100/- and Rs. 500/- were awarded to the winner and runner-up team, respectively along with certificates.



Swami Shraddhanand College

University of Delhi

Department of Microbiology

in association with

Indian Immunology Society

celebrates

International Day of Immunology

and invites you to attend an expert talk on

Evolution of antibody responses in
HIV-1 infected individuals



Speaker & Chief Guest

Prof. Kalpana Luthra

Department of Biochemistry
All India Institute of Medical
Sciences, New Delhi

Prof. A. Archana
Convenor & TIC

Venue: Seminar Hall,
New Building, SSNC

Date: 25.04.2023

Time: 9:30 a.m.

Hybrid Mode



<https://meet.google.com/ggp-cgrh-zwp>

Dr. Lakshna Mahajan
Convenor



Patron & Principal

Prof. Parveen Garg

Dr. Sweta Yadav
Co-convenor

Organizing Committee Members:

Dr. Nitin Chauhan

Dr. Sanjay Kumar Gupta

Dr. Sakshi Talwar

Dr. Bhupender Kumar

Poster and Quiz Competition at Swami Shraddhanand College (25th April 2023)

Department of Microbiology, Swami Shraddhanand College, University of Delhi

Venue: Room No.117,
New Building, SSNC
Date: 25.04.2023
Time: 12:00 p.m.

in association with
Indian Immunology Society
celebrates

International Day of Immunology

**INVITES STUDENTS FOR
EXCITING COMPETITIONS**

CASH PRIZES FOR TEAMS
1st Cash Prize: Rs. 1100/-
2nd Cash Prize: Rs. 500/-

POSTER PRESENTATION

Theme
Immunology in Public Health

- The competition is for current Science undergraduate students.
- Participation in the team of two is compulsory.
- Poster size should be A3.
- Poster should be handmade.
- Poster presentation time will be 3 minutes.
- Any sort of plagiarism will lead to disqualification.

**CERTIFICATES SHALL BE
PROVIDED TO
ALL PARTICIPANTS**

QUIZ COMPETITION

Theme
**Defenses Mechanisms of Immune
System and its dysfunction**

- The competition is for current Science undergraduate students.
- Participation in the team of two is compulsory.
- Three Rounds of quiz shall be held:
Round 1: General Round
(4 questions, 15 seconds per ques).
Round 2: Rapid Fire Round (10 ques).
Round 3: Buzzer Round (10 ques).

Link for Registration:

<https://forms.gle/tSuR7sMFiQVExy7HA>



SCAN ME

Link for Registration:

<https://forms.gle/xoCjsb9Hh9JG7CPj9>



SCAN ME

Student Coordinators: Faizul (9864839317), Dharmendra (8448021812),
Rishita (7976106473), Patee (9084074062)

Organizing Committee Members:

Dr. Nitin Chauhan, Dr. Sakshi Talwar,
Dr. Sanjay K. Gupta, Dr. Bhupender Kumar


Prof. A. Archana
Dr. Lakshna Mahajan
Dr. Sweta Yadav

Convenor & TIC
Convenor
Co-convenor

d)

e) Poster and Quiz Competition Certificates Winners at Swami Shraddhanand College (25th April 2023)

Ph. : 27202278
27206722



DEPARTMENT OF MICRO BIOLOGY
Swami Shraddhanand College
(UNIVERSITY OF DELHI)
ALIPUR, DELHI - 110036

Date: 25.4.23
Dated.....

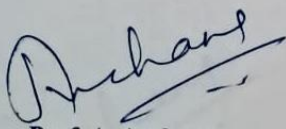
Ref. No.....

