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JMI ACHIEVERS AWARD (2023)

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Academic/Professional Experience

1. **Professor** (2015-till date): Faculty of Dentistry, Jamia Millia Islamia, New Delhi, India.
2. **Associate Professor** (2012-2015): Faculty of Dentistry, Jamia Millia Islamia, New Delhi, India.
3. **Reader** (2009-2012): Faculty of Dentistry, Jamia Millia Islamia, New Delhi, India.
4. **Lecturer** (2006-2009): Jamia Hamdard, Hamdard University, New Delhi, India.
5. **Lecturer** (2004-2006): School of Medicine and Public Health, University of Wisconsin, Madison, USA.
6. **Post-Doctoral Associate** (2002-2003): Medical College of Georgia, Georgia's Health Sciences University, Augusta, USA.
7. **Senior Resident/Demonstrator** (1998-2002): Jawaharlal Nehru Medical College, Aligarh Muslim University, Aligarh, India.

Affiliations/Memberships

- i) Associate Member, **American Society for Nutrition (ASN)**, USA.
 - ii) Life Member, **Association of Clinical Biochemists of India (ACBI)**, India.
 - iii) Life Member, **Indian Biophysical Society (IBS)**, India.
 - iv) Life Member, **Indian Science Congress Association**, India.
 - v) Life Member, **Indian Society of Blood Transfusion and Immunohematology**.
 - vi) Life Member, **Society of Biological Chemists (SBC)**, India.
 - vii) Member, **Indian Red Cross Society**, Delhi Branch.
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Awards/Honours

- Associate Editor, Frontiers in Molecular Medicine, Molecular Pathology, Frontiers Media.
- Certificate of Outstanding Contribution in Reviewing (2018), Elsevier.
- Editorial Board Member, Discover Food, Springer Nature.
- Editorial Board Member, Discover Medicine, Springer Nature.
- Editorial Board Member, Journal of Immunoassay and Immunochemistry, Taylor and Francis.
- Editorial Board Member: BMC Pharmacology and Toxicology, BioMed Central, Springer Nature.
- Editorial board, Biomedical Research and Therapy, Biomed Press.
- Editorial Board, Scientific Reports, Springer Nature.
- Elected Member of Academic Council/Majlis-i-Talimi (2009-2012), Jamia Millia Islamia, New Delhi.
- Featured in the Stanford University's coveted global list of top 2% scientist (2022).
- Featured in the Stanford University's coveted global list of top 2% scientist (2021).
- Guest Reviewer of International journals (published by Elsevier, Taylor Francis, Informa, Springer, etc).
- Included in the global list of top 2% scientists, University of Stanford (2020).
- Included in the Stanford University's list of World's Top 2% Scientists (2024).
- Included in the Stanford University's Coveted list of Top 2% Scientists (2023).
- Member; Internal Quality Assurance Cell (IQAC), JMI, New Delhi.

Journal Publications (2000-onwards)

1. Syed S Ali, Mohammad K Zia, Tooba Siddiqui, Haseeb Ahsan, Fahim H Khan. Influence of ascorbic acid on the structure and function of alpha-2-macroglobulin: Investigation using spectroscopic and thermodynamic techniques. Protein Peptide Letters 2020; 27: 201-209.
2. Hasina Najnin, Nisat Alam, Mohd. Mujeeb, Haseeb Ahsan, Waseem A Siddiqui. Toxicological evaluation of Cinnamomum tamala essential oil (CTEO) in Wistar rats. Journal Food Processing Preservation 2020; 44(2): e14328.

