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RESEARCH AREA

Biochemistry, Biotechnology and Molecular Biology

RESEARCH INTEREST

- DNA and protein damage, Non-enzymatic Glycosylation (Glycation), Oxidative stress, Antiglycating properties of natural products, Phytochemistry
- Signal transduction, Metabolic regulation, *Spirulina platensis*

CURRENT POSITION

Assistant Professor in the University Department of Life Science, University of Mumbai, Mumbai, India from 01-09-2012

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.

PROFESSIONAL EXPERIENCE (TEACHING & RESEARCH)

01.09.2012 - till date

: Presently working as **Assistant Professor** in the University Department of Life Sciences, University of Mumbai, 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, University of Mumbai
08.02.2007-30.04.2007	: Worked as Lecturer in the Dept. of Biotechnology, Smt. C. H. M. College, Ulhasnagar, University of Mumbai
25.11.2005-07.02.2007	: Worked as Research-cum-Teaching Assistant in the Dept. of Life Sciences, University of Mumbai, 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

1. Title: Drug proving studies, mechanistic insight and development of novel delivery systems of UNIM-H and UNIM-R for effective treatment of arthritis
 - o Funding agency: Central Council Research in Unani Medicine (CCRUM), Ministry of AYUSH
2. Title: Study of glycation of proteins by sweeteners
 - o Funding Agency: Research Society for the study of Diabetes in India (RSSDI)

COMPLETED

1. Title: Antiglycating properties of *Nigella sativa* seed extracts
 - o Funding agency: University of Mumbai, Mumbai (2018-19)
2. Title: Studies on Non-enzymatic Glycosylation of DNA and Proteins by sugars and dicarbonyls
 - o Funding Agency: UGC, New Delhi (Start up grant)
3. Title: "*In vitro* study on the glycation of DNA by sweeteners"
 - o Funding agency: University of Mumbai, Mumbai (2015-16)
4. Title: *In vitro* study on non-enzymatic glycosylation of protein and DNA
 - o Funding Agency: University of Mumbai, Mumbai (2013-14)

STUDENTS GUIDED/ENROLLED

- Ph. D. students enrolled - 03 and Two Junior Research Fellows in CCRUM Project
- M. S. Pharm. Biotechnology (NIPER, HAJIPUR)
- Guided 45 students of MSc Part II Life Sciences for their Review of Literature and Project work
- Presently guiding six students of M. Sc. for their Review of Literature and Project work.

FELLOWSHIPS AND AWARDS

- **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 8th to 12th, 2019 at Izmir Biomedicine and Genome Center, Izmir, Turkey
- Received Grant from **DST-PURSE fund** of University of Mumbai for attending EMBO Workshop
- University Grants Commission, Govt. of India, **Project Associateship** for 3 years.

MEMBERSHIPS

- Life Member of Society of Biological Chemists (SBC, India)
- Life Member of Indian Science Congress Association (ISCA)
- Member of International Maillard Reaction Society (IMARS)
- Member of Asian Council of Science Editors (ACSE)
- 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)
- Member of Bioinformatics Society of India (INBIOS)
- Member of Science Advisory Board (www.scienceboard.net)

EDITORIAL BOARDS

- Review Editor (Cancer Epidemiology and Prevention), Frontiers in Oncology
<https://www.frontiersin.org/journals/oncology#editorial-board>
- 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>

- 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
http://www.academicmed.org/index.jsp?mod=sayfabilgi&sayfa_alias=Editorial%20Board

REVIEWER OF JOURNALS

- Annals of Phytomedicine, Arabian Journal for Science and Engineering, Biochemistry Journal, 3 Biotech (Springer Journal), Biological Research & Reviews, Chemosphere, Current Perspectives on Medicinal and Aromatic Plants (CUPMAP), Frontiers in Plant Science, Frontiers in Oncology, Indian Journal of Biochemistry and Biophysics (IJBB), Indian Journal of Biotechnology (IJBT), Indian Journal of Experimental Biology (IJEB), International Journal of Biological Macromolecules (IJBM), International Journal of Diabetes in Developing Countries (IJDDC), Journals of Scientific and Industrial Research (JSIR), Journal of Central Research Institute for Field Crops, Journal of Toxicology, Malaysian Journal of Nutrition, Nanotechnology Review, Plant Science Today, Saudi Journal of Biological Sciences, Scientific Reports, Science of the Total Environment (STOTEN), Water Science and Technology (WST)

