



Department of Microbiology Annual Report 2018-19

Departmental Activities:

- “Sookshma”, the Microbiology Society organized a One Day Symposium on "Intellectual Property Rights" with eminent speakers Ms. Pooja Kumar, Founder and Director of Innove Intellects and Ms. Ruchita Singh, a registered patent agent, on 11th October, 2018. The event was convened by Dr. A. Archana. Dr. Parvinder Kaur, Dr. Lakshna Mahajan and Dr. Sweta Yadav were teacher coordinators. Competitions on Poster Making and Crossword puzzle were organized and the certificates and prizes were distributed to the students of various departments of the college.



- Dr. A. Archana and Dr. Lakshna Mahajan, along with some motivated students of 3rd year attended an inspiring talk by Nobel Laureate Prof. Myles Axton, Chief Editor of Nature Genetics, Nature Publishing Group, on “Publishing research to make sure society gains ”, held at International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, organized in collaboration with MedgenomeSciGenom Research Foundation and ICGEB held on 29th September 2018.
- Dr. A. Archana and Dr. Lakshna Mahajan attended "6th World Congress on Nanomedical Sciences, ISNSCON-2018, and *Chemistry Biology Interface Synergistic in New Frontiers (CBISNF-2019)*" held at Vigyan Bhawan during 7-9th January 2019, organized by University of Delhi and Jamia Hamdard University. Our students of 2nd and 3rd year also participated in the event with a great zeal. This also included participation in ICMR Sponsored Workshop on 'Nanomedical Sciences and its impact on Healthcare: Challenges, Opportunities and Future Directions' on 7th January 2019.
- Sookshma, the Microbiology Society organized a talk on "*Heart Attack- How, Why, When, To whom and What can prevent it?*" by an eminent and Senior Consultant, Dr. Sunil Modi, MD, DM, Indraprastha Apollo Hospital, New Delhi, on 7th February 2019. It was convened by Dr. A. Archana and co-convened by Dr. Anjana Kapoor. Dr. Parvinder Kaur, Dr. Lakshna Mahajan and Dr. Sweta Yadav were teacher coordinators.

	Swami Shraddhanand College University of Delhi	
Date: 07/02/2019		Time: 10:30 am
Department of Microbiology		
“SOOKSHMA”		
<i>is organizing a talk</i>		
On		
Heart Attack- How, Why, When, To Whom and What can prevent it?		
By		
Dr. Sunil Modi, MD, DM		
Senior Consultant- Interventional Cardiology Indraprastha Apollo Hospital, New Delhi		
Convener Dr. A. Archana		Principal Dr. P.V. Khatri



- A lecture on "Thalassemia: An insight " by Dr. Shaan Khetrpal, Hamdard Institute of Medical Sciences (HIMSR) was organised on 21st February 2019. It was convened by Dr. A. Archana and co-convened by Dr. Anjana Kapoor. Dr. Parvinder Kaur, Dr. Lakshna Mahajan and Dr. Sweta Yadav were teacher coordinators.



Swami Shraddhanand College
University of Delhi



Date: 21/02/2019

Time: 10:30 am

Department of Microbiology

“SOOKHSHMA”

is organizing a talk

On

Thalassemia: An insight

By

Dr. Shaan Khetrapal

Assistant Professor Pathology

Hamdard Institute of Medical Sciences and Research, New Delhi

Venue: Room No. 118, New Building

Convener

Dr. A. Archana

Principal

Dr. P.V. Khatri



- The Microbiology Society, Sookshma, also organized an Industry-Academia Interaction titled ""Bridging the Gap" with MagGenome Technologies Pvt. Ltd. On 22nd-23rd February 2019. MagGenome Technologies, headquartered in Cochin India, began operations in 2014. It was incubated in SciGenom Labs for a period of one year and is now a registered independent company from 2015. As a startup MagGenome is primarily focused on the development of magnetic nanoparticles-based products. This interaction included:
 - Hands-on training on "Biological applications of Nanoparticles: Isolation of DNA using Nanoparticles" for 2nd and 3rd year students of Microbiology, so as to acquaint them with the newly growing technologies.
 - And an extraordinary lecture on "*Biotech Industry Startup: Entrepreneurship prospects in India*", delivered by Dr. C. N. Ramchand, Chief Executive Officer, MagGenome Technologies Pvt. Ltd; CEO, Saksin Lifesciences Pvt Ltd.