3. Syed Saqib Ali, Haseeb Ahsan, Mohammad K Zia, Tooba Siddiqui, Fahim H Khan. Understanding oxidants and antioxidants: Classical team with new players. *Journal Food Biochemistry* 2020; 44(3): e13145.
4. Tooba Siddiqui, Mohammad K Zia, Haseeb Ahsan, Fahim H Khan. Quercetin-induced conformational change and inactivation of alpha-2-macroglobulin: Multi-spectroscopic and calorimetric study. *Journal Biomolecular Structure Dynamics* 2020; 38(14): 4107-4118.
5. Anas Ahmad, Haseeb Ahsan. Ras mediated activation of NF- κ B and DNA damage response in carcinogenesis. *Cancer Investigation* 2020; 38(4): 185-208.
6. Anas Ahmad, Haseeb Ahsan. Biomarkers of inflammation and oxidative stress in ophthalmic disorders. *Journal Immunoassay Immunochemistry* 2020; 41(3): 257-271.
7. Anas Ahmad, Haseeb Ahsan. Lipid based formulations in cosmeceuticals and biopharmaceuticals. *Biomedical Dermatology* 2020; 4: 12.
8. Syed S Ali, Mohammad K Zia, Tooba Siddiqui, Haseeb Ahsan, Fahim H Khan. Bilirubin binding affects the structure and function of alpha-2-macroglobulin. *Journal Immunoassay Immunochemistry* 2020; 41(5): 841-851.
9. Mohammad A Khan, Khursheed Alam, Haseeb Ahsan, M. Moshahid A Rizvi. Peroxynitrite-Mediated Structural Changes in Histone H2A: Biochemical and Biophysical Analysis. *Protein Peptide Letters* 2020; 27(10): 989-998.
10. Amin Arif, Sana Ansari, Haseeb Ahsan, Riaz Mahmood, Fahim H Khan. Overview of Covid-19 pandemic: Immunology and Pharmacology. *Journal Immunoassay Immunochemistry*. 2021; 42(5): 493-512.
11. Syed S Ali, Haseeb Ahsan, Sana Ansari, Fahim H. Khan. Ameliorative effect of quercetin against modification induced by 5-fluorouracil on alpha-2-macroglobulin. *Biomedical Research Therapy* 2021; 8(12): 4740-4745.
12. Swati Dixit, Mohammad K Zia, Tooba Siddiqui, Haseeb Ahsan, Fahim H Khan. Interaction of organophosphate pesticide chlorpyrifos with alpha-2-macroglobulin: Biophysical and molecular docking approach. *Journal Immunoassay Immunochemistry*. 2021; 42(2): 138-153.
13. Swati Dixit, Mohammad K Zia, Tooba Siddiqui, Haseeb Ahsan, Fahim Halim Khan. Interaction of human alpha-2-macroglobulin with pesticide aldicarb using

- spectroscopy and molecular docking. *Protein Peptide Letters* 2021; 28(3): 315-322.
14. Swati Dixit, Mohammad K Zia, Tooba Siddiqui, Haseeb Ahsan, Fahim H Khan. Interaction of organophosphate pesticide chlorpyrifos with alpha-2-macroglobulin: Biophysical and molecular docking approach. *Journal Immunoassay Immunochemistry*. 2021; 42(2): 138-153.
 15. Mohammad K Zia, Tooba Siddiqui, Haseeb Ahsan, Fahim H Khan. Comprehensive insight into the molecular interaction of an anticancer drug-ifosfamide with human alpha-2-macroglobulin: Biophysical and in silico studies. *Journal Biomolecular Structure Dynamics* 2022; 42(9): 3907-3916.
 16. Haseeb Ahsan. The significance of teaching human biochemistry to dental students. *International Journal Medical Biochemistry*. 2021; 42(2): 136-142.
 17. Haseeb Ahsan. Dietary carbohydrates-Requirement and Recommendation in the human diet. *Current Nutrition Food Science* 2021; 17(9): 904-910.
 18. Mohammad K Zia, Tooba Siddiqui, Haseeb Ahsan, Fahim H Khan. Characterization of binding between anti-tumor drug 5-fluorouracil and human alpha-2-macroglobulin: Spectroscopic and molecular docking analyses. *Journal Biomolecular Structure Dynamics*. 2022; 40(17): 7949-7959.
 19. Swati Dixit, Haseeb Ahsan, Fahim H Khan. Pesticides and plasma proteins: unexplored dimensions in neurotoxicity. *International Journal Pest Management*. 2023; 69(3): 278-287.
 20. Anas Ahmad, Haseeb Ahsan. Lipid based preparations in cosmetics and pharmaceuticals. *International Journal Professional Holistic Aromatherapy* 2021; 10(3): 41-56.
 21. Archana Mishra, Mohammad K Ahmad, Haseeb Ahsan, Saba Khan, Sudhir Mehrotra, Roshan Alam. C(-106)T polymorphism in ALD2 and risk of microvascular complications in T2DM patients in North Indian population. *Molecular Biomedicine*. 2022; 3: 24.
 22. Haseeb Ahsan, Amin Arif, Sana Ansari, Fahim H Khan. The emergence of coronavirus disease: evolution from endemic to pandemic. *Journal Immunoassay Immunochemistry*. 2022; 43(1): 22-32
 23. Haseeb Ahsan. A brief history and discovery of autoimmunity. *Resonance*. 2022; 27: 2099-2105.