PUBLICATIONS

1. 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. **Pharmacognisny Magazine**. 18:341-7.
2. 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>.
3. Tiwari, A., Chaskar, J., **Ali, A.**, Arivarasan, V. K., Chaskar, A. C. 2022. Role of Sensor Technology in Detection of the Breast Cancer. **BioNanoSci**.
<https://doi.org/10.1007/s12668-021-00921-7>
4. Ahmad, F., Siddiqui, S. A., Sundari, R. S., Ahmad, J., Shah, S. M. A., Khan, M. R., Tarigan, R. A. N., Nagdalian, A., Mehdizadeh, M., Moazzem, M. S., **Ali, A.**, Fidan, H., Kasulla, S., Malik, S. J., Blinov, A., Faziili, M. A., Kiptum, C. K., Ibrahim, S. 2022. Assessing Integrated Nitrogen and Planting Density on Growth, Yield Component and Financial Analysis of Maize Crops (*Zea Mays*). **Journal of Hygienic Engineering and Design**. **37:125-134**
5. Sundari, R. S., Arshad, A., Siddiqui, S. A., Khan, M. K., Heryadi, Y., Ahmad, F., Kusnandar, H. F., Tarigan, R. A. N., Nagdalian, A., Blinov, A., Mehdizadeh, M., Moazzem, M. S., **Ali, A.**, Kasulla, S., Malik, S. J., Kiptum, C. K., Ibrahim, S. 2022.

Industrialization Fed Labor Migration in the Countryside: Tasikmalaya's Transition from Agriculture to The Crispy Snacks Industry. **Journal of Hygienic Engineering and Design**. **37:135-143**

6. Poojari, P., Padgaonkar, A., Paramanya, A., **Ali, A.** 2022. Compendium of polycystic ovarian syndrome and its relevance in glycation and diabetes. **Journal of Experimental and Clinical Medicine**. 39 (1): 256-268. <https://doi.org/10.52142/omujecm.39.1.49>
7. Boubakeur, B., Khadem, H., Drabo, M. S., **Ali, A.**, Meddah, A. T. 2021. Probiotic properties and exopolysaccharides production of *Streptococcus thermophilus* CNRZ 447 and *Enterococcus durans* NCBI 53345. **Ukrainian Food Journal**. 10 (4): 853 – 872. <http://dx.doi.org/10.24263/2304-974X-2021-10-4-17>
8. Yasir, M., **Ali, A.**, Ahmad. I., Khan, N., Ashraf, M. Z. 2021. Effect of herbal formulation Sharbat Ahmad Shahi on serum BDNF level in mild to moderate cases of depressive disorder. **Journal of Complementary Medicine Research**. 12 (4), 265-270. <https://doi.org/10.5455/jcmr.2021.12.04.39>
9. Khan, J., Rudrapal, M., Bhat, E. A., **Ali, A.**, Alaidarous, M., Alshehri, B., Banwas, S., Ismail, R., Egbuna, C. 2021. Perspective Insights to Bio-Nanomaterials for the Treatment of Neurological Disorders. **Frontiers in Bioengineering Biotechnology**. 9:724158. doi: <https://doi.org/10.3389/fbioe.2021.724158>
10. Bhatkalkar, S. G., Kumar, D., **Ali, A.**, Sachar, S. 2021. Influence of surfactants on biomolecular conjugation of magnetic nanoparticles. **Journal of Biomolecular Structure and Dynamics**. <https://doi.org/10.1080/07391102.2021.1977701>
11. Rubab, U., Kumar, D., Farah, M. A., Al-Anazi, K. M., Ali, M. A., **Ali, A.** 2021. Inhibitory Roles of *Nigella sativa* seed extracts on in vitro glycation and aggregation. **Pharmacognosy Magazine**. 17(6): 220-224. <http://doi.org/10.4103/pm.pm.604.20>
12. Chougale, S., Kumar, D., Khan, A., Zehra, S., **Ali, A.** 2021. Treatment of Alzheimer's Disease by Natural Products. **Journal of Experimental and Clinical Medicine**, 38 (4), 634-644. <http://doi.org/10.52142/omujecm.38.4.42>
13. Zahra, K. F., Lefter, R., **Ali, A.**, Abdellah, E., Trus, C., Ciobica, A., Timofte, D. 2021. The Involvement of the Oxidative Stress Status in Cancer Pathology: A Double View on the Role of the Antioxidants", **Oxidative Medicine and Cellular Longevity**, vol. 2021, Article ID 9965916, 25 pages. <https://doi.org/10.1155/2021/9965916>
14. Padgaonkar, A., Paramanya, A., Poojari, P., **Ali, A.** 2021. Current insights on wastewater treatment and application of *Spirulina platensis* in improving the water quality. **Marine Science and Technology Bulletin**, 10(3):285-294. <https://doi.org/10.33714/masteb.972128>
15. **Ali, A.**, Shahu, R., Balyan, P., Kumari, S., Ghodmare, R., Jobby, R., Jha, P. 2021. Antioxidation and Antiglycation Properties of a Natural Sweetener: *Stevia rebaudiana*. **Sugar Tech**. <https://doi.org/10.1007/s12355-021-01023-0>
16. More, T. A., Shaikh, Z., **Ali, A.** 2021. Artificial Sweeteners and their Health Implications: A Review. **Bioscience Biotechnology Research Asia**. 18(2): 227-237. <http://dx.doi.org/10.13005/bbra/2910>
17. Kumar, D., Desa, D., Chougale, Bhatkalkar, S. G., Sachar, S., Kumar, C. S., **Ali, A.** 2021. Evaluation of the antiglycating potential of thymoquinone and its

