

DR. AHMAD ALI

Associate Professor and Head
Molecular Biochemistry Laboratory
Department of Life Sciences, University of Mumbai
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RESEARCH AREA

Biochemistry, Biotechnology, Molecular Biology and Pharmacognosy

RESEARCH INTEREST

- Non-enzymatic Glycosylation (Glycation), DNA and protein damage
- Bioactivities of Natural Products from Plant and Cyanobacteria
- Oxidative stress, Metabolic disorders
- Nanoparticles and their bioactivity
- Protein aggregation

RESEARCH PROFILES:

IRINS	:	https://mu.irins.org/profile/302082
Web of Science Researcher ID	:	F-3740-2017
Scopus ID	:	57189469775
ORCID ID	:	https://orcid.org/0000-0003-4467-5387
ResearchGate	:	Ahmad Ali ResearchGate Page
Google Scholar	:	Ahmad Ali Google Scholar Page

PROFESSIONAL EXPERIENCE (TEACHING & RESEARCH)

22.04.2025 to till date	:	Working as Associate Professor in the University Department of Life Sciences, University of Mumbai
01.09.2012 – 21.04.2025	:	Worked as Assistant Professor in the University Department of Life Sciences, University of Mumbai
28.06.2010 - 30.08.2012	:	Worked as Lecturer in the Dept. of Biotechnology, National Institute of Pharmaceutical Education and Research (NIPER), Hajipur, Bihar
11.06.2007 - 14.06.2010	:	Worked as Lecturer in the Dept. of Biotechnology, Thakur College of Science & Commerce (affiliated to University of Mumbai)

08.02.2007 - 30.04.2007	: Worked as Lecturer in the Dept. of Biotechnology, Smt. C. H. M. College, Ulhasnagar, Thane (affiliated to University of Mumbai)
25.11.2005 - 07.02.2007	: Worked as Research-cum-Teaching Assistant in the Dept. of Life Sciences, University of Mumbai
07.09.1999 - 30.07.2002	: Worked as Project Assistant for three years on a University Grants Commission, Government of India major research project titled " Molecular Biology of Nitrogen Metabolism in Crop Plants " in the Dept. of Life Sciences, University of Mumbai, Mumbai

RESEARCH PROJECTS

- **Ongoing**
 - Title: Drug proving studies, mechanistic insight and development of novel delivery systems of UNIM-H and UNIM-R for effective treatment of arthritis
 - Funding agency: Central Council Research in Unani Medicine (**CCRUM**), **Ministry of AYUSH, Govt. of India**
- **Completed**
 - Title: Antiglycating properties of *Nigella sativa* seed extracts
 - Funding agency: University of Mumbai, Mumbai (2018-19)
 - Title: Study of glycation of proteins by sweeteners
 - Funding Agency: Research Society for the study of Diabetes in India (RSSDI)
 - Title: Studies on Non-enzymatic Glycosylation of DNA and Proteins by sugars and dicarbonyls (Start-up grant)
 - Funding Agency: University Grants Commission (UGC), New Delhi
 - Title: "*In vitro* study on the glycation of DNA by sweeteners"
 - Funding agency: University of Mumbai, Mumbai (2015-16)
 - Title: *In vitro* study on non-enzymatic glycosylation of protein and DNA
 - Funding Agency: University of Mumbai, Mumbai (2013-14)

Students guided/Enrolled

- Ph. D. students – Completed – 03; Enrolled – 04
- Two Junior Research Fellows in CCRUM Project
- Guided 62 students of MSc Part II Life Sciences for the Review of Literature and Project work
- Presently guiding four students of M. Sc. for the Project work.
- M. S. Pharm. Biotechnology (NIPER, HAJIPUR)

FELLOWSHIPS AND AWARDS

- Received **Erasmus+ Training Mobility Program Funds** within ICM Project KA171- 2022 to visit University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania 15.10.2024 to 30.10.2024.
- Received **Registration sponsorship** by Academy of Excellence in Biosciences (AEB) to participate in the virtual global event "The Asian Conference on Science, Technology & Medicine (ACSTM)" organized by Asian Council of Science Editors (ACSE) on 20th November 2021
- **EMBO Travel Grant** to attend European Molecular Biology Organization (EMBO) Research Course: Research to Service Planning and Running a Bioinformatics Core Facility" from April 8-12, 2019, at Izmir Biomedicine and Genome Center, Izmir, Turkey
- Received Grant from **DST-PURSE fund of University of Mumbai** for attending EMBO Workshop

MEMBERSHIPS

- Life Member of Society of Biological Chemists (SBC, India)
- Life Member of Society for Neurochemistry (SNCI)
- Member of American Chemical Society (ACS)
- Member of International Maillard Reaction Society (IMARS)
- Member of Asian Council of Science Editors (ACSE)
- Life Member of Indian Science Congress Association (ISCA)
- Life Member of Research Society for the Study of Diabetes in India (RSSDI)
- Life Member of Association of Pharmaceutical Teachers of India (APTI)
- Life Member of International Natural Product Sciences Taskforce (INPST)
- Life Member of European Federation of Biotechnology (EFB)
- Life Member of Asian Federation of Biotechnology (AFOB)

EDITORIAL BOARDS

- Editorial Review Board, Natural Product Communications,
<https://journals.sagepub.com/editorial-board/NPX>
- Coordinating Editor, Annals of Phytomedicine
(<http://ukaazpublications.com/publications/index.php>)
- Executive Editorial Board, Current Perspectives on Medicinal and Aromatic Plants (CUPMAP)
<http://www.cupmap.org/?SyfNmb=2&pt=Editorial+Board>
- Section Editor, Commagene Journal of Biology
<https://dergipark.org.tr/en/pub/commagene/board>
- Disease and Research
<https://dr.clintile.com/en/expert?id=d286112f-f028-4bd3-948e-640ab4fdaccb&dutyId=35804acf-da5d-4288-b824-9fc6ed45a01>
- International Journal of Health Services Research and Policy

- <http://dergipark.org.tr/en/pub/ijhsrp/board>
- Section Editor (Molecular Biology and Biochemistry), Journal of Health Sciences of Kocaeli University, Kocaeli Üniversitesi Sağlık Bilimleri Dergisi <http://dergipark.gov.tr/kusbed/board>
- Biosciences Biotechnology Research Asia <http://www.biotech-asia.org/editorial-board/>
- International Journal of Academic Medicine and Pharmacy <https://academicmed.org/editorial-board>
- Publication and Advisory Board, Journal of Innovative Healthcare Practices <https://dergipark.org.tr/en/pub/joinihp/board>

REVIEWER OF JOURNALS

- Annals of Phytomedicine, Biochemistry Journal, 3 Biotech (Springer Journal), Biological Research & Reviews, Chemosphere, Current Perspectives on Medicinal and Aromatic Plants (CUPMAP), Ecotoxicology and Environmental Safety, Frontiers in Plant Science, Frontiers in Oncology, Indian Journal of Biochemistry and Biophysics (IJBB), Indian Journal of Biotechnology (IJBT), Industrial Crops and Products, International Journal of Biological Macromolecules (IJBM), International Journal of Diabetes in Developing Countries (IJDDC), Journal of King Saud University: Science, Journals of Scientific and Industrial Research (JSIR), Malaysian Journal of Nutrition, Nanotechnology Review, Plant Science Today, Saudi Journal of Biological Sciences.