24. Haseeb Ahsan. A brief overview and history of human nutrition and health. *Current Biochemistry*. 2022; 9(2): 98-103.
25. Haseeb Ahsan. Clinical chemistry and biochemistry: Role of biomarkers and biomolecules. *Asian Journal Science Education*. 2022; 4(1): 17-24.
26. Haseeb Ahsan. Monoplex and multiplex immunoassays: approval, advancements and alternatives. *Comparative Clinical Pathology*. 2022; 31(2): 333-345.
27. Haseeb Ahsan. Rhupus: Dual rheumatic disease. *Journal Immunoassay Immunochemistry*. 2022; 43(2): 119-128.
28. Haseeb Ahsan. The Origins and History of Autoimmunity-A Brief Review. *Rheumatology Autoimmunity* 2022. 1-6.
29. Md. F Ahmad, Inamur Rahman, Nida Naseem, Nazia Imam, Hina Younus, Haseeb Ahsan, Waseem A Siddiqui. Antidiabetic potential of natural phytochemical antioxidants. *Journal Chemistry Nutritional Biochemistry*. 2022; 3(2): 26-43.
30. Md. F Ahmad, Md. Ali Haidar, Nida Naseem, Haseeb Ahsan, Waseem A Siddiqui. Hypoglycaemic, Hypolipidaemic and Antioxidant Properties of *Celastrus paniculatus* Seed Extract in STZ-induced Diabetic Rats. *Molecular Cellular Biomedical Sciences*. 2023; 7(1): 10-17.
31. Mohammad Z Kidwai, Roshan Alam, Haseeb Ahsan, Mohammad M Khan, Saba Khan. Analysis of MDA and FRAP in T2DM patients in Lucknow city, India. *Acta Biochimica Indonesiana*. 2022; 5(1): 84.
32. Mohd Danish Khan, Roshan Alam, Haseeb Ahsan, Mohammad M Khan, Saba Khan. Evaluation of serum alkaline phosphatase and calcium in T2DM patients in Lucknow. *Journal Current Biomedical Reports*. 2022; 3(3): 1-5.
33. Niharika Singh, Saba Khan, Mohammad M Khan, Haseeb Ahsan, Roshan Alam. Estimation of malondialdehyde and catalase activity in pregnant women at IIMS&R Hospital, Lucknow, India. *Acta Biochimica Indonesiana*. 2022; 5(2): 89.
34. Rizwan Ahmad, Haseeb Ahsan. Dual autoimmune diseases: Rheumatoid arthritis with systemic lupus erythematosus and type 1 diabetes mellitus with multiple sclerosis. *Rheumatology Autoimmunity* 2022; 2: 120-128.
35. Rizwan Ahmad, Haseeb Ahsan. Emerging technology of multiplexing in clinical diagnostics. *International Journal Health Sciences*. 2022; 16(2): 1-2.

