

DR. SHASHI CHAWLA

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PROFILE

Professor of Microbiology, 28+ years of job experience in teaching and research. Mentored minor research projects for UG students. Authored/ Edited e-chapters as well as e-books. Presented several research papers in national and international conferences. Also published research articles and chapters in peer-reviewed journals & books, respectively.

EDUCATION

Degree	University	Year of Passing	Division / Class/ Grade	Main Subjects
*Ph.D.	University of Delhi	1994	NA	Medical Microbiology
M.Sc.	-do-	1987	I (72.4%)	Microbiology
B.Sc.	-do-	1985	I (68.1%)	Zoology, Botany, Chemistry

*Title of the thesis: Studies on the allergen-specific immune response in Type-I hypersensitivity of respiratory system including observations on the etiologic role of *influenza* virus.

AREAS OF INTEREST

Allergy, Immunology and Virology

ADVANCED TRAINING COURSES ATTENDED: ANNEXURE-I

Details of Advanced training courses done by me like workshops, seminars, orientation and refresher courses, FDPs etc. are given in Annexure-I.

AWARDS AND HONOURS

- ✓ Recipient of award for securing maximum aggregate marks in B.Sc. course (1985).
- ✓ Recipient of Gold Medal for standing First in M.Sc. (Microbiology) course of University of Delhi (1987).
- ✓ Recipient of Appreciation Letter from Bhartiya Sathi Sangathan for standing First in M.Sc. (Microbiology) examination of University of Delhi (1987).

PROFESSIONAL JOURNEY

- March, 2021- Till date
Professor, Department of Microbiology
Gargi College, University of Delhi, Delhi, India
Taught Microbiology courses like Immunology, Microbial Physiology, Instrumentation & Biotechniques, Microbial Genetics and Genomics, Medical Microbiology, Biosafety and IPR etc to undergraduate students. Working with Placement cell. Organized webinars, seminars, workshops, conferences etc. Also participated in examination related work and administrative activities of University and College.
- July, 2008– March, 2021
Associate Professor, Department of Microbiology
Gargi College, University of Delhi, Delhi, India
Taught Microbiology courses like Immunology, Microbial Physiology, Instrumentation & Biotechniques, Microbial Genetics and Genomics, Medical Microbiology etc to undergraduate students and supervised minor research projects. Organized webinars, seminars, workshops, conferences etc. Also participated in examination related work and administrative activities of University and College.
- May, 2014– July, 2015
Fellow of Microbiology, Institute of Life Long Learning
University of Delhi, Delhi, India
Created e-content for microbiology courses.
- July, 2005–July, 2008
Reader, Department of Microbiology
Gargi College, University of Delhi, Delhi, India
Taught Microbiology courses at undergraduate level.
- July, 2000–July, 2005
Senior Lecturer of Microbiology
Gargi College, University of Delhi, Delhi, India
Taught undergraduate Microbiology courses.
- July, 1996– July, 2000
Lecturer, Department of Microbiology
Gargi College, University of Delhi, Delhi, India
Taught undergraduate Microbiology courses.
- November, 1993– March, 1993
Guest Lecturer, Department of Microbiology
Gargi College, University of Delhi, Delhi, India
Taught Medical Microbiology course to the undergraduate students.
- April, 1993– July, 1996
Antigen Chemist, Department of Respiratory Allergy & Applied Immunology, V. P. Chest Institute, University of Delhi, Delhi India
Carried out research in the field of Respiratory Allergy, Applied Immunology & Virology.

- ✓ Recipient of Junior Research Fellowship of Council of Scientific and Industrial Research, New Delhi (1987-89).
- ✓ Recipient of Senior Research Fellowship of Council of Scientific and Industrial Research, New Delhi (1989-93).
- ✓ Recipient of Gold Medal for Best Research Paper presented by a post-graduate student at 25th Annual Convention of Indian College of Allergy and Applied Immunology held at Delhi, India, December, 1991.
- ✓ Life Fellow, Indian College of Allergy and Applied Immunology (1991).
- ✓ Recipient of International Women Empowerment Award for contribution in nation building and personal development to be an inspiration by Nutrition and Natural Health Sciences Association, India (2021).
- ✓ Recipient of “Dr. APJ Abdul Kalam Inspiring Professor & Researcher Award 2022” for consistent superior performance in Microbiology on October 15th, 2022, the eve of International Teacher’s Day & Worlds Students’ Day 2022 by Center for Professional Advancement Continuous Education (CPACE), A unit of IMRF regd with Govt of India NITI Aayog, NGO Darpan, Vijayawada, Andhra Pradesh, India.