interaction with BSA, **Journal of Biomolecular Structure and Dynamics**, <https://doi.org/10.1080/07391102.2021.1912642>

18. Mayekar, V., **Ali, A.**, Alim, H., Patel, N. 2021. A review: Antimicrobial activity of the medicinal spice plants to cure human disease. **Plant Science Today**. 8(3): 629–646.

<https://doi.org/10.14719/pst.2021.8.3.1152>

19. Khan, A. S., Anavkar, A., **Ali, A.**, Patel, N., Alim, H. 2021. A Review on Current Status of Riverine Pollution in India. **Bioscience Biotechnology Research Asia**. 18(1):9-22. <https://bit.ly/3tjwU0m>

20. Balyan, P., Shinde, S., **Ali, A.** 2021. Potential activities of nanoparticles synthesized from *Nigella sativa* L. and its phytoconstituents: An overview, **Journal of. Phytonanotechnology Pharmaceutical Sciences**. 1(2):1-9. <http://dx.doi.org/10.21276/jpps.2021.1.2.1>

21. Shaikh, Z., Sundarajan, P., Bhagtaney, L., Zehra, S., Zahra, F. K., Badra, B., Yigit, B. Y., Patel, N., Alim, H., Khan, J., **Ali, A.** 2021. Applicability of vitamins in the management of COVID-19: An overview. **Annals of Phytomedicine**. 10 Special Issue 1 (COVID-19): S65-S76. DOI: <http://dx.doi.org/10.21276/ap.covid19.2021.10.1.7>

22. Bhat, A. E., Khan, J., Sajjad, N., **Ali, A.**, Aldakeel, F. M., Mateen, A., Alqahtani, M. S., Rabbani, S. 2021. SARS-CoV-2: Insight in genome structure, pathogenesis and viral receptor binding analysis– An Updated Review. **International Immunopharmacology**, 107493. Advance online publication. Vol. 95 <https://doi.org/10.1016/j.intimp.2021.107493>

23. Saraf, A., Padave, O., Sharma, S., Jha, P., Jobby, R., **Ali, A.**, Sachar, S. 2021. Low-frequency ultrasound responsive release and enhanced antibacterial efficacy of sulfamethoxazole decked silver nanocomposite. **Polyhedron**. 195, 114945. <https://doi.org/10.1016/j.poly.2020.114945>

24. Jabborova D, Enakiev Y, Sulaymanov K, Kadirova D, **Ali A**, Annapurna K. 2021. Plant growth promoting bacteria *Bacillus subtilis* promote growth and physiological parameters of *Zingiber officinale* Roscoe. **Plant Science Today**. 8(1): 66-71. <https://doi.org/10.14719/pst.2021.8.1.997>

25. Kumar, D. Bhatkalkar, S. Sachar, S., **Ali, A.** 2021. Studies on the antiglycating potential of zinc oxide nanoparticle and its interaction with BSA. **Journal of Biomolecular Structure & Dynamics**. 39:18, 6918-6925. <https://doi.org/10.1080/07391102.2020.1803137>

26. **Ali, A.** 2020. Herbs that Heal: The Philanthropic behavior of Nature. **Annals of Phytomedicine**. 9 (1): 7 – 17. <http://dx.doi.org/10.21276/ap.2020.9.1.2>. (Invited Article).

27. Kasmi, H., Doukani, K., **Ali, A.**, Tabak, S., Bouhenni, H. 2020. Epidemiological Profile of *Helicobacter pylori* Infection in Patients with Digestive Symptoms in Algeria. **Journal of Epidemiology and Global Health**. 10(4); 293–297. <https://doi.org/10.2991/jegh.k.200527.001>

28. **Ali, A.** 2020. Nitrate assimilation pathway in higher plants: critical role in nitrogen signalling and utilization. **Plant Science Today**. 7(2): 182-192. <http://doi.org/10.14719/pst.2020.7.2.637>