PUBLICATIONS

Research Papers	: 103
Total Citations	: 2019 (Google Scholar); 1990 (ResearchGate); 1093 (Scopus); 898 (Web of Science)
h-index	: 24 (Google Scholar); 25 (ResearchGate) 19 (Scopus); 17 (Web of Science)
Book	: 01 (LAP Lambert Academic Publishing Mauritius)
Book Chapters	: 50

1. Pandey, P.R., Sharma, P., **Ali, A.**, Sachar, S. 2026. Efficient Photodegradation of Rifampicin in Wastewater Effluents Using Mg-Doped CuO Nanocomposites. **Journal of Inorganic and Organometallic Polymers and Materials** <https://doi.org/10.1007/s10904-026-04256-2>
2. Mishra, I.D., Sharma, P., Barage, S., Jobby, R., **Ali, A.**, Sachar, S. 2026. Optimized Peppermint Oil-Tween 80 Nanoemulsion Enables Superior Curcumin Retention, Antioxidant Efficacy, and Biocompatibility. **BioNanoScience**. 16:274 <https://doi.org/10.1007/s12668-026-02501-z>
3. Bhatkalkar, S. G., Khan, S., Kumar, D., **Ali, A.**, Jha, P., Tungare, K., Bhoori, M., Sharma, S., Sachar, S. 2026. Surfactant-driven stabilization of silver nano colloids for biological and environmental applications. **Surfaces and Interfaces**, 87:1-17. <https://doi.org/10.1016/j.surfin.2026.108847>

4. Sharma, P., Mandal, B., Shaikh, N., Khan, T., **Ali, A.** 2025. Integrated Phytochemical Characterization and in-vitro Antioxidant, Anti-inflammatory and Safety Evaluation of Selected Medicinal Plants. **Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Food Science and Technology**. 82 (2): 111-121. <https://doi.org/10.15835/buasvmcn-fst:2025-0076>
5. Bamne, F., Sharma, P., Shaikh, N., Momin, M., Khan, T., **Ali, A.** 2025. Evaluation of Antioxidant Capacity and Safety Profile of Selected Medicinal Plant Extracts. **Bioscience Biotechnology Research Asia**. 22(3):1087-1098. <https://doi.org/10.13005/bbra/3425>
6. Sharma, P., Kumar, D., Abdoul-Latif, F. M., Ainane, T., **Ali, A.** 2025. Antioxidant and antiglycation application of *Ferula asafetida* resin and *Eucalyptus globulus* oil: A mechanism-based insight on diabetic research. **Plant Science Today**. 12(4): 1-10. <https://doi.org/10.14719/pst.9340>
7. Bamne, F., Shaikh, N., Momin, M., Khan, T., **Ali, A.** 2025. Analysis of Phytochemical, Antioxidant and DNA Damage Preventive Potential of Selected Indian Plants. **Indian Drugs**. 62(9):46-53. <https://doi.org/10.53879/id.62.09.15123>
8. Bajaj, T., Alim, H., **Ali, A.**, Patel, N. 2025. Synthesis of plant secondary metabolites under the influence of elicitors, application in stress management and In vitro techniques to enhance their production. **Physiological and Molecular Plant Pathology**. 102905, <https://doi.org/10.1016/j.pmpp.2025.102905>.
9. Matin, M., Singla, R. K.,**Ali, A.**, Kan Yeung, A. W., Bonn, G. K., Shen, B., Atanasov, A. G. 2025. Health-promoting and medicinal properties of Zingiberaceae family plants: A minireview with a special focus on galangal, turmeric, cardamom, and ginger. **Current Research in Biotechnology**. 10: 100329. <https://doi.org/10.1016/j.crbiot.2025.100329>
10. Balyan, P., Farah, M. A., Al-Anazi, K. M., Kumar, C. S., Spinu, M., **Ali, A.** 2025. Methylglyoxal Trapping Action of *Nigella sativa* L. Seed Extract and its Bioactive Constituent Thymoquinone. **Natural Product Communications**. 20(7). <http://dx.doi.org/10.1177/1934578X251339353>
11. Paramanya, A., Ola, M. S., **Ali, A.** 2025. Biophysical Insights into Phycocyanin Binding and Antiglycation Activity with Bovine Serum Albumin. **Natural Product Communications**, 20(4), <http://dx.doi.org/10.1177/1934578X251333966>
12. Abid, A., Mekhadmi, N., Mlik, R., Bentahar, A., Bireche, K., Frih, B., Boussebaa, W., Mouane, A., Cherrada, N., Sanches Silva, A., Dekmouche, M., Bechki, L., Al-Anazi, K. M., Farah, M. A., **Ali, A.** 2025. Unveiling the Therapeutic Potential of *Atractylis aristata* Batt. Aqueous Extract: Anti-inflammatory, Antioxidant, Antibacterial, Sedative Activities and Phytochemical Profiling. **ChemistryOpen**, e202500056. <https://doi.org/10.1002/open.202500056>
13. Kumar, D., Al-Anazi, K. M., Farah, M. A., **Ali, A.** 2025. Role of Ascorbic Acid and Pyridoxal-5-Phosphate in the Prevention of Glucose-Induced Damage of Protein and DNA. **Natural Product Communications**, 20(2). <https://doi.org/10.1177/1934578X251319388>
14. Khan, S., Kumar, D., **Ali, A.**, Sachar, S. 2025. Influence of surfactants on association of cadmium sulfide nanoparticles with biomolecules. **Journal of Molecular Liquids**, 422:127148. <https://doi.org/10.1016/j.molliq.2025.127148>

15. Touahria, T., Zahnit, W., D'Urso, G., Khattabi, L., Lauro, G., Chini, M.G., Bifulco, G., Casapullo, A., Al-Anazi, K.M., Farah, M.A., **Ali, A.** 2025. Unveiling the potential biological and chemical mechanism of *Pergularia tomentosa* extracts by liquid chromatography-electrospray ionisation-high-resolution Tandem Mass Spectrometry, in-Vitro and in-Vivo pharmacological studies. **Chemistry & Biodiversity**, e202403006. <https://doi.org/10.1002/cbdv.202403006>
16. Djilali, K., Maachi, R., Danish, M., Lekmine, S., Hadjadj, M., Ait Mesbah, Z., Benslama, O., Tahraoui, H., Ola, M. S., **Ali, A.**, Zhang, J., Amrane, A. 2025. A Novel Mobile Phase for Green Chromatographic Determination of Haloperidol: Application to Commercial Pharmaceutical Products and Forced Degradation Studies. **Processes**, 13(1), 260. <https://doi.org/10.3390/pr13010260>
17. Paramanya, A., Abdoul-Latif, F. M., **Ali, A.** 2024. Analysis of antioxidant, antityrosinase and antiglycating properties of a blue-green algae based skin cream. **Annals of Phytomedicine**, 13(2), 621-630. <http://dx.doi.org/10.54085/ap.2024.13.2.63>
18. Goudjil, S., Boussekine, S., Goudjil, S., Goudjil, H., Yilmaz, M. A., Ola, M. S., **Ali, A.**, Cakir, O. 2024. Investigation of Algerian *Crataegus monogyna* Jacq Phenolic Compounds (Using LC-ESI-MS/MS Analysis, Antioxidant Activity, and Enzyme Inhibition) and Their Potential Implications for Food and Nutraceutical Applications. **Antioxidants**, 13(11), 1350. <https://doi.org/10.3390/antiox13111350>
19. Bensaci, C., Belguidoum, M., Khattabi, L., Abid, A., Touahria, T., Zahnit, W., Harchaoui, L., Rahmani, Z., Boussebaa, W., Laichi, Y., Belfar, A., Farah, M., Al-Anazi, K., **Ali, A.** 2024. *Drimys maritima* flowers as a source of biologically potent components: Optimization of bioactive compound extractions, isolation, UPLC-ESI-MS/MS, and pharmacological properties. **Open Chemistry**, 22(1), 20240087. <https://doi.org/10.1515/chem-2024-0087>
20. Balyan, P., Farah, M. A., Al-Anazi, K. M., **Ali, A.** 2024. Monosaccharide-Mediated Glycooxidation of Bovine Serum Albumin and Its Prevention by *Nigella sativa*. **ACS Omega**, 9(40), 41722-41731. <https://doi.org/10.1021/acsomega.4c05913>
21. Chafaa, N., Mosbah, C., Khattabi, L., Malaoui, K., Zahnit, W., Smaali, M. E. A., Houri, F., Medfouni, Y., Al-Anazi, K. M., **Ali, A.** 2024. Algerian Prickly Pear Seed By-Products: Fatty Acids Composition, Antioxidant, Enzyme Inhibitory Activities towards Tyrosinase, Urease, α -Amylase, and Cholinesterase, along with the Ability to Protect from Thermal Protein Denaturation. **Pharmaceuticals**, 17(9), 1145. <https://doi.org/10.3390/ph17091145>
22. Gherdaoui, D., Yahoum, M. M., Toumi, S., Lekmine, S., Lefnaoui, S., Benslama, O., Bouallouche, R., Tahraoui, H., Ola, M. S., **Ali, A.**, Zhang, J., Amrane, A. 2024. Elucidating Chiral Resolution of Aromatic Amino Acids Using Glycopeptide Selectors: A Combined Molecular Docking and Chromatographic Study. **International Journal of Molecular Sciences**, 25(16), 9120. <https://doi.org/10.3390/ijms25169120>
23. Abdoul-Latif, F. M., Ainane, A., Achenani, L., Ali, A. M., Mohamed, H., **Ali, A.**, Jutur, P. J., Ainane, T. 2024. Production of Fucoxanthin from Microalgae *Isochrysis galbana* of Djibouti: Optimization, Correlation with Antioxidant

