




**INSTITUTE OF HOME ECONOMICS**  
**UNIVERSITY OF DELHI**



Name	DR. NALINI MOZA WALI	
Designation	Assistant Professor	
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<b>Educational Qualifications:</b> <ul style="list-style-type: none"><li>➤ M. Sc. Biochemistry- University of Kashmir, Srinagar (J&amp;K)</li><li>➤ Ph.D. Biochemistry- National Institute of Immunology, New Delhi.</li></ul>		
<b>Teaching experience:</b> <p>17 years of teaching experience &amp; 6 years, 2 months research experience.</p>		
<b>Subjects/Papers Taught</b> <p>Immunology, Molecular Cell Biology, Genetics, Molecules of Life, Basics of Cell Biology, Biochemical Correlations of Human diseases, Proteins, Biochemical Applications in Forensic Science, Nutritional Biochemistry, Molecular Basis of Non-Infectious Diseases, Techniques in Biochemistry.</p>		
<b>Awards received</b> <p>1: Awarded senior research fellowship by CSIR (National level) -1992 2: Awarded IDRC fellowship – 1994, research work carried at University of Alberta, Edmonton, Canada. 3: Awarded Research Associateship – CSIR for 3 years 4: Awarded Research Associateship – ICMR for 3 years 5: Best oral presentation award in International Conferences: 1991</p>		
<b>Research Interest/Specialization</b> <p>To check immunomodulatory properties of crude as well as purified compounds extracted from Indian Medicinal Plants e.g. Withania somnifera, Azadirachta indica, Ocimum sanctum, Mangifera indica, Berberis aristata were tested for antibacterial and antileishmanial activity via immunomodulatory effects. Inducing inflammation in animal models and then screening plant derived products for anti-inflammatory properties as well as anticomplementary effects. To work with plant derived compounds for anti-tumor</p>		

activity via enhancing cell mediated immune response.

Interested in clinical biochemistry, Interested in doing Immunological techniques like Raising antibodies in animal models, Western Blotting, different types of ELISA, Handling of animal models– Mice, Rats, Hamsters, Rabbit, Guinea Pigs. Cell culture (spleen, macrophages, as well as cell lines) and to study cell cytotoxicity, Protein purification and analytical techniques.

ORCID No. 0000-0003-3190-0872

#### Research Projects

Title	Funding agency/organization	Duration of Project

#### Research papers

- 1) Anticomplementary activity of Leishmania donovani : A possible mechanism to evade complement mediated lysis. Medical Science Research (1991), Vol 19, 315-316. Aruna Kapil, Sunil Punjabi, **Nalini Moza** and Dr. Dhawan.
- 2) Synthesis and anticomplementary activity of 2-(2-ary 1-3 alkoxy-chromon-6yl propanoic acids). Indian Journal of Chemistry (1992), Vol 31B, 248-253. Om V.Singh, C.P. Garg, R.P. Kapoor, Aruna Kapil and **Nalini Moza**.
- 3) Anticomplementary activity of Boswellic Acids-An inhibitor of C3 convertase of the Classical Complement Pathway. International Journal of Immunopharmacology (1992), vol 14(7),1139-1143 **Nalini Moza** and Aruna Kapil.
- 4) Antileishmanial activity of Pro-complementary Compounds - One of the possible mechanisms for prevention of Leishmaniasis. CDRI Proceedings (1992), **Nalini Moza** and Aruna Kapil.
- 5) Neem (Azadirachta Indica) Immunomodulatory and Antimicrobial Properties. Immunotherapy of Infections (1993), 397-403. Shakti Upadhyay, Suman Dhawan and **Nalini Wali**.
- 6) Light induced activation of inert surface for covalent immobilization of Proteinaceous ligand. Analytical Biochemistry (2001) 148-153, **Nalini Wali**, Pradip Nahar, and R.P. Gandhi.
- 7) **U.S. Patent Patent No. 6245781**  
Method For Suppressing Allogenic Immune Response or Prevention/Treatment of Graft VS. Host Disease or Graft Rejection. Shakti Upadhyay, **Nalini Wali**, Suman Dhawan, N.K. Saraswati.
- 8) Contribution of organokines in the development of NAFLD/NASH associated hepatocellular carcinoma. (Review) Journal of Cellular Biochemistry. (29<sup>th</sup> March, 2022). Meenakshi Vachher, Savita Bansal, Bhupender Kumar, Sandeep Yadav, Taruna Arora, **Nalini Moza Wali** and Archana Burman.

#### Books published/edited

#### Book chapters published/edited

- 1) Antileishmanial activity of Pro-Complementary Compounds - One of the possible mechanisms for prevention of Leishmaniasis. CDRI Proceedings (1992), **Nalini Moza** and Aruna Kapil

#### Association with Professional Societies

#### Any Other:

Papers presented in National / International Conference:

- 1) Indo-German Symposium on Immunomodulatory Properties of Indian Medicinal Plants (1991). Work presented on Anticomplementary activity of Boswellic Acids – An Inhibitor of C3-convertase of the Classical Complement Pathway.
- 2) Golden Jubilee Symposium on Tropical Diseases: Molecular Biology and Control Strategies (1992). Work

presented: Antileishmanial Activity of Pro-complementary Compounds – A Possible Mechanism for Prevention of Leishmaniasis.