The event was convened by Dr. A. Archana. Dr. Parvinder Kaur, Dr. Lakshna Mahajan and Dr. Sweta Yadav were teacher coordinators.



Swami Shraddhanand College
University of Delhi

Date: 22nd -23rd Feb. 2019 **Time: 10:00 am**

Department of Microbiology
"SOOKSHMA"

is organizing a two days workshop
On

Industry-Academia Interaction- "Bridging the Gap"

in association with
MagGenome Technologies Pvt. Ltd.
Venue: Room No. 118, New Building

Convener
Dr. A. Archana **Principal**
Dr. P.V. Khatri



Academic Achievement of Faculty Members

Dr. S. K. SRIVASTAVA

- Became Life Member of the Indian Immunology Society in 2018(LL/IIS/735/09/18).
- Successfully completed training in the International Workshop on Viruses and RNA held at the International Centre for Genetic Engineering and Biotechnology New Delhi in October.
- Attended the 14th Indo-Australian Biotechnology Conference with the theme on Emerging Modalities to Improve Cancer Outcomes held at the TATA Memorial Centre - Advanced Centre for Treatment, Research and Education in Cancer, Navi Mumbai 22-23 Oct 2018.
- Attended IMMUNOCON 2018, an International Meeting on Immunotherapy & Advances in Immunology at the Translational Health Science and Technology Institute from Nov 1-3 2018.
- Delivered an invited talk entitled "Application of Viral Nano Particles: Vaccination Immunotherapy and Cancer treatment " in the 6th World Congress on Nano Medical Sciences held at Vigyan Bhawan, New Delhi 7-Jan-2019.
- Participated in an International Workshop on Cancer Immunotherapy from Lab to Clinic organized by the Delhi Tumor Board held at Pride Plaza, Aerocity, New Delhi Jan 12, 2019.
- Attended an International Symposium on Evolving Land Scape of Biomedical Research in India at AIIMS, New Delhi Jan 19, 2019.
- Attended an International Symposium on Advances in Immunomics and Immune Oncology, held at the India Habitat Centre New Delhi, Jan 30, 2019.
- Participated as a Faculty (Resource Person) in RGCON 2019- Thoracic Oncology- Translating Research into Practice organized by Rajiv Gandhi Cancer Institute and Research Centre Feb 9-10, 2019.

Dr. A. ARCHANA

Reviews

- Safikur Rahman, **Archana Ayyagari**, Arif Tasleem Jan, Durgashree Dutta, Rinki Minakshi (2019). "Molecular insight into the relationship between autoimmune thyroid diseases and breast cancer". *Frontiers in Immunology*.10:344 (Impact factor 6.43). doi: 10.3389/fimmu.2019.00344
- Rinki Minakshi, Safikur Rahman, Arif Tasleem Jan, **Ayyagari Archana**, and Jihoe Kim (2018). Implications of Ageing and Endoplasmic Reticulum Unfolded Protein Response (UPR) in the Molecular Modality of Breast Cancer. *Nature Experimental & Molecular Medicine*. EMM2017173RR. doi: 10.1038/emm.2017.215 (Impact Factor 8.718)
- Safikur Rahman, **Archana Ayyagari**, Mudseer Azam & Rinki Minakshi (2018). "Role of osmolytes and their transporter systems in pathogen survival and pathogenicity". *Current Drug Metabolism*.19(12):992-1001. BSP-CDM-2017-HT8-40 (Impact factor 3.731).

Dr. LAKSHNA MAHAJAN

- **Editorial:** Mahajan, L., Saxena, S., Sarma, P. U. Phosphorus Compounds: Their Discover) in Biological World. Indian J Clin Biochem. 2018. 33(3):243-245. [ISSN: 0970-1915].
- Presented an invited lecture on "Gutmicrobiota and human health" in a series of "Seminar on Top trends in Science, Technology and Business" held on 22nd Dec 2018 organized by Saskin Lifesciences Pvt. Ltd., Chennai.
- Taught a short intensive course titled ""Microbial Quality Control in Pharmaceutical Industries " at R. K. Electro Biotechnologies Research Centre, Perungudi, Chennai from December 20-21, 2018, organized by SciGenom Research Foundation (SGRF) under Biotechnology & Bio Pharma Skill Enhancement Program (B2SEP).
- Member of Editorial Board as Review Editor in Molecular Innate Immunity, part of he journal(s) Frontiers in Immunology (Journal Impact Factor 6. 429, 5th most cited Immunology journal in the world).