- Potential, and Bioinformatics Approaches. **Marine Drugs**. 22(8), 358. <https://doi.org/10.3390/md22080358>
24. Paramanya, A., **Ali, A.** 2024. Effect of *Arthrospira platensis* extracts on glycation of BSA. **Acta Biologica Szegediensis**, 68(1), 23-30. <https://doi.org/10.14232/abs.2024.1.23-30>
 25. Lekmine, S., Benslama, O., Kadi, K., Brik, A., Djeffali, O., Ounissi, M., Slimani, M., Ola, M.S., Eldahshan, O.A., Martín-García, A.I., **Ali, A.** 2024. Preliminary Investigation of *Astragalus arpilobus* subsp. *hauarensis*: LC-MS/MS Chemical Profiling, In Vitro Evaluation of Antioxidant, Anti-Inflammatory Properties, Cytotoxicity, and In Silico Analysis against COX-2. **Antioxidants**, 13(6), 654. <https://doi.org/10.3390/antiox13060654>
 26. Paramanya, A., Abiodun, A. O., Ola, M. S., **Ali, A.** 2024. Antiglycating Effects of *Spirulina platensis* Aqueous Extract on Glucose-Induced Glycation of Bovine Serum Albumin. **Chemistry & Biodiversity**, e202400281. <https://doi.org/10.1002/cbdv.202400281>
 27. Pradhan, Y., Devkota, H. P., **Ali, A.** 2024. Potential Role of Medicinal Plants and their Phytochemicals Against Plaque Forming Oral Microbiota. **Biosciences Biotechnology Research Asia**, 21(2): 371-389. <http://dx.doi.org/10.13005/bbra/3232>
 28. Lefter, R., Balyan, P., Balmus, I.-M., Ech-Chahad, A., Ali, A., Ciobica, A., Petroaie, A.D., Halitchi, G., Novac, B., Ionescu, C., Kamal, F. Z. 2024. Polysaccharides and Lectins: A Natural Complementary Approach against the SARS-CoV-2 Pandemic. **Microbiology Research**. 15:525-549. <https://doi.org/10.3390/microbiolres15020035>
 29. Lekmine, S., Benslama, O., Tahraoui, H., Ola, M. S., Laouani, A., Kadi, K., Martín-García, A.I., **Ali, A.** 2024. Anti-Cholinergic Effects of the Phenolic Extract from the *Astragalus crenatus* Plant: A Computational and Network Pharmacology Study" **Pharmaceuticals** 17(3): 348. <https://doi.org/10.3390/ph17030348>
 30. Paramanya, A., Abiodun, A. O., Ola, M. S., Ali, A. 2024. Enhancing the quality and antioxidant capacity of phycocyanin extracted from *Spirulina platensis* PCC 7345: A quality-by-design approach. **Arabian Journal of Chemistry**, 17(3), 105653. <https://doi.org/10.1016/j.arabjc.2024.105653>
 31. Lekmine, S., Benslama, O., Kadi, K., Martín-García, A. I., Ola, M. S., Yilmaz, M. A., **Ali, A.** 2024. The therapeutic potential of *Hyoscyamus niger*-derived compounds: Targeting ovarian cancer through antioxidant activity and EGFR tyrosine kinase inhibition. **Journal of King Saud University-Science**, 36(3), 103103. <http://dx.doi.org/10.1016/j.jksus.2024.103103>
 32. Arif, R., Akrema, Pulaganti, M., Rubab, U., **Ali, A.**, Khan, M. S., Rahis Uddin. 2024. Evaluation of in vitro antibacterial, DNA binding, DNA damage, DFT and antioxidant studies of aminobenzaldehyde-based heterocyclic Schiff base derivatives. **Chemical Papers**. 78, 2867–2883. <https://doi.org/10.1007/s11696-023-03277-2>
 33. Acaroz, U., Kurek-Gorecka, A., Olczyk, P., Tas, N., Ali, A., Paramanya, A., Balyan, P., Noor, A., Kamaraj, S., Malekifard, F., Hosseini, A., Istanbulgil, F. R., Arslan-Acaroz, D., Asma, S. T., Segueni, N., Ceylan, A. B., Jin, X. 2024. The role of bee

- products in the control of antimicrobial resistance and biofilm formation. *KafkasUniversitesiVeterinerFakultesiDergisi* 30 (2): 131-153. <https://doi.org/10.9775/kvfd.2023.30966>
34. Bamne, F., Shaikh, N., Momin, M., Khan, T., **Ali, A.** 2023. Phytochemical analysis, antioxidant and DNA nicking protection assay of some selected medicinal plants. **Annals of Phytomedicine.** 12(2):406-413. <http://dx.doi.org/10.54085/ap.2023.12.2.50>
 35. Khan, S. M., Balyan, P. **Ali, A.**, Sharma, S., Sachar, S. 2023. Exploring the effect of surfactants on the interactions of manganese dioxide nanoparticles with biomolecules. **Journal of Biomolecular Structure and Dynamics.** 43(2):1-21. <https://doi.org/10.1080/07391102.2023.2283157>
 36. Bozorgi, M., Iranzadasl, M., Ali, A., Memariani, Z. 2023. Dermatological effects of *Pistacia* species: A systematic review. **Journal of Herbmmed Pharmacology.** 13(1):28-42. <http://dx.doi.org/10.34172/jhp.2024.48163>
 37. Shahu, R., Kumar, D., **Ali, A.**, Tungare, K., Al-Anazi, K.M., Farah, M.A., Jobby, R., Jha, P. 2023. Unlocking the Therapeutic Potential of *Stevia rebaudiana* Bertoni: A Natural Antiglycating Agent and Non-Toxic Support for HDF Cell Health. **Molecules.** 28, 6797. <https://doi.org/10.3390/molecules28196797>
 38. Balyan, P., **Ali, A.** 2023. Anthraquinone and coumarin as potential natural products against human coronavirus strain. **Acta Pharmaceutica Scientia,** 62(3): 498-514. <http://dx.doi.org/10.23893/1307-2080.APS6231>
 39. Lekmine, S., Benslama, O., Kadi, K., Martín-García, A.I., Yilmaz, M.A., Akkal, S., Boumegoura, A., Alhomida, A.S., Ola, M.S., **Ali, A.** 2023. LC/MS-MS Analysis of Phenolic Compounds in *Hyoscyamus albus* L. Extract: In Vitro Antidiabetic Activity, In Silico Molecular Docking, and In Vivo Investigation against STZ-Induced Diabetic Mice. **Pharmaceutics,** 16, 1015. <https://doi.org/10.3390/ph16071015>
 40. Paramanya. A., Farah, M. A., Al-Anazi, M. A., Devkota, H. P., **Ali, A.** 2023. Exploring the Potential of *Spirulina (Arthrospira platensis)* Aqueous Extract in Preventing Glycation of Hemoglobin and pBR322 Plasmid. **Pharmacognosy Magazine.** 19(3):581-591 <https://doi.org/10.1177/09731296231170959>
 41. Chaudhari, F. Balyan, P. **Ali, A.** 2023. Mechanisms and therapeutic opportunities in erectile dysfunction for advanced glycation end products (AGEs). **Journal of Experimental and Clinical Medicine.** 40(2):390-400. <http://dx.doi.org/10.52142/omujecm.40.2.35>
 42. **Ali, A.**, Paramanya, A., Poojari, P., Arslan-Acaroz, D., Acaroz, U., Kostić, A. Ž. 2023. The Utilization of Bee Products as a Holistic Approach to Managing Polycystic Ovarian Syndrome-Related Infertility. **Nutrients,** 15(5), 1165. <http://dx.doi.org/10.3390/nu15051165>
 43. Khan, S. M., Bhatkalkar, B., Kumar, D., **Ali, A.**, Sharma, S., Sachar, S. 2023. Surfactant influences the interaction of copper sulfide nanoparticles with biomolecules, **Journal of Molecular Liquids,** 369. <https://doi.org/10.1016/j.molliq.2022.120881>