- 3) X-Annual Conference and National Symposium on Immuno-Diagnostics In Blood Transfusion, (1993). Work presented: Immunomodulatory and Antimicrobial properties of *Withania somnifera* (Ashwagandha).
- 4) Indo-French Symposium on Immunomodulation, (1995). Work Presented: Mangiferin, a naturally occurring glucosylxanthone, an Inducer of IL-12 potentiates Nitric Oxide Mediated Intracellular Killing of *Leishmania* by Macrophages.
- 5) National Symposium on Biomolecular Electronics Interfacing Physics and Chemistry with Biology, (1999). Work presented; Light Induced Activation of an Inert Surface for Covalent Immobilization of a Protein Ligand.

#### Academic/Administrative Assignments

- 1) Cultural committee – member,
- 2) Literary and Debating - Muzahira- convenor
- 3) Internal Complaint Committee – co-convenor
- 4) Internal Assessment Committee - member
- 5) Supernumerary Committee - Elective and other optional papers – co-member
- 6) Prize committee – member
- 7) Member; CBCS-LOCF Course revision University of Delhi, - BSc (Hons) Biochemistry.
- 8) Member; UGCF\_NEP Course revision University of Delhi- BSc (Hons) Biochemistry.

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

- 1) Participated as a resource person in the add-on short term certificate course on “Introduction to Clinical Biochemistry” organized by Department of Biochemistry, Institute of Home Economics, University of Delhi, New Delhi on June 03-10, 2025 and delivered a talk on “Diagnostic Biomarkers: Understanding of Hb, Glucose level fasting and post-prandial, glycated hemoglobin -Hb1Ac
- 2) Participated as a resource person in the Hands-on Workshop on “Biochemical Analysis of Biomolecules” organized by Department of Biochemistry, Institute of Home Economics, University of Delhi, New Delhi, November 19, 2024
- 3) Organizing member and participation in an online talk on “The role of indigenous technologies in the fight against COVID-19 pandemic” on 11th March, 2024.
- 4) Organizing member of National online Symposium in collaboration with Zirtiri Residential Science College, Aizawl, Mizoram on “Pre-Diabetes” on 9th February, 2024
- 5) Member of an organizing committee and participation in An International online symposium on “Chronobiology and mental Health” in collaboration by the Shastri Indo Canadian Institute (SICI) w.e.f. 6-7 March, 2023.
- 6) Participated as a resource person in a national workshop on “Qualitative Analysis of Carbohydrates” held at the Institute of Home Economics, University of Delhi, New Delhi, September 08, 2022.
- 7) Organization and participation in conducting Hands on workshop training on “Quantitative analysis of Carbohydrates” on 21st October, 2022.
- 8) Organization and participation of the workshop on “Techniques of Molecular Biology and Immunology” at Department of Biochemistry, Institute of Home Economics, University of Delhi, 7<sup>th</sup> February, 2019.
- 9) Organizer and resource person of outreach programme for school students on “Unravelling the mystery of DNA” on 19th August 2019.
- 10) Participated as a 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, August 27-28, 2018
- 11) Organizer and resource person of Workshop on “PCR & ELISA”, 7th April, 2017

- 12) Participated as a 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, September 12-13, 2017.
- 13) Participated as a resource person in a technical workshop “PCR & ELISA” held at the Department of Biochemistry, Institute of Home Economics, University of Delhi, New Delhi, April 7, 2017.
- 14) Participated as a speaker in a national workshop “Introduction to Clinical Biochemistry” held at the Department of Biochemistry, Institute of Home Economics, University of Delhi, New Delhi, September 1-2, 2016.
- 15) In the organizing committee of International workshop on ‘Emerging role of vitamin D in human health’ held on 4-5 October, 2011 organised by Institute of Home Economics, University of Delhi
- 16) Actively involved in organization of oration day lecture being presented by Dr Abdul Kalam Azad as a part of golden jubilee celebration of Institute of Home Economics, University of Delhi held on November 2, 2011.
- 17) Participated in National conference on “Sustainable development- A collective vision” held on 31st Oct-1st Nov, 2011 organised by Institute of Home Economics, University of Delhi.

#### FDPs and Webinars attended

- 1) Participated Four Weeks Faculty Induction/Orientation Programme, organized by Teaching Learning Centre Ramanujan College, University of Delhi under the aegis of MINISTRY OF EDUCATION PANDIT MADAN, University of Delhi 22<sup>nd</sup> January, 2024 - 20<sup>th</sup> February, 2024
- 2) Participated in One week FDP on “FORENSIC SCIENCE” organized by UGC-Malaviya Mission Teacher Training Centre (UGC-MMTTC/GAD-MMTTC), SGTB Khalsa College, University of Delhi in collaboration with University of Delhi (Department of Anthropology and Skills Enhancement Committee); Acharya Narendra Dev College, DU (Department of Biomedical Science) and Forensic Science Unit, SGTB Khalsa College, University of Delhi, 06th April 2024-18th April 2024.
- 3) One Week National Faculty Development Program on “ Blended Learning and LMS-Moodle”.Organized by UGC MMTTC, S.G.T.B. Khalsa College, University of Delhi, 1<sup>st</sup> May,2024 – 10<sup>th</sup> May, 2024
- 4) One-Day National Webinar entitled "GI Cancers: Esophageal, Stomach & Colon Cancers" organized by Indian Cancer Society, Delhi in collaboration with UGC Malaviya Mission Teacher Training Centre (UGC-MMTTC/GAD MMTTC), SGTB Khalsa College, University of Delhi. 1<sup>st</sup> May, 2024
- 5) One day -Faculty Development Program on “Research ethics and plagiarism” , organized by IHE, 31<sup>st</sup> October,2022

