



INSTITUTE OF HOME ECONOMICS
UNIVERSITY OF DELHI



Name	Prof. Archana Burman	Photograph
Designation	Professor	
E-mail	archana.burman@ihe.du.ac.in	

Educational Qualifications: MSc (Biochemistry), PhD (Biochemistry) from AIIMS, New Delhi

Teaching experience: 28 years

Subjects/Papers Taught: Biomolecules, Nutritional Biochemistry, Biochemical Techniques, Biochemical correlation of diseases, Non-infectious human diseases, Hormone Biochemistry, Membrane biochemistry, Advanced Nutritional Biochemistry and Instrumentation-I and II (MSc Food and Nutrition)

Research Interest/Specialization: Lipoproteins, Adipokines, Cancer biology

ORCID No.

0000-0002-8256-6344

Awards received

- Dedicated 25 years of service award by Institute of Home Economics, University of Delhi in 2024.
- Shastri Conference & Lecture Series Grant (SCLSG) from the Shastri Indo Canadian Institute
<https://www.shastriinstitute.org/sites/default/files/Awards-SCLSG-2022-23.pdf>.

Research Projects

Title	Funding agency/organization	Duration of Project
Evaluation of microbial flora of Indian fermented food for the development of novel probiotics having antioxidant properties	University of Delhi, Innovation project	1 year (2015-16)
Optimization and Characterization of Microbial dyes for Dyeing Different Textile Substrate	University of Delhi, Innovation project	1 year (2016-17)

Research papers since 2010

1. Vachher M, Kaur K, Marothia M, **Burman A**, Deepanjana, Bansal S (2025). Deciphering the role of dietary modifications and gut dysbiosis in Non-Alcoholic Fatty Liver Disease. 40, 200305 ISSN: 2666-1497 (IF:1.9).
2. Bansal S, **Burman A**, Sen A, Vachher M (2024). Decoding Glycobiomarkers in Non-Alcoholic Steatohepatitis (NASH) and related hepatocellular carcinoma (HCC). Current Proteomics. 21 (6) p. 606-625 ISSN: 1875-6247 (IF:0.4).
3. Bansal S*, Vachher M*, **Burman A**. (2023) Calreticulin: a quintessential multifaceted protein with therapeutic potential. Journal of Proteins and proteomics. DOI : 10.1007/s42485-023-00111-x
4. Kumar B, Bansal S, Kapila D, Thakur R, Bhati S, Grover N, Trilok-Kumar G, **Burman A**. (2023) Assessment of Type 2 Diabetes Risk in General Population using Bitter Taste Sensitivity Status to Phenylthiocarbamide - A Pilot Study. The Indian Journal of Nutrition and Dietetics. DOI:10.21048/IJND.2023.60.2.220863.
5. Bansal S, **Burman A**, Tripathi AK. (2023) Advanced glycation end products: Key mediator and therapeutic target of cardiovascular complications in diabetes. World Journal of Diabetes. Published online, ISSN 1948-9358 (online)
6. Vachher M*, Bansal S*, Kumar B, Yadav S, **Burman A**. (2022) Deciphering the role of aberrant DNA methylation in NAFLD and NASH. Heliyon 8 e11119. ISSN: 2405-8440 IF 3.77.
7. Vachher M, Bansal S, Kumar B, Yadav S, Arora T, Wali NM, **Burman A**. (2022) Contribution of organokines in the development of NAFLD/NASH associated hepatocellular carcinoma. *J Cell Biochem*. Jul 12. IF4.44
8. Vachher M, Yadav S, Rastogi A, Tihara S, Kumar B, Arora T, **Burman A**. (2022) Consumption of natural products and Ayurvedic decoctions “kadha” as immunity-boosting measures during the spread of COVID-19 in Delhi. *Journal of drug research in Ayurvedic sciences* 7: 192-9.
9. Vachher M, Sen A, **Burman A**, Nigam A. (2021) Bacterial enzymes as diagnostic tools for various human pathogens. *Journal of Scientific Research, BHU*. 65 (5), pages 105-115. ISSN: 0447-9483.
10. Vachher M,* Yadav, S,* Gopal P, Chopra S, Grover N, Vanshika, Sharma S, **Burman A**, Trilok-Kumar G. (2021) A Sustainable Option of Developing Kitchen Gardens Based on Air Pollution Tolerance Index (APTI) Method of Plants with Edible Leaves for Health and Well Being. *The Indian Journal of Nutrition and Dietetics*, 58, 54-67. ISSN: 2348-621X
11. Vachher M, Arora K, **Burman A**, Kumar B. (2020) NAMPT, GRN and SERPINE1 signature as predictor of disease progression and survival in gliomas. *Journal of Cellular Biochemistry*, 121(4) 3010-3023. ;ISSN 1097-4644 Online IF-4.44
12. Kumar B*, Bhat ZI*, Bansal S, Saini S, Naseem A, Wahabi K, **Burman A**, Trilok-Kumar G, Saluja SS, Rizvi MMA. (2017) Association of mitochondrial copy number variation and T16189C polymorphism with colorectal cancer in North Indian population. *Tumor Biology* 39 (11); ISSN: 1010-4283 (Print) IF-3.65
13. Pandey S, Gupta C, Aggarwal S, **Burman A**, Gupta R. (2016) *Aspergillus niger* as a novel source of textile dye. *Asian dyer*, 13, 58-64. ISSN: 0972-9488