44. Kumar, D., **Ali, A.** 2022. Effect of Different Artificial Sweeteners on Protein Glycation. **Acta Biologica Szegediensis**. 66(2):132-138. <http://dx.doi.org/10.14232/abs.2022.2.132-138>
45. Balyan, P., Ola, M.S., Alhomida, A.S., **Ali, A.** 2022. D-Ribose-Induced Glycation and Its Attenuation by the Aqueous Extract of *Nigella sativa* Seeds. **Medicina**. 58, 1816. <https://doi.org/10.3390/medicina58121816>
46. Balyan, P., Akhter, J., Kumar, P., **Ali, A.** 2022. Traditional and modern usage of *Nigella sativa* L. (Black cumin). **Annals of Phytomedicine**, 11(2):255-265. <http://dx.doi.org/10.54085/ap.2022.11.2.28>
47. Kamal, F.Z., Lefter, R., Mihai, C.-T., Farah, H., Ciobica, A., **Ali, A.**, Radu, I., Mavroudis, I., Ech-Chahad, A. 2022. Chemical composition, antioxidant and antiproliferative activities of *Taraxacum officinale* essential oil. **Molecules**, 27, 6477. <https://doi.org/10.3390/molecules27196477>
48. Khan, J., Kumar, D., **Ali, A.** 2022. Molecular insight into the antiglycating and antiaggregating potential of ferulic acid with BSA. **Monatshefte fuer Chemie/Chemical Monthly**. 153:1277–1285 <https://doi.org/10.1007/s00706-022-02983-z>
49. Eryugur, N., Ayaz, F., Bağci, Y., Ayyildiz, H. F., Cağil, E. M., Malik, P., **Ali, A.** 2022. Investigation of phenolic compounds, in vitro antioxidant and enzyme inhibition activities of methanol and aqueous extracts of different parts of *Glaucosciadium cordifolium*. **Botanica Serbica** 46(2): 239-252. <https://doi.org/10.2298/BOTSERB2202239E>
50. Khan, J., Rasmi, Y., Kirboğa, K.K. **Ali, A.**, Rudrapal, M., Patekar, R. R. 2022. Development of gold nanoparticle-based biosensors for COVID-19 diagnosis. **Beni-Suef University Journal of Basic Applied Sciences**. 11, 111. <https://doi.org/10.1186/s43088-022-00293-1>
51. Mistry, K., Sardar, S. D., Alim, H., Patel, N., Thakur, M., Jabbarova, D., **Ali, A.** 2022. Plant based proteins: sustainable alternatives. **Plant Science Today**. 9(4):820-8. <http://dx.doi.org/10.14719/pst.1652>
52. Kumar, D., Shah, N., Al-Anazi, K. M., Farah, M. A., Ali, M. A., Lee, J., **Ali, A.** 2022. Potential role of *Tribulus terrestris* fruit extract in inhibition of advanced glycation end products. **Pharmacognosy Magazine**. 18:341-7. http://dx.doi.org/10.4103/pm.pm_589_21
53. Balyan, P., **Ali, A.** 2022. Comparative analysis of the biological activities of different extracts of *Nigella sativa* L. seeds. **Annals of Phytomedicine**. 11(1):577-587. <http://dx.doi.org/10.54085/ap.2022.11.1.67>.
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 38. Balyan, P., Khan, J., **Ali, A.** 2021. Therapeutic potential of *Nigella sativa* in the prevention of aggregation and glycation of proteins. In: Black Seeds (*Nigella sativa*) Pharmacological and Therapeutic Applications. Andleeb Khan and Muneeb Rehman (Eds.). Elsevier. Pp. 313-335. <https://doi.org/10.1016/B978-0-12-824462-3.00015-9>
 39. Khan, J., **Ali, A.**, Balyan, P., Bhat, E. A. 2021. Role of *Nigella sativa* as immunomodulator. In: Black Seeds (*Nigella sativa*) Pharmacological and Therapeutic Applications. Andleeb Khan and Muneeb Rehman (Eds.). Elsevier. Pp. 337-353. <https://doi.org/10.1016/B978-0-12-824462-3.00005-6>
 40. Shaikh, Z., **Ali, A.** 2021. Nitrate assimilation: cross talk between plants and soil. In: Frontiers in Plant-Soil interaction - Molecular Insights into Plant Adaptation. Tariq Aftab and Khalid Rehman Hakeem (Eds.). Academic Press. Chapter 6, Pp. 135-151 <http://dx.doi.org/10.1016/B978-0-323-90943-3.00002-X>
 41. Paramanya A., Prairna, Şekeroğlu N., **Ali A.** 2021. Secondary Metabolites for Sustainable Plant Growth and Production Under Adverse Environment Conditions. In: Husen A. (Ed.) Harsh Environment and Plant Resilience. Springer, Cham. https://doi.org/10.1007/978-3-030-65912-7_18
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 43. Paramanya, A., Prairna, Sharma, S., Bagdat, R. B., **Ali, A.** 2020. Recent practices of medicinal and aromatic plants in nanotechnology. In book: Nanomaterials for Agriculture and Forestry Applications; Azamal Husen and Muhammad Iqbal (Eds.). Elsevier Science Publishing Co Inc. Pp. 435-467. <https://doi.org/10.1016/B978-0-12-817852-2.00018-4>
 44. Memariani, Z., Farzaei, M. H., **Ali, A.**, Momtaz, S. 2019. Nutritional and bioactive characterization of unexplored food rich in phytonutrients. In book: Phytonutrients in Food: From Traditional to Rational Usage Edition: First Publisher: Elsevier Science Publishing Co Inc (Imprint - Woodhead Publishing). Pp. 157-175. <https://doi.org/10.1016/B978-0-12-815354-3.00001-0>
 45. Khatri, S., Paramanya, A., **Ali, A.** 2019. Phenolic acids and their health promoting activity. In Plant and Human Health, Volume 2 - Phytochemistry and Molecular Aspects, Munir Ozturk and Khalid Rehman Hakeem (Eds.). Springer Nature Switzerland. Pp. 661-680. https://doi.org/10.1007/978-3-030-03344-6_27

46. Paramanya, A., Jha, P., **Ali, A.** 2019. Bioactive compounds in *Spirulina* sp.: Applications and potential health effects. In Next Generation research in Aquaculture, J K Sundaray and M A Rather (Eds.) Narendra Publishing House, Delhi. Pp. 197-218.
47. Jha, P., **Ali, A.** 2019. Bio-nanoparticles in the treatment of glycation-induced secondary complications of diabetes. In Nanomaterials and Plant Potential; Azamal Husen and Muhammad Iqbal (Eds.). Springer Nature Switzerland. Pp. 299-316. https://doi.org/10.1007/978-3-030-05569-1_12
48. **Ali, A.**, Paramanya, A., Prairna, Doukani, K., Zehra, S. 2019. Antioxidants in glycation related diseases. In Oxidative Stress and Antioxidant Defense: Biomedical Value in Health and Diseases, Md. Sahab Uddin and Aman Upaganlawar (Eds.). NOVA Science Publishers, Hauppauge, USA. Pp. 465-488
49. Tariq, M., **Ali, A.** 2019. Plant derived natural products as anti-glycating agents. "Pharmacological Perspectives of Low Molecular Weight Ligands" Editors: Debarshi Kar Mahapatra, Sanjay Kumar Bharti, Apple Academic Press, Ontario, Canada. Pp. 17-44
50. Lochab, S., **Ali, A.** Jha, P., Sharma, V., Abbey, D., and Raghuram, N. (2010). Assay methods for nitrate assimilatory enzymes in *Spirulina* (*Arthrospira*). In Protocols on Algal and cyanobacterial Research, Bagchi, S.N. Kleinber, D. and Mohanty, P. (Eds). Narosa, New Delhi, Pp. 179-189.

ADMINISTRATIVE RESPONSIBILITIES

- **Head**, Department of Life Sciences, University of Mumbai since August 2026
- Member of the "**Executive Body**" of University of Mumbai's Garware Institute of Career Education and Development (UM-GICED)
- Member of **Institutional Multi-Disciplinary Research Advisory Committee (IMRAC)**, Regional Research Institute of Unani Medicine
- Member of **Working Group of Experts** for workshop MLT/Biochemistry/Microbiology Curriculum. Ministry of Family Health and Welfare, Government of India
- **Member**, Local Inquiry Committee, University of Mumbai for recognition of Colleges for Ph. D. courses. August 2023 and 2024
- **Secretary**, International Conference on Sustainability: Integrated and Scientific Approach (ICS-2022). University of Mumbai. August 4-6, 2022
- **Co-coordinator**, **16th Avishkar Research Convention** 2021-22, Zone X University Departments
- Member of **International Organizing Committee** for MESMAP4, 5, 6, 7, 8, & 9 Turkey.
- **Subject Expert for Research Advisory Committee** for evaluation of PhD students of Dept. of Life Sciences - Ramnarain Ruia College, Dept. of Life Sciences – St. Xavier's College and Dept. of Biotechnology - R. D. National College, Mumbai, NMIMS, Mumbai.