To whomsoever it may concern

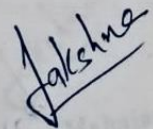
This is to mention that one day symposium was held to celebrate "International Immunology Day - 2023" in the Department of Microbiology, Swami Shraddhanand College, University of Delhi in collaboration with Indian Immunology Society on 25th April, 2023. During the first day of event, intercollege poster and quiz competitions were organized and name of the winners are given below:

Poster Competition	Position	Name	College	Amount
	I	Shubham	SSNC	1100/-
		Gunjan		
	II	Udita Mukherjee	SSNC	500/-
		Vidhi Sachdeva		
Quiz Competition	I	Meel-Makwana	RLAC	1100/-
		Menal Jain		
	II	Udita Mukherjee	SSNC	500/-
		Deepanshi Dagar		


- SSNC: Swami Shraddhanand College, University of Delhi
- RLAC: Ram Lal Anand College, University of Delhi.



Prof. A. Archana
Convenor & TIC



Dr. Lakshna Mahajan
Convenor



Dr. Sweta Yadav
Co-Convenor

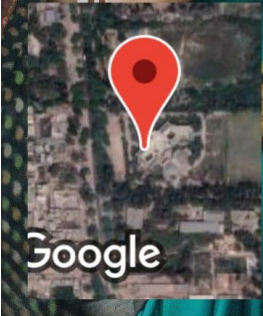
f) Symposium Pictures



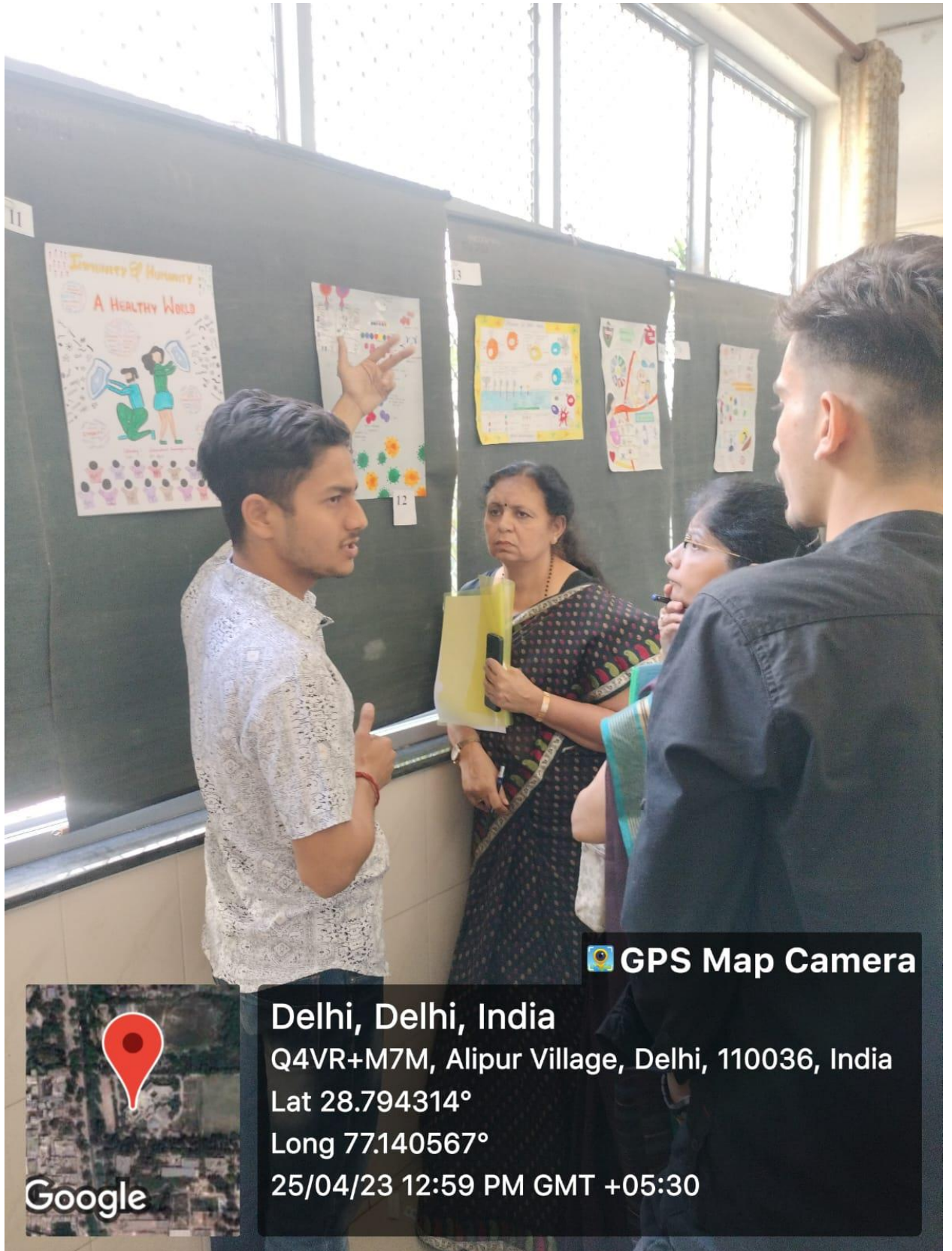
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Long 77.140564°
25/04/23 09:49 AM GMT +05:30