PROJECTS AND INTERNSHIP MENTORED

Projects

1. “Isolation of antifungal substance producing bacteria from soil” by Anupama Yadav and Srijani Basu, students of B.Sc.(H) Microbiology III yr. Shortlisted and Submitted for The Pathfinder Award, Gargi College, 2010.
2. “Isolation and Characterization of Polythene degrading bacteria” by Poshmaal Dhar and Shweta Chakraborty, students of B.Sc.(H) Microbiology III yr. Submitted under the Star College Scheme, Department of Biotechnology, Ministry of Science & Technology, Govt. Of India, 2011.
3. “Isolation and characterization of Bacteria Detergent laundry detergent” by Apoorva Mehta and Arunima Murgai, students of B.Sc.(H) Microbiology III yr. Submitted under the Star College Scheme, Department of Biotechnology, Ministry of Science & Technology, Govt. Of India, 2011.
4. “Isolation, Identification and characterization of a fungus growing inside a papaya fruit” by Naina Verma and Vaidehee, students of B.Sc.(H) Microbiology III yr. Submitted under the Star College Scheme, Department of Biotechnology, Ministry of Science & Technology, Govt. Of India, 2019.

POSITIONS OF RESPONSIBILITY

Administrative assignments undertaken at Gargi College

- TIC, Department of Microbiology: 24/01/01- 31/03/03;
1/04/2010- 31/03/12;
1/04/2019- 31/03/21
- Departmental coordinator, Star College Scheme: 2012-2019
- Deputy Superintendent, Annual & Suppl. Examination: 2002-2003
- Teacher Representative, Governing Body: 14/08/05-13/08/06
- OBC admissions for sciences: 2010-11
- Advisor, Student Council: 2013-14
- Teacher Advisor, G.E.R.M.S. (The Microbiology Society):
24/01/01- 31/03/03
1/04/2010- 31/03/12
1/04/2019- 31/03/21
- Member, Organizing Committee, Science Exhibition held at Gargi College: 2002 (27th & 28th Nov.)
- Co convenor, Path Finder award committee: 2010-2013
- Co convenor, Refreshment committee for Reverie and annual Day: 2011
- Member, library committee: 1996-98
- Member, Garden committee: 2005-2007
- Member, Building Maintenance Committee: 2007-2009
- Member, Enactus: 2019- Till date
- Co convener and Member, Placement cell: 2021 onwards
- Member, Covid Task Force: Jan, 2021 onwards
- Convener, Screening Committee for Promotions: 2022 on
- Founder member and Co convener, Ananda- The Wellbeing Centre, Gargi College: 2023- Till date
- Coordinator, Science Setu programme: 2023 onwards
- Nodal Officer, ICT Academy: 2023-24
- Nodal Officer, Udhmodya E-Cell, University of Delhi: 2023-24

Administrative assignments undertaken at Univ. of Delhi

- Member, Flying Squad, Univ. of Delhi, May & June, 2015.
- Member, Committee of Courses of Faculty of Applied Sciences, South Campus, Univ. of Delhi, March 2016- Till date.
- Member, Faculty of Interdisciplinary and Applied Sciences under Statute 9 (3) (v) & 9 (4) - Teachers category for 3 years from 30th March 2016-June, 2019.
- Member, Syllabus revision committees, 2004 (Annual), 2010 (Semester), 2013 (FYUP), 2014 (Erstwhile FYUP), 2019 (CBCS).

ACTIVITIES ORGANIZED

1. Organised India- UK Science Festival” at Gargi College. Included Lectures on “Social and Ethical Aspects of Research and Biotechnology” by Dr. Harry Griffin, Rosalin Institute, UK and Dr. Sui Mayers, Director, Gene Technology, UK [Jan 16, 2002].
2. Organised one day STG sponsored seminar on “Bioinformatics” at Gargi College [Sept 19, 2002].

Internship

“Methods in Microbiology, Immunology and Computational Biology” by Saloni, a student of B. Tech (Biotechnology) at Amity Institute of Biotechnology, Amity University, Noida, UP, 15th May to 30th June, 2018.

PROJECT GRANTED

Co-PI of an Interdisciplinary Project granted by National Academy of Sciences, India (NASI), Science Society Program by NASI Delhi Chapter (October, 2021- September, 2022)

It involves organizing various activities like expert talks, quizzes, workshops, celebrating important days, IPR talks etc. to create awareness in society.

PARTICIPATION IN SCIENTIFIC CONFERENCES, SYMPOSIA & SEMINARS: ANNEXURE-II

Mentioned in Annexure-II are international and national conferences, symposia and seminars where I have participated and/or presented /communicated research papers.

PUBLICATIONS: ANNEXURE-III

Publications include Research papers, abstracts of papers/posters presented/communicated in conferences, conference proceedings, chapters in books and manuals, articles in newspaper/supplement etc. Details are given in Annexure-III.