- Member of **Scientific Committee** for International Congress on Biological and Health Sciences (ICBH). 2021, 2022, & 2023
- Member of **Advisory Board**, Biodiversity Application and Research Center (BiYOMER), Igdir University, Turkey
- Member of **International Organizing Committee** for IHSC 2019 and IHSC 2020, Diyarbakir, Turkey
- Member of **Organizing Committee as Associate Director**, International Web Conference on Perspective on Agricultural and Applied Sciences in Covid-19 Scenario (PAAS 2020). Organized by AETDS (Uttarakhand), BARI (Bangladesh), Shobhit Institute (Meerut), SWERI and ARC (Egypt). October 4-6, 2020.
- **Co-organizing Chairman**, International Conference Global Perspective in Agricultural and Applied Sciences for Food and Environmental Security, Kumaun University, December 1st and 2nd, 2019.
- **Member** of Organizing Committee, One-day State Level Seminar on Higher Education and Research: Industrial Opportunities, Organized by the GKS College of Arts, Commerce & Science and Department of Life Sciences, University of Mumbai, August 20th, 2019
- Member of **Panel of Expert on Natural Sciences**, National Council for Promotion of Urdu Language (NCPUL), Ministry of Human Resource Development, Govt. of India
- Honorary **Faculty Member** of Novel Global Community Educational Foundation (NGCEF), Australia
- Member of **International Organizing Committee** for ISPBS5, April 24-28, 2019, Cappadocia – Turkey
- **Convenor and Member** of Organizing Committee, National Symposium on Facets of Life Sciences, Organized by the Department of Life Sciences, University of Mumbai, March 26-27, 2019
- Member of **Board of Studies**, Department of Bioinformatics - Khalsa College (University of Mumbai), Mumbai and Dept. of Life Sciences - K. C. College, Mumbai
- Member of **National Advisory Board**, 5th National Asian PGPR Conference for Sustainable and Agriculture Eco-Friendly Bio-Innovations for Integrated Crop Management & Soil Health. Department of Botany and Microbiology, Acharya Nagarjuna Univ., Guntur, Andhra Pradesh & Indian Chapter of Asian PGPR Society. Feb. 23-25, 2019.
- Member of **Local Advisory Committee** and **Resource Person** of Recent Trends in Life Sciences, Poona College of Arts, Science & Commerce, Pune, India. Jan. 4th and 5th, 2019.
- **'Judge'** for University Level Final Round of 13th Inter-Collegiate/Institute/Department **Avishkar Research Convention: 2018-2019 and 2019-2020.**

- **Scientific Program Committee Member**, 2nd International Online Conference on Biological Sciences (IOCBS 2018), July 22nd, 2018.
- **Chairperson** – M. Sc. Life Sciences Part II (Semester III and IV) Examinations (University of Mumbai) for Academic Year 2018-19, 2019-20 and 2020-21
- **External Examiner**, University of Technology, Mauritius (June 2017 to June 2019).
- **Coordinator**, 123rd Orientation Programme, UGC-HRDC, University of Mumbai, May 28th – June 23rd 2018.
- **Member of Biosafety Committee**, National Centre for Nanoscience and Nanotechnology, University of Mumbai (2017-18).
- **Chairman** – M. Sc. Life Sciences Part I (Semester I and II) Examinations (University of Mumbai) since Academic Year 2017-18.
- Member of **Subject Board** (Board of Studies, BOS) in Life Sciences, Ramnarain Ruia College, University of Mumbai for 2 years from July 2017.
- Member of **Organizing Committee** for “National Seminar on Facets of Life Sciences”. March 22nd-23rd, 2017. Organized by Department of Life Sciences, University of Mumbai.
- Member of **Organizing Committee** for “8th Indian Youth Science Congress”. February 16th – 18th, 2017. Co-organized by University of Mumbai and MSSRF.
- Member of **National Advisory Committee** for “International Conference on Health Implications of Biotechnology”. Feb 12th - 14th 2016. Organized by Central University of South Bihar, Patna, Bihar.
- Member of **Screening Committee** of Minor Research Projects, University of Mumbai for the year 2015-16
- Member of **Project Implementation Group** – DST-FIST since Nov 2014 (Term – 5 years)
- **Course In charge** – M. Sc. Life Sciences (Spl.: - Biochemistry formerly Biological Macromolecules) since June 2013
- Departmental member of **Purchase Committee** since June 2013
- **Member of Organizing Committee**, one-day National Conference on “Advances in Biological Science”. Organized by the Department of Biotechnology, University of Mumbai. Dec. 24th, 2014.
- Departmental **Coordinator for Avishkar** (Annual Research Convention) for Academic Year 2014-15
- **Chairman** – M. Sc. Life Sciences Part I Examinations (University of Mumbai) for Academic Year 2013-14
- Worked as **Resource Person** for Collaborative Undergraduate Biology Education (CUBE) workshop. Organized by Homi Bhabha Center for Science Education (HBCSE), TIFR, Mumbai. June 29th and 30th 2013.
- Worked as Member, **Board of Examiner**, M. Sc. Biotechnology (2nd Semester), Central University of Bihar, 20th and 21st May 2013.

- **External Examiner** – A. M. U., Amity University, Banasthali University, D. Y. Patil University, Integral University, MGM Medical College, Shivaji College (Akola), NMIMS.
- **Thesis Evaluation** – Aliah University, Banasthali University, CHRIST University Integral University, University of Hyderabad,

COURSES/WORKSHOPS ATTENDED

- One-month Hands-on Training Workshop on **Zebrafish Husbandry Education & Applications in Biomedical Research** organized by ZebCoG-Zebrafish Laboratory, Department of Medical Biotechnology, MGM School of Biomedical Sciences, MGMIHS, Navi Mumbai, Maharashtra sponsored by Government of India Ministry of Health & Family Welfare's Department of Health Research. March-April 2026.
- Completed Four weeks DHR, Government of India sponsored Training Course on **Human Disease Models: Approaches, Advances and Applications**. National Institute for Research in Reproductive and Child Health, Mumbai. May 6 - 31 2024.
- ICGEB sponsored one-week Workshop and Course on "Algal Metabolomics" International Centre for Genetic Engineering and Biotechnology, New Delhi. March 25 – 31, 2024.
- Participated in one-week Faculty Development Programme on Environmental Science, Sustainable Agriculture and Human Health (ESSAHH). Centurion University of Technology and Management, Paralakhemundi, Odisha. February 6 – 10, 2024
- Completed one-week Government of India sponsored NEP 2020 Orientation & Sensitization Programme. UGC-MMTTC National Institute for Educational Planning and Administration, New Delhi. November 20 – 29, 2023)
- Attended DST-STUTI, Government of India sponsored one week course on "Advanced Immunological Tools and Techniques". Central University of South Bihar, Gaya, Bihar. September, 19 – 25, 2022)
- Scientific committee member and Invited speaker, International Congress on Bee Sciences, June, 16-18, 2022. (Online)
- Attended 3-days "European Molecular Biology Laboratory (EMBL) Course: Exploratory Analysis of Biological Data: Data Carpentry" from January 28th to 30th, 2020 at EMBL Heidelberg, Germany.
- Attended 3-weeks Refresher Course in Basic Science (Interdisciplinary) at UGC-HRDC, Jamia Millia Islamia, New Delhi. November 5th to November 19th, 2019.
- Attended one week "European Molecular Biology Organization (EMBO) Practical Course: Research to Service Planning and Running a Bioinformatics Core Facility" from April 8th to 12th, 2019 at Izmir Biomedicine and Genome Center, Izmir, Turkey.
- Invited Speaker for 2nd International Conference, Advances in Agricultural, Biological and Applied Sciences for Sustainable Future (ABAS 2018), Subharti University, Meerut, U.P., India. Oct. 20-22, 2018.
- Invited Speaker and Session Chair for 4th International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP4). April 18th – 22nd, 2018. Antalya, Turkey.