Association with Professional Societies

1. Member of Association of Clinical Biochemists of India.
2. Member of Nutrition Foundation of India.

Any other

1. Invited Speaker and resource person in online National symposium on Pre-diabetes on 9th February 2024 jointly organised by IHE and Zirtiri Residential Science College, Aizawl, on the topic “Understanding Pre-diabetes”.

2. International conference on Liver diseases and Hepatology on November 15, 2022 on the topic “Risk profile of NAFLD: Prevention and amelioration through lifestyle changes”.
3. Invited Speaker in 13th International conference on Liver diseases and Hepatology on November 15, 2022 on the topic “Risk profile of NAFLD: Prevention and amelioration through lifestyle changes”.
4. Invited Speaker and Resource Person in “ Finalization Workshop on Life-Science Resources for teachers in higher Education” organised by National Resource centre for Education, National Institute of Educational Planning and administration (NIEPA) during January 16-17, 2020.
5. Resource person in a lecture series on “Understanding lifestyle disorders: A biochemical perspective” held at the Institute of Home Economics, University of Delhi, New Delhi, on Jan 12, 2020.
6. Resource person in the 4th two-day national technical workshop on “Introduction to Clinical Biochemistry” held at the Institute of Home Economics, University of Delhi, New Delhi on Jan 24-25, 2019.
7. Resource person in a two-day national workshop “Introduction to Clinical Biochemistry” held at the Department of Biochemistry, Institute of Home Economics, University of Delhi, New Delhi on Aug 27-28, 2018
8. Resource person in a two-day national workshop “Introduction to Clinical Biochemistry” held at the Department of Biochemistry, Institute of Home Economics, University of Delhi, New Delhi on Sept 12-13, 2017.
9. Resource person in a technical workshop “PCR & ELISA” held at the Department of Biochemistry, Institute of Home Economics, University of Delhi, New Delhi on April 7, 2017.
10. Speaker in a national workshop “Introduction to Clinical Biochemistry” held at the Department of Biochemistry, Institute of Home Economics, University of Delhi, New Delhi on Sept 1-2, 2016.

Workshops and lectures at IHE as Convenor/organizer/resource person

1. Convenor of online National Symposium on “Pre-diabetes” on 9th February, 2024.
2. Convenor of online talk on “The role of indigenous technologies in the fight against COVID-19 pandemic” on 11th March, 2024.
3. Convenor of faculty development program on “Research ethics and plagiarism” on 31 October 2022.
4. Convenor of hands on workshop on “Quantitative analysis of carbohydrates” for undergraduate students on 21 October 2022.
5. Convenor of seminar on “Career perspectives in bioinformatics” on 20 October 2022.
6. Convenor and resource person of National hands on workshop on “Qualitative analysis of carbohydrates” for undergraduate students on 8 September 2022.
7. Convenor of 5 Days Online National Hands-on Workshop on "MOODLE: An Online Learning Management System" from 01 to 05 July 2020.
8. Convenor of two days International webinar on “Bioinformatics (concepts and applications)” from 18 to 19 September 2020.
9. Convenor and speaker in outreach program on “Basic understanding of Biosciences” on January 20, 2021 for the students of class 11 and 12.
10. Convenor of National webinar on “Scientific manuscript writing” on 5th March 2021.
11. Convenor of National webinar on “Masters Abroad- Global Opportunities for Career Growth” on 5 April, 2020.
12. Convenor and Speaker in National Symposium on “Understanding lifestyle disorders: A biochemical perspective” on 12th February’ 2020.
13. Convenor and speaker of outreach programme for school students on “Unravelling the mystery of DNA” on 19th August 2019.
14. Convenor of Workshop on “PCR & ELISA”, 7th Feb 2019

15. Convenor of Workshop on “Introduction to Clinical Biochemistry”, 27 & 28th August 2018
16. Convenor of Symposium on “Replacing regulatory experiments on Animals” with PETA India, 26-27 October 2017.
17. Convenor of Workshop on “Introduction to Clinical Biochemistry” 12th & 13th September 2017
18. Convenor of Workshop on “PCR & ELISA”, 7th April 2017
19. Convenor of Workshop on “Introduction to Clinical Biochemistry”, 1st & 2nd September 2016
20. Convenor of Workshop on “Auto docking part II”, 29th February 2016
21. Organising committee of plenary lecture & workshop on “Auto docking”, 29th January 2016.