CONTRIBUTION TO E-CONTENT DEVELOPMENT

1. **Editor, e-book** titled “Introduction to Microbial World”, 2015. Available at vle.du.ac.in
2. **Editor, e-book** titled “Bacteriology”, 2015. Available at vle.du.ac.in
3. **Author, e-Chapter:**
Chawla S. Carbon and Nitrogen metabolism. *In: e-Book titled “Microbial Physiology and Biochemistry”, developed for NSDL (National Science Digital Library), an endeavor of NISCAIR (National Institute of Science Communication and Information Resources), 2008.*
4. Reviewed e-lesson titled “Uses of Transposons and Eukaryotic Viruses” for NME-ICT in Zoology under the MHRD project, 2015.
5. Reviewed e-lesson titled “Microbial Growth Kinetics” for NME-ICT in Zoology under the MHRD project, 2015.
6. Reviewed e-lesson titled “Eukaryotic Transposable Elements” for NME-ICT in Zoology under the MHRD project, 2015.

MEMBERSHIP OF SCIENTIFIC SOCIETIES

- ❖ Life Fellow, Indian College of Allergy and Applied Immunology
- ❖ Life Member, Indian Immunology Society
- ❖ Life Member, Association of Microbiologists of India
- ❖ Life Member, Microbiologists Society, India

3. Organized “Micromania 2010/11”, a festival of Department of Microbiology as Teacher convener, G.E. R. M. S., The Microbiology Society of Gargi College [Feb 1, 2011].
4. Organized industrial visit to Mohan Meakin for III yr. students of B.Sc. (Hons.) Microbiology and B.Sc. Life Sciences [March 7, 2011].
5. Organized first common Science Festival “Scintillations”, Gargi College, 2011-12, along with Botany Department [Jan 12 & 13, 2012].
6. Member, Organizing Committee for Scientific Session in a Multidisciplinary Conference on “Conflict to Convergence: Building Holistic Perspectives” by Gargi College [7th and 8th Nov., 2012].
7. Member, Workshop organized for training the laboratory staff of Gargi College under Star College Scheme [Aug 1 & 2, 2013].
8. Member, Organizing Committee of a Workshop on “Intellectual Property Right and Multimedia Enrichment of e-content” conducted at Institute of Life Long Learning, South Campus, Univ. of Delhi [Sept. 19 & 22, 2014].
9. Member, Organizing Committee, 2nd Task Force Meet under Star College Scheme of DBT, Gargi College [8th and 9th May, 2018].
10. Organized Institutional visit for students of Department of Microbiology to NIFTEM, Sonapat, Haryana [Jan 23, 2019].
11. Conducted a workshop on “Advanced Techniques in Immunology” for students of B.Sc. (Hons.) Microbiology III yr [22nd Feb., 2019].
12. Organized “Microcosm’19”, celebrating 30 years of Department of Microbiology as Teacher convener, G.E.R.M.S., The Microbiology Society of Gargi College [Oct 15, 2019].
13. Convener of a webinar on “Intellectual Property Rights-A Kaleidoscope of Opportunity” by Dr. Chitra Arvind, Partner at Lex IP Care, Gurgaon, Haryana [23 May, 2020].
14. Convened a webinar on “Fighting Pandemics with Artificial Intelligence” by Dr. Tavpritesh Sethi, Physician-Scientist, IIIT, Delhi [29 May, 2020].
15. Organized a webinar on “Bioinformatics to Systems Genomics” by Dr. Prashanth N. Suravajhala, Senior Scientist, Birla Institute of Scientific Research, Jaipur, Rajasthan [6 November, 2020].
16. Organized and convened a webinar on “Interesting Interface of Microbiology with Food Industry and Career Opportunities therein for a Microbiologist” by Dr. Ruchi Srivastava, Food Safety and Quality Professional [30 January, 2021].
17. Launched MASIF- Microbiology Alumni-Student Interaction Forum in 2019 and organized two microbiology alumni-student interactions [24th Oct., 2020 and 16th Jan., 2021].
18. Organized Enkindle, a 3-day International Colloquium on “Microbes, Environment and Science communication” [26th, 27th Feb., & 1st Mar., 2021].
19. Organized “Microcosm-2020-21”, a festival of Department of Microbiology as Teacher convener, G.E. R. M. S., The Microbiology Society of Gargi College [March 11, 2021].
20. Treasurer and Core Committee Member of the ICSSR Sponsored Two-Day International Multidimensional Conference on "Revisiting Wellbeing: Perspectives, Challenges, and the Road Ahead", under the aegis of DU Centenary Celebration, held on February 1-2, 2023.