- Worked as “Resource Person” for Unani Day Celebration and International Conference on Unani Medicine. Organized by CCRUM, Ministry of Ayush, Govt. of India. Feb. 10-11, 2018.
- Attended 3-weeks Refresher Course at UGC-Academic Staff College, Jamia Millia Islamia, New Delhi. November 15th to December 6th, 2017.
- Science Academics' sponsored Lecture workshop on “OMICS: Basics and Applications”. Organized by Indian Women Scientists' Association (IWSA). July 8th – 9th, 2017.
- Systematic Review and Meta-analysis. Sept. 19th-21st 2016. NIRRH, Mumbai.
- Participated in 2-weeks “Science Academies' Refresher Course on Developmental Biology”. Organized by NIRRH, Mumbai and Sophia College for Women, Mumbai. 16th-28th November, 2015.
- Participated in 2-days workshop on “Biostatistics in Teaching and Research”. Ruparel College, Mumbai. 4th and 5th September, 2015.
- Attended one-day SBC (I) Mumbai Chapter meet. NIRRH, Mumbai. August 22nd, 2015.
- Participated in 102nd Indian Science Congress at University of Mumbai. Jan 3rd-7th, 2015.
- Attended 4-weeks Orientation Programme at UGC-Academic Staff College, Jamia Millia Islamia, New Delhi. August 5th to September 3rd, 2014.
- Attended Six-day workshop on “Hands on Training for Teachers in Biology” at Khalsa College. Jointly organized by National Facility for Biopharmaceuticals (NFB) and UGC Academic Staff College, University of Mumbai. March 10th-15th, 2014.
- Three weeks Refresher Course on “Advances in Life Sciences”. Academic Staff College, University of Mumbai, Mumbai. 7th- 26th October 2013.
- Delivered a Lecture on “Research Misconduct” in Orientation Course organized by Patna University, Patna, Bihar, 4th December 2011.

PRESENTATIONS (INVITED SPEAKER/RESOURCE PERSON/ORAL – Last 10 years)

- Ali, A. 2026 (Invited). 2nd International Science and Technology Congress (ICSAT 2026), Erzurum, Turkiye, May 2-9, 2026 (Online).
- Ali, A. 2026. (Resource Person). Unani Day and National Conference, Mumbai. Organized by CCRUM, Ministry of AYUSH. February, 14-15, 2026.
- Ali, A. 2026. (Oral). 3rd International Ayush Conference & Exhibition, Dubai. Organized by Science India Forum and World Ayurveda Foundation with support from Ministry of AYUSH, Govt. of India and Consul General of India, Dubai. February 15-17, 2026.
- Ali, A. 2025. (Invited). Therapeutic Potential of UNIM-H, a Polyherbal Unani Formulation Targeting Oxidative Stress and Chronic Inflammation. 12th International Convention of the Society for Ethnopharmacology, India (SECON 2025) and The International Conference on “Traditional Medicine – Ancient & Modern Concordance”. Centre of Excellence in Unani Medicine (Pharmacognosy & Pharmacology), Jamia Hamdard, New Delhi. 30–31 October 2025.

- Ali, A. 2025. (Invited). Phytochemical Characterisation and In-Vivo Anti-Arthritic Efficacy of UNIM-H In Experimental Rat Models. 24th International Conference "Life Sciences for Sustainable Development", USAMV Cluj-Napoca, Romania. 25–27 September 2025.
- Ali, A. 2025. (Invited Speaker). Evaluation of Anti-arthritic potential of Selected Medicinal Plants. VI International Congress of Natural Products (V COPNAT). Academic League of Medicinal Plants of the Pharmacy course at the Cesmac University Center, Brazil. 17 -20 June 2025 (Online).
- Ali, A. 2025 (Oral). Anti-Inflammatory Potential of Traditional Unani Formulations at 6th Asian Conference on Science, Technology & Medicine 25-26 February, 2025. (Online).
- Ali, A. 2025 (Resource Person). Molecular Insights into the anti-inflammatory property of Unani Formulations. Unani Day 2025 & International Conference, CCRUM, Ministry of AYUSH, Vigyan Bhawan, New Delhi. 11– 12 Feb, 2025.
- Ali, A. 2024. (Invited Speaker). Glucose Induced Toxicity and its Suppression by Natural Products. 9th International Congress on Veterinary and Animal Sciences (ICVAS/Hybrid. 27-28 December 2024. (Online).
- Ali, A. 2024. (Keynote Speaker). Anti-inflammatory Potential of Some Commonly Used Plants in Unani Medicine. International Congress on Trends and Advances in Global Research and Applications (TAGRA 2024). 21-22 December 2024 (Online).
- Ali, A. 2024. (Invited Speaker). 'Plagiarism and Its Consequences' Association of Hungarian PhD and DLA Candidates (DOSZ), Hungary. 30 Nov. 2024. (Online)
- Ali, A. 2024. (Invited Speaker). 'Scientific Conduct and Misconduct in Research' Association of Hungarian PhD and DLA Candidates (DOSZ), Hungary. 14 Nov. 2024. (Online)
- Ali, A. 2024. (Keynote Speaker). Analysis of Anti-Arthritic Potential of Selected Medicinal Plants. 2nd International Conference of SRTA - City Egypt "The Challenges and Future Prospects of Biotechnology: Bringing Scientific research with Industry". New Borg El-Arab City, Alexandria, at SRTA City, Egypt, 1-2, September 2024 (Online).
- Ali, A. 2024. (Invited Speaker). Health implications of Glycation products in Diabetes and its Secondary Complications International Conference on Engineering, Natural Sciences, and Technological Developments (ICENSTED 2024). Bayburt University (Bayburt, Türkiye), 19th – 21st July, 2024. (Online).
- Ali, A. 2024. (Invited Speaker). Comparative Analysis of Phytochemicals in Suppression of Glycoxidation Toxicity. V International Congress of Natural Products (V COPNAT). Academic League of Medicinal Plants of the Pharmacy course at the Cesmac University Center, Brazil. 17th -20th June 2024,
- Ali, A. 2024. (Invited Speaker). Isolation of Phycocyanin from Spirulina and Assessment of its Antiglycation Potential International Conference on Medical Plants and Natural Drug Research (ICMPNDR-2024)". Al Farabi Kazakh National University, Almaty, Kazakhstan. 6th – 8th June 2024.
- Paramanya, A., Ali, A. (Oral). Utilizing Response Surface Methodology to Improve Consistency in Phycocyanin Extraction. The 10th International

Mediterranean Symposium on Medicinal and Aromatic Plants" (MESMAP-10) İstanbul University, İstanbul – Türkiye. 25-27 April 2024.

- Ali, A. 2024. (Invited Speaker). Bee Products in the Management of Female Health Reproductive Issues. Third International Congress on Bee Sciences. International Congress on Bee Sciences. 24th – 26th April 2024
- Ali, A. 2024. (Invited Speaker). Health promoting activities of bioactives of *Nigella sativa* and *Spirulina platensis*. Biotechnology of Natural Products and the Environment. CERD, DJIBOUTI. 22nd- 24th April 2024.
- Ali, A. 2024. (Resource Person). Advanced Glycation End Products in Diabetes and Neurodegenerative Disorders. New Research Horizons in Chemical, Physical and Life Sciences 2024 Maulana Azad College, Aurangabad. 25th Feb, 2024.
- Ali. A. 2023 (Resource Person). Glycation: Central role in Diabetes and Neurodegenerative disorders for the Refresher Course in Life Science. UGC – Malaviya Mission Teacher Training Centre, University of Calicut. 16th Dec. 2023
- Ali. A. 2023 (Plenary Talk). Phenolics Interact and Suppress the Glycation of Serum Protein. 8th Euro-Mediterranean Conference of Life Sciences, Pharma and BioMedicine (BioNat-8). Cairo, Egypt, 5th -7th Oct 2023.
- Paramanya, A., Ali, A. 2023. Evaluation of *Spirulina platensis* aqueous extract - infused skin cream. 2nd Natural Cosmetics International Meeting. University of Information Technology and Management in Rzeszów, Poland. 20 -22 Sep 2023.
- Balyan, P., Ali, A. 2023. (Invited talk). Suppression of Toxicity of Advanced Glycation End Products by *Nigella sativa* Extract. International Conference on "Advancement in Physical Sciences: Promoting Societal Welfare, Sustainable Development and NEP-2020". Sridev Suman Uttarakhand University, Rishikesh, Dehradun, Uttarakhand, 15- 16 Sep. 2023. Online
- Paramanya, A., Ali, A. 2023. (Keynote Speaker). Antiglycating Properties of *Spirulina Platensis*. International Marmara Sciences Congress, Kocaeli University. 9th and 10th, June 2023. Online
- Kumar, D., Ali, A. 2023. (Keynote Speaker). Vitamin C and B6 Suppress the Glucose-induced Structural Alteration of Protein. 1st International Rumeli Congress on Food and Health Sciences. Istanbul Rumeli University Faculty of Health Sciences. 28-29 Aug. 2023. Online
- Ali, A. 2023. (Invited Lecture). Scientific conduct and misconduct. 'Invited Lecture Series on Biological Science. Jointly organized by Government P. G. College Bazpur U. S. Nagar Uttarakhand, S. S. College Shahjahanpur U.P. 29th May 2023. Online
- Kumar, D., Ali, A. 2023. (Oral). Analysis of interaction kinetics of ascorbic acid – BSA complex and antiglycation potential. The 9th International Mediterranean
- Symposium on Medicinal and Aromatic Plants (MESMAP9). Ankara, Turkey. 3-5 May, 2023, ONLINE
- Ali, A. 2023. (Invited Oral), The Immunomodulatory properties of Bee Products. 3rd International Congress on Bee Sciences. 24-26 April 2023. Online