36. Sadaf Parveen, Saba Khan, Haseeb Ahsan, Priyanka T Manger, Bhavana Gupta, Roshan Alam. Fat Mass and Obesity Associated (FTO) Gene and Polycystic Ovary Syndrome: Insight into Pathogenesis and Association with Insulin Resistance. *Human Nutrition Metabolism*. 2022; 30: 200174.
37. Swati Dixit, Haseeb Ahsan, Fahim H Khan. Interaction of synthetic pyrethroid insecticide deltamethrin with human alpha-2-macroglobulin: Spectroscopic and molecular docking studies. *Protein Peptide Letters*. 2022; 29(4): 284-292.
38. Syed S Ali, Haseeb Ahsan, Sana Ansari, Khan M Abdullah and Fahim H Khan. Photo-illuminated glutathione inactivates alpha-2-macroglobulin: Spectroscopic and thermodynamic studies. *Molecular Cellular Biomedical Sciences*. 2022; 6(1): 35-42.
39. Tooba Siddiqui, Mohammad K Zia, Mohammad Muaz, Haseeb Ahsan, Fahim Halim Khan. Interaction of silver nanoparticles with human alpha-2-macroglobulin: Biochemical and Biophysical Investigation. *Molecular Cellular Biomedical Sciences*. 2022; 6(3): 121-128.
40. Adiba Aasif, Roshan Alam, Haseeb Ahsan, Momammad M Khan, Arshiya Khan, Saba Khan. The role of kisspeptin in the pathogenesis of a polycystic ovary syndrome. *Endocrine Regulations* 2023; 57(1): 292-303.
41. Anas Ahmad, Mohammad Imran, Haseeb Ahsan. Biomarkers as Biomedical Bioindicators: Approaches and Techniques for the Detection, Analysis, and Validation of Novel Biomarkers of Diseases. *Pharmaceutics*. 2023; 15(6):1630.
42. Haseeb Ahsan. Therapeutic aspects of dietary fibre and glycemic index: a brief review. *Journal Life Science Biomedicine*. 2023; 13(1): 12-16.
43. Nabeela Usmani, Mukhtar Ahmad, Saba Khan, Mohammad M Khan, Haseeb Ahsan, Sadaf Parveen, Roshan Alam. Comparision of serum amylase and lipase in diagnosed Covid-19 survivors in a North Indian Hospital, Lucknow, India. *Acta Biochimica Indonesiana*. 2023; 6 (1): 141.
44. Nida Naseem, Md. F Ahmad, Nazia Imam, Haseeb Ahsan, Waseem A Siddiqui. The potential of esculin as a therapeutic modality in diabetes mellitus and its complications. *Human Nutrition Metabolism*. 2023; 33: 200207.
45. Niharika Singh, Saba Khan, Mohammad M Khan, Haseeb Ahsan, Roshan Alam. Estimation of malondialdehyde and catalase activity in pregnant women at IIMS&R Hospital, Lucknow, India. *Acta Biochimica Indonesiana*. 2022; 5(2): 89.

46. Roshan Alam, Haseeb Ahsan, Saba Khan. The Role of Malondialdehyde (MDA) and Ferric Reducing Antioxidant Power (FRAP) in Patients of Hypertension. *Molecular Cellular Biomedical Sciences*. 2023; 7(2): 58-64.
47. Saif Ali, Roshan Alam, Haseeb Ahsan, Saba Khan. Role of adipokines (omentin and visfatin) in coronary artery disease. *Nutrition Metabolism Cardiovascular Diseases*. 2023; 33(3):483-493.
48. Saif Ali, Roshan Alam, Mohammad K Ahmad, Mushtaq Ahmad, Haseeb Ahsan, Mohammad M Khan, Saba Khan. Evaluation of serum adipokines (omentin-1 and visfatin) in coronary artery disease at a North Indian hospital. *Endocrine Regulations* 2023; 57(1):262-268.
49. Sana Ansari, Haseeb Ahsan, Mansour K Gatasheh, Fahim H Khan. Studies on the binding of myricetin with human alpha-2-macroglobulin: Biophysical and in silico analysis. *Journal Biological Physics*. 2023; 49: 29-48.
50. Sana Ansari, Mohammad K Zia, Haseeb Ahsan, Md. A Hashmi, Fahim H Khan. Binding characteristics and conformational changes in alpha-2-macroglobulin by the dietary flavanone naringenin: biophysical and computational approach. *Journal Biomolecular Structure Dynamics*. 2024; 42(14): 7485-7500.
51. Sana Ansari, Mohammad K Zia, Shamila Fatima, Haseeb Ahsan, Fahim H Khan. Probing the binding of morin with alpha-2-macroglobulin using multi-spectroscopic and molecular docking approach. *Journal Biological Physics*. 2023; 49: 235-255.
52. Swati Dixit, Haseeb Ahsan, Fahim H Khan. Cytoprotective effect of alpha-2-macroglobulin against pesticides induced generation of ROS in neuronal SH-SY5Y cells. *Biomedical Research Therapy* 2023; 10(2): 5537-5544.
53. Swati Dixit, Haseeb Ahsan, Fahim H Khan. Effect of pesticides on SARS CoV-2 infection: Role of ACE2, TMPRSS2 and CD147. *Biomedical Research Therapy*. 2023; 10(9): 5876-5883.
54. Tooba Siddiqui, Mohammad K Zia, Mohammad Muaz, Haseeb Ahsan, Fahim H Khan. Synthesis and characterization of silver nanoparticles (AgNPs) using chemico-physical methods. *Indonesian Journal Chemical Analysis*. 2023; 6 (2): 124-132.
55. Yash Misra, Sana Ansari, Amin Arif, Haseeb Ahsan, Fahim H Khan. Characterising the interaction of Carmine with Human Serum Albumin using