Delhi, Delhi, India
Q4VR+M7M, Alipur Village, Delhi, 110036, India
Lat 28.794362°
Long 77.140576°
25/04/23 10:03 AM GMT +05:30



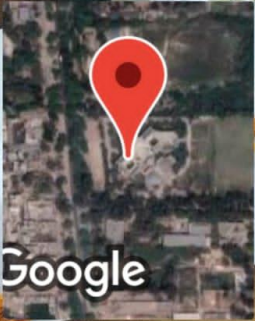
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25/04/23 02:56 PM GMT +05:30



g)



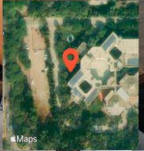
GPS Map Camera



Delhi, Delhi, India
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Lat 28.794344°
Long 77.140571°
25/04/23 10:00 AM GMT +05:30



GPS Map Camera



New Delhi, DL, India
Alipur, New Delhi, 110036, DL, India
Lat 28.794386, Long 77.140451
04/25/2023 01:09 PM GMT+05:30
Note : Captured by GPS Map Camera

h) On the second day, i.e. 26th April 2023:

An outreach activity was organized at **Government Boys Senior Secondary School, Bakhtawarpur, Delhi-36. School ID 1309266**, where more than 45 students of 10th class and 12th class attended the event. Two resource persons: **Prof. A. Archana**, Department of Microbiology, SSNC delivered an awareness lecture on “Basics of Human Immunity” and **Dr. Rajni Arora**, Department of Zoology, SSNC delivered the talk on “Blood Group (ABO And Rh) Determination And Its Compatibility: Know Your Blood And Remain Safe”. The aim of the program is to increase general awareness among students about the subject Immunology. The program shall be organized to bring up and make the importance of Immunology being understood among students/people that how the Immune System/study of the subject can bring substantial improvement in Public Health. The relevant colorful study material was provided to the students. The school faculty and students appreciated the program. The attendance was taken and feed back was provided by the participants. The program was also relayed on Google Meet as instructed by IIS.





Swami Shradhdhanand College
 University of Delhi
Department of Microbiology
 in association with
Indian Immunology Society
 celebrates
International Day of Immunology
 by organizing an Outreach Activity at
Government Boys Senior Secondary School,
Bakhtawarpur, Delhi



Resource Person
Prof. A. Archana
 Microbiology Department

Presenting
 "BASICS OF HUMAN IMMUNITY"
 Venue: Government Boys
 Senior Secondary School,
 Bakhtawarpur, Delhi
 Date: 26.04.2023
 Time: 10:00 a.m.