- Kumar, D., Ali, A. 2023. (Invited Speaker). Molecular interaction between curcumin and serum protein and its antiglycating potential. 3rd International Congress on Biological and Health Sciences (ICBH), 14-16 April 2023. ONLINE
- Invited Guest for the Weekly program "Project Talks". Iğdır University Project Development and Coordination Office, Iğdır University, 7th, April 2023.
- Resource person to deliver a lecture on "Scientific conduct and misconduct during One-week Course Work on Research Publication and Ethics. Dr. Homi Bhabha State University, Mumbai, 4th. April 2023.
- Ali, A. 2023. (Invited Speaker). Suppression of toxicity of advanced glycation end products by *Nigella sativa* extract. Global Conference on Pharmaceutical Sciences and Chemistry, 20-21, March 2023. ONLINE
- Resource person to deliver a lecture on "Molecular Basis of Glycation: Role in Diabetes and Cardiovascular Diseases" during the National seminar, on "Molecular Biology & Genomics: A Bullseye for future pharmacy" at VIVA College of Pharmacy, Virar, Palghar. 25th Feb. 2023.
- Resource person to deliver a lecture on "Suppression of Sugars Toxicity by fruit extract of Khar-e-khasakkhurd (*Tribulus terrestris*)" International Conference on Unani Medicine and Unani Day 2023. Central Council of Research in Unani Medicine (CCRUM), Ministry of AYUSH, Govt. of India, New Delhi. 10th, Feb. 2023
- Ali, A. 2023. Biomarkers for glycation and aggregation. First International Congress of Biomarkers. Urmia University of Biomedical Sciences, Urmia, Iran. 22, Feb. 2023. ONLINE
- Ali, A. 2023. (Keynote Speaker). Suppression of Glucose Toxicity during Diabetes by Natural Products. International Conference of Technovation on Production and Processing of Medicinal Plants. Isfahan Chamber of Commerce, Industries, Mines and Agriculture and Islamic Azad University, Khorasgan, Iran, 11-12, Jan. 2023
- Resource person to deliver a lecture on "Sugar induced changes in biomolecular structure during Diabetes" under DST-STUTI Program, Jamia Hamdard, New Delhi, 30th Jan. 2023.
- Eminent Speaker to deliver a lecture on "Natural products as potent antiglycating and antiaggregating agent" at the Ministry of Ayush sponsored National Symposium on "Advances in Natural Product Research Methodology" by Sandip University, Nashik, Maharashtra. 25th- 26th, Nov. 2022
- Keynote Speaker, International Congress on New Horizons of Science (INCOHIS), Istanbul technical University and Kocaeli University, 25th- 26th, Nov. 2022. ONLINE
- Resource person to deliver a lecture on "Research and Ethics" in the Induction Program for UG and PG courses at MGM School of Biomedical Sciences and Medical College, MGM IHS, Navi Mumbai. August 18th 2022.
- Paramanya, A., Ali, A. 2022 (Invited Speaker). Antiglycating potential of *Spirulina platensis*, a cyanobacterium. XIIth Conclave of Indian Association for the Study of Traditional Asian Medicine, India. Organized by Jamia Hamdard University and IASTAM-India at New Delhi, India, July 29th - 30th, 2022

- Kumar, D., Ali, A. 2022. (Oral). Potential role of Ferulic acid in Glycation of Serum Albumin. 8th International Marmara Sciences Congress, Kocaeli University. 13-15, May 2022. ONLINE
- Paramanya, A., Ali, A. 2022 (Oral). Suppression of Advanced Glycation End Products (AGEs) by Phycocyanin from *Spirulina platensis*. 14th International Phytocosmetics and Phytotherapy Congress (IPPC) Egypt. Faculty of Pharmacy at the Fayoum University of Egypt. 10-12, May 2022. ONLINE
- Paramanya, A., Ali, A. 2022 (Oral). Analysis of antiglycation and antiaggregation properties of Phycocyanin. Istanbul International Modern Scientific Research Congress – III. Istanbul Gedik University, Istanbul, Turkey. 6-8, May 2022. ONLINE
- Paramanya, A., Ali, A. 2022 (Oral). Antiglycating properties of *Spirulina platensis*. Emerging Trends in Biotechnology and Sustainable Chemistry: (ETBSC- 2022) Jointly organized by the Department of Biotechnology and Department of Chemistry, Faculty of Sciences, Baba Farid College, Bathinda, Central University of Punjab, Bathinda and Society for Biotechnologists, India. 27-29, April, 2022. ONLINE.
- Delivered a lecture as Invited speaker on “Sugar toxicity and its consequences: Hyperglycemia and Diabetes during the 2nd International Congress on Biological and Health Sciences (ICBH) Online. 25-27 February 2022. (Online)
- Kumar, D., Ali, A. 2021. (Oral). Antiglycating potential of zinc oxide nanoparticle and its interaction with BSA. “World Congress on Applied Nanotechnology (W-CAN)”, Nanoscience and Nanoengineering Application and Research Center, Atatürk University, Turkey. 24-26 Nov. 2021. ONLINE
- Kumar, D., Ali, A. 2021. (Oral). Antiglycating and Antiaggregation potential of natural products. 4th Asian Conference on Science, Technology & Medicine (ACSTM)" organized by Asian Council of Science Editors. 20 Nov. 2021. ONLINE
- Kumar, D., Shah, N., Ali, A. 2021. (Oral). Antiglycation and Antioxidant Properties of *Tribulus terrestris*. The 7th International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP7). 18-20, Nov. 2021, Izmir, Turkey. ONLINE
- Keynote speaker to deliver a lecture on “Glycation: molecular mechanism and impact during Diabetes” during 'The 2nd International Pharmaceutical and Medical Sciences Conference" organized by Faculty of Pharmacy for Girls - Al-Azhar University, Egypt. 1-3 November 2021. (Online)
- Kumar, D., Ali, A. (Oral). Molecular Mechanism of Antiglycating Phytochemicals. XLIV All India Botanical Conference of the Indian Botanical Society on Plant Science Research in Present Scenario: Opportunities and Challenges. Organized by Jai Narain Vyas University, Jodhpur, India. 18-20, Oct. 2021.
- Invited speaker to deliver a lecture on “Anti-AGE properties of Acesulfame potassium and its interaction with BSA” during 3rd International Conference on GIAFAS-2021 organized by Agricultural & Environmental Technology Development Society (AETDS), U.S. Nagar, Uttarakhand, India at Shri Guru Ram Rai University, Dehradun, Uttarakhand, India. 17-18 October 2021.