- biophysical and molecular docking approach. *Journal Macromolecular Science*, B. 2023; 62(10): 515–530.
56. Md. F Ahmad, Tariq Aziz, Nida Naseem, GG Hammad A Shadab, Haseeb Ahsan, Hina Younus, Mohammad S Ola, Waseem A Siddiqui. Beneficial Effects of Ferulic Acid in Streptozotocin-Induced Diabetic Neuropathy in Wistar Rats. *Nutrire*. 2024; 49: 8.
 57. Mohammad K Zia, Tooba Siddiqui, Sana Ansari, Mohammad Muaz, Haseeb Ahsan, Fahim H Khan. Insight into the molecular interaction between the anticancer drug, enzalutamide and human alpha-2-macroglobulin: Biochemical and biophysical approach. *Spectrochimica Acta A: Molecular Biomolecular Spectroscopy*. 2024; 311: 123957.
 58. Sana Ansari, Amin Arif, Mohammad K Zia, Haseeb Ahsan, Owais Ahmad, Rizwan H Khan, Fahim H Khan. Investigation on the molecular interaction between dietary flavone luteolin and alpha-2-macroglobulin using multi-spectroscopic, calorimetric and molecular dynamics simulation techniques. *Journal Molecular Liquids*. 2024; 398: 124198.
 59. Md. F Ahmad, Inamur Rahman, Nida Naseem, Nazia Imam, Hina Younus, Haseeb Ahsan, Waseem A Siddiqui. Therapeutic potential of phenolic phytochemicals in diabetes mellitus. *Resonance*. 2024. 29(10): 1389-1399.
 60. Ahmed A Rehman, Masihuz Zaman, Hussain Arif, Haseeb Ahsan, Rizwan H Khan, Fahim H Khan. Interaction of Esculetin with Alpha-2-Macroglobulin: Biochemical and Biophysical Approaches. *Journal Macromolecular Science B*. 2025; 64(2): 202-214.

Book Chapters (2000-onwards)

1. Haseeb Ahsan, Rizwan Ahmad. Multiplex Technology for Biomarker Immunoassays. 2020. IntechOpen.
2. Haseeb Ahsan, Mohammad Yusuf Hasan, Rizwan Ahmad. Translational Autoimmunity. Etiology of Autoimmune Diseases, in *Translational Immunology*. 2021. Role of free radicals in autoimmune diseases. Academic Press.
3. Haseeb Ahsan, Mohammad Yusuf Hasan, Rizwan Ahmad. Reactive Oxygen Species. *Reactive Oxygen Species (ROS) in the Pathophysiology of Rheumatoid Arthritis (RA)*. 2022. IntechOpen.
4. Haseeb Ahsan, Mohammad Yusuf Hasan, Rizwan Ahmad. Novel Therapeutic Approaches Targeting Oxidative Stress. *Ferroptosis: Oxidative stress and pathophysiology*. 2022. Academic Press.