Resource Person
Dr. Rajni Arora
 Zoology Department

Presenting
 BLOOD GROUP (ABO AND RH)
 DETERMINATION AND ITS
 COMPATIBILITY



Patron & Principal, SSNC
Prof. Parveen Garg

Hybrid Mode



<https://meet.google.com/snn-ngys-gou>

Prof. A. Archana
Convenor & TIC

Dr. Lakshna Mahajan
Convenor

Dr. Sweta Yadav
Co-convenor

Organizing Committee Members, SSNC:

Dr. Neetu Sharma Dr. Nitin Chauhan Dr. Sakshi Talwar
 Dr. Sanjay Kumar Gupta Dr. Bhupender Kumar



i)



Faculty Achievements:

Dr. Anjana Kapoor:

- Member in NEP Syllabus Revision: An active member in the revision of Microbiology syllabus under NEP: UGCF 2022, wherein she revised four separate papers, Agricultural Microbiology (Discipline Specific Elective), Environmental Microbiology (Core), Microbial Quality Control in Food and Pharmaceutical Industries (Discipline Specific Elective), and Fundamentals of Agricultural Microbiology (Generic Elective).

Prof. A. Archana

- A nation-wide Microbiology Calendar competition was co-organised by her via MBSI, and the winning entry was printed and distributed to various colleges and institutions throughout India by the same.
- Member in NEP UGCF 2022 syllabus revision: wherein she revised/structured afresh eight separate papers as a member of the revision committee of papers viz., Introduction to Microbial World, Principles of Immunology I, Principles of Immunology II, Principles of Recombinant DNA Technology (Discipline-Specific Core Courses), Biotechniques and Instrumentation (Discipline Specific Elective Course), Introduction and Scope of Microbiology, Immunology & Medical Microbiology, Microbes in Environmental Management (Generic Electives Courses).
- Dr. A. Archana was promoted to professor in July 2022.
- Prof. A. Archana who was appointed as an Executive Member of Microbiologists Society India (MBSI) for this academic session in July 2022, was recently selected as the National Vice-President of the same society in March 2023.

- Mentored students at the national level through MBSI society platform. She has mentored as well as judged many events organised by the National Students' unit.
- Outreached to students and motivated them on Microbiology and Allied Subjects in the form of 200+ videos through her YouTube channel "Mentoring towards Sure Abundance". (Weblink: <https://www.youtube.com/@mentorshiptowardssureabund7226/featured>)

Dr. Lakshna Mahajan

- Tripathi A. H., Kumari A., Chand G., Kumar R., Durgapal A., **Mahajan L.**, Joshi P. and Upadhyay S.K. An overview of phytomedicinal, ethnobotanical applications and phytochemical constituents of four major Agave species. **Indian Journal of Natural Products and Resources**. 2023 Jun; 14(2), June 2023, pp. 148-161
- Member NEP Syllabus Revision:
Involved in Microbiology syllabus revision under NEP: UGCF 2022, wherein she revised three separate papers as a member of the revision committee revised four papers viz., Biochemistry (Discipline-Specific Core Courses), Microbial Physiology and Metabolism (Discipline-Specific Core Courses) and Microbial Quality Control in Food and Pharmaceutical Industries (Discipline Specific Elective).

Dr. Sweta Yadav

- Member NEP Syllabus Revision: Involved in microbiology syllabus revision under NEP: UGCF 2022, wherein she revised two separate papers as a member of the revision committee viz., Agricultural Microbiology (Discipline Specific Elective) and Fundamentals of Agricultural Microbiology (Generic Elective).

Dr. Nitin Chauhan

Research Articles (co-authored):

- "Removal Process of a Metal-Dye Mixture Using *Beauveria bassiana*. Water Conservation Science and Engineering" in Springer Nature.2022.Vol.7, pp. 1-9. Chapter (s) in a book.
- "Control of Foodborne Pathogens Using Nanotechnology" in Recent Advances in Food Biotechnology. Eds.Kumar, A., Patruni, K., Singh. 2022. Singapore: Springer Nature Singapore, pp. 465-481.
- Member NEP Syllabus Revision: Involved in Microbiology syllabus revision under NEP: UGCF 2022.