- Invited speaker to deliver a lecture on "Plant Metabolic Pathways as Source of Natural Therapeutics" during 7th International Agriculture Congress. 16th October 2021. (Online)
- Invited to deliver a Plenary Presentation on "Acesulfame potassium prevents Glycation induced structural alterations in Biomolecules" during XIVth International Symposium on "Actual problems of Chemistry, Biology and Technology of Natural Compounds" devoted to 30-year Anniversary of the Independence of the Republic of Uzbekistan. Organized by "Academy of Science of the Republic of Uzbekistan" at Tashkent on 7-8 October 2021. (Online)
- Delivered a lecture as Guest Speaker on 'An overview of interaction between Ferulic acid and BSA and its antiglycating properties' during 3rd International JSPSAE symposium. Japanese Society for the Promotion of Science Cairo Office. 24-26 September 2021. (Online)
- Invited Speaker to deliver a lecture on 'Plant derived natural products as anti-glycating agents" during VIII Simpósio de Plantas Medicinais do Vale do São Francisco and 2st France-Brazil Meeting on Natural Products. Petrolina, Pernambuco, Brazil, 22-25 September 2021.
- Invited Speaker to deliver a lecture on 'Skin-Whitening Effect of Extract and Cream Prepared Using *Spirulina platensis*' during X National Students' Conference of the Silesian College of Medicine in Katowice, Poland on 19-21 Sep. 2021.
- Invited Speaker to deliver a lecture on 'Artificial sweeteners and their health implications' during International Congress on Food Science and Public Health. Organized by Tekmaconf, Tehran, Iran. 14-16 September 2021
- Invited Speaker to deliver a lecture on 'Traditional and Modern Usage of *Nigella Sativa* (Black Cumin)' during 1st Kocaeli Traditional and Complementary Medicine Congress, jointly organized by Kocaeli Metropolitan Municipality, Atatürk University, Acupuncture and Complementary Medicine Application and Research Center, and Anatolian Traditional and Complementary Medicine Association. 12 June 2021
- Kumar, D., Malik, P., Ali, A. 2021. (Oral). Potential role of extract and bioactives of *Nigella sativa* in the prevention of Glycation and Glycooxidation. 12th International Phytocosmetics and Phytotherapy Congress (IPPC-Greece). 19-21 May 2021. ONLINE.
- Resource Person to deliver a lecture on 'Research Methodology: Key to success in Research', during International Webinar on "Basics of research Methodology and use of Statistics in Biology" organized by Rizvi College of Arts, Science and Commerce, Bandra, Mumbai on 1st April 2021
- Kumar, D., Ali, A. 2021. (Oral). Identification of Potential Antiglycating Molecules by Using Molecular Docking and in Vitro Approach. International Congress on Biological and Health Sciences (ICBH), 26-28, Feb. 2021. (Honorable mention award for oral presentation). ONLINE
- Guest Speaker to deliver a lecture on 'Research Misconduct' during National Level Virtual FDP in Prospects and Retrospects in Life Science organized by the

Department of Biochemistry, Rathnavel Subramaniam College of Arts and Science, Coimbatore, Tamil Nadu, 22ndFeb 2021.

- Resource Person to deliver a lecture on 'Research Misconduct' FDP on Research Methodology by MGM School of Biomedical Sciences, MGMIHS, Navi Mumbai, India, 6thJan 2021.
- Invited Speaker to deliver a lecture on 'Nutritional and Health benefits of Spirulina' during 2-days International Conference – Emerging Trends in Life Sciences (ICETLS – 2020) organized by Department of Botany, Telangana University, Nizamabad, Telangana, 16th Dec 2020.
- Kumar, D., Ali, A. 2020. (Oral). Inhibition of glucose toxicity and aggregation by thymoquinone during diabetes. 4thInternational Health Sciences Conference 2020 (IHSC 2020). Dicle University, Diyarbakir, Turkey. 5-6, Nov. 2020. ONLINE
- Praina Malik, Ali, A. 2020, (Oral). Prevention of Advanced Glycation End Products by the seed extracts of *Nigella sativa*. The 6thInternational Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP6). 15-17, Oct. 2020, Izmir, Turkey. ONLINE
- Guest speaker to deliver a lecture on 'Phenolic Acids and their role in prevention of Glycation' during AICTE online STTP entitled "Impact of polyphenols in enzyme inhibition and formulation of healthcare apparels". organized by the Department of Biotechnology jointly with Departments of Textile and Fashion Technology, Kumaraguru College of Technology, Coimbatore, Tamil Nadu, 14th Oct 2020.
- Invited speaker to deliver a lecture on 'Sugar induced changes in Biomolecular Structure during Diabetes' in 'Invited Lecture Series on Biological Science, ILSBS:2020(3) jointly organized by Government P. G. College Bazpur U. S. Nagar Uttarakhand, S. S. College Shahjahanpur U.P. and Society for Research in Biological Science. 24 Aug to 28 Aug 2020.
- Invited Speaker, 2-days International e-conference on "Impact of Covid-19 on Human Health & Environment". Organized by P. G. Dept. of Botany, Tata College, Chaibasa, Jharkhand. 29-30, July 2020.
- Kumar, D., Ali, A. 2020. (Oral). Inhibition of advanced Glycation products by natural and artificial compounds. Emerging Trends in Bioscience and Technology (ETBT- 2020). Organized by School of Science, Sandip University, Nasik, India & Biotechnology Society of Nepal (BSN), 1-3, June 2020. (E-conference). (Consolation Certificate for the Best Oral Presentation). ONLINE
- Invited Speaker, FDP in Life Sciences, CHRIST (Deemed to be University). 23rd, May 2020.
- Paramanya, A., Ali, A. 2019. (Invited Speaker). Assessment of skin-whitening effect of cream prepared using cyanobacteria. 1st International Aromatic Plants and Cosmetics Symposium (AROPCOS). 3-6, Oct. 2019. Igdir, Turkey. (Best Presentation Award).
- Kumar, D., Ali, A. 2019. (Oral). Glycation induced structural alteration of Biomolecules and their reversal by some artificial and natural compounds. 5th International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP5) and The 5th International Symposium on Pharmaceutical and

Biomedical Sciences JOINT MEETING. 24-28, April 2019, Cappadocia – Turkey (Best Presentation Award).

- Ali, A., Paramanya, A. 2019. (Oral). Antidiabetic and antiglycating properties of *Spirulina platensis*. 5th International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP5) and The 5th International Symposium on Pharmaceutical and Biomedical Sciences JOINT MEETING. 24-28, April 2019, Cappadocia – Turkey
- Kumar, D., Ali, A. 2018. (Oral). Artificial Sweeteners and their Preventive Role in the Process of Glycation. International Health Sciences Conference (IHSC 2018). Dicle University, Diyarbakir, Turkey. 14-17, Nov. 2018.
- Kumar, D., Ali, A. 2018. (Invited speaker). Artificial sweeteners prevent the accumulation of advanced glycation end products (AGEs). 2nd International Conference, Advances in Agricultural, Biological and Applied Sciences for Sustainable Future (ABAS 2018), Subharti University, Meerut, U.P., India. 20-22, Oct. 2018. (Received second prize).
- Shah, R., Kumar, D., Ali, A. 2018. (Oral). Assessment of Antiglycating potential of *Nigella sativa* (Black Cumin seeds). 4th International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP4). 18th – 22nd, April 2018. Antalya, Turkey.
- Ali, A. 2018. (Resource Person). Prevention of Glycoxidative Damage of DNA and Proteins by Kalonji seeds (*Nigella sativa*) 2nd Unani Day Celebration & International Conference on Unani Medicine, Central Council for Research in Unani Medicine, Ministry of AYUSH, Government of India, New Delhi, India. 10th and 11th, Feb. 2018.
- Ali, A. 2017. (Invited Speaker). Acesulfame Potassium inhibits the formation of AGEs and glycation induced aggregation. National Conference on Protein Structure and Dynamics in Health and Agriculture. Department of Biosciences and Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia University, Jamia Nagar, New Delhi, India. 3rd and 4th, Nov. 2017.
- Ali, A. 2017. (Invited Speaker). Acesulfame potassium: An artificial sweetener with antiglycating potential. First Indo-Russian Meet and Second International Conference on Biotechnological Advancements in Free Radical Biology and Medicine. Organized by Department of Biosciences, Integral University, Lucknow, U. P., India. 23 – 25, Jan 2017.
- Ali, A. 2016. (Oral). Phenolic acids prevent the process of in vitro glycation of proteins. National Conference on Oriental medicine and its role in human health (OMIRRH 2016). Dept. of Zoology, Smt. C. H. M. College, Ulhasnagar, Thane, Maharashtra, India. 2 -3, Sep. 2016.
- Delivered Lectures on Research Misconduct" and "Biochemistry of Diabetes" at Shri Shivaji College of Arts, Commerce and Science, Akola, 11th and 12th, March 2016.
- Ali, A. 2016. (Invited speaker). Artificial sweeteners induced glycation of Proteins. International Conference on Health Implications of Biotechnology (ICHIB). Central University of South Bihar, Patna, Bihar, India. 12-14, Feb. 2016.

ACADEMIC QUALIFICATIONS

- **Ph.D.** (Life Sciences) – 2007, University of Mumbai, Mumbai,
 - Thesis entitled “Signaling mechanism in the regulation of nitrate assimilation in *Oryza sativa* (Rice)”
- **MSc.** (Biochemistry) -1998, Jamia Hamdard (Hamdard University), New Delhi
 - Qualified the **‘National Eligibility Test’ (NET)** conducted by **CSIR-UGC** (New Delhi, INDIA) in June 1998.