29. Bhatkalkar, S. Kumar, D. **Ali, A.** Sachar, S. 2020. Influence of surfactants on the interaction of copper oxide nanoparticles with vital proteins. **Journal of Molecular Liquids**. 304: 1-10. <https://doi.org/10.1016/j.molliq.2020.112791>
30. Paramanya, A., Jain, Y., **Ali, A.** 2020. Obesity: its complications and medications. **Journal of Health Sciences of Kocaeli University**. 6(1): 1-9. [10.30934/kusbed.615706](https://doi.org/10.30934/kusbed.615706)
31. Paramanya, A., **Ali, A.** 2019. Role of Oxidative Stress in Biological Systems. **Middle East Journal of Science**, 5 (2), 155-162. <https://doi.org/10.23884/mejs.2019.5.2.07>
32. Jha P., Kumari S., Jobby, R., Desai, N., **Ali A.** 2019. Dietary phytonutrients in prevention of diabetes related complications. **Current Diabetes Review**. 16, 657-673. [10.2174/1573399815666190906151319](https://doi.org/10.2174/1573399815666190906151319)
33. Kumar, D., **Ali, A.** 2019. Antiglycation and Antiaggregation potential of Thymoquinine. **Natural Volatiles and Essential Oils**. 6 (1): 25-33
34. Shah, S. A. Suji, G., Bhor V. M., **Ali, A.**, Sivakami, S. 2019. Methyl Glyoxal binding to bovine liver Catalase results in loss of activity and Heme dislocation. **Trends in Peptide and Protein Sciences**. 4(e5);1-8. <https://doi.org/10.22037/tpps.v4i0.26261>
35. Qazi, F., Varshney, P., and **Ali, A.** 2018. Perspective of nitrate assimilation and of bioremediation in *Spirulina platensis* (a non-nitrogen fixing cyanobacterium): an overview. **Journal of Environmental Biology**. 35: 547-557. <http://doi.org/10.22438/jeb/39/5/MS-172>.
36. Ahire, K., Kumar, D., **Ali, A.** 2018. Differential glycation of Arginine and Lysine by Glucose and inhibition by Acesulfame potassium. **Journal of BioScience and Biotechnology**. 7 (1): 11-15
37. Jha, P., Momin, A. R., Kumar, D., **Ali, A.** 2018. Reversal of glycoxidative damage of DNA and protein by antioxidants. **Annals of Phytomedicine**. 7(1): 101-105. <http://dx.doi.org/10.21276/ap.2018.7.1.12>
38. Bhatkalkar, S. Kumar, D. **Ali, A.** Sachar, S. 2018. Surface Dynamics Associated with Zinc Oxide Nanoparticles and Biomolecules in Presence of Surfactants. **Journal of Molecular Liquids**. 268: 1-10. <https://doi.org/10.1016/j.molliq.2018.07.037>
39. Pandey, R., Kumar, D., **Ali, A.** 2018. *Nigella sativa* seed extracts prevent the glycation of protein and DNA. **Current Perspectives on Medicinal and Aromatic Plants (CUPMAP)**. 1: 1-7.
40. **Ali, A.**, More, T., Hoonjan, A. K., Sivakami, S. 2017. Antiglycating potential of Acesulfame potassium: An artificial sweetener. **Applied Physiology, Nutrition and Metabolism**. 42(10):1054-1063. <http://dx.doi.org/10.1139/apnm-2017-0119>
41. **Ali, A.**, Devrukhkar, J. 2016. In vitro study on glycation of plasma proteins with artificial sweeteners (sweeteners induced glycation). **Acta Biologica Szegediensis**. 60(2):65-70.
42. Banan, P., **Ali, A.** 2016. Preventive effect of Phenolic Acids on in vitro Glycation. **Annals of Phytomedicine**. 5(2):1-5. <http://dx.doi.org/10.21276/ap.2016.5.2.12>.

43. **Ali, A.**, Sharma, R. 2015. A comparative study on the role of Lysine and BSA in Glycation-induced damage to DNA. **Bioscience Bioengineering. Communication.** 1: 38-43
44. **Ali, A.**, Sharma, R., and Sivakami, S. 2014. Role of Natural Compounds in the Prevention of DNA and Proteins damage by Glycation. **Bionano Frontiers.** 7(12). 25-30
45. Qazi, F., Varshney, P., **Ali, A.**, Ahmad, A. 2013. Dissecting the role of Glycine Betaine in plants under abiotic stress. **Plant Stress.** 7(1): 8-18
46. **Ali, A.**, Sivakami, S., Raghuram, N. 2011. Effect of light, nitrate, and tungstate on the activity of nitrate reductase in Rice. **Research Dimension.** 1(3): 47-55
47. **Ali, A.**, Raghuram, N., Sivakami, S. 2010. Differential regulation of nitrate assimilatory enzyme by Methionine sulfoximine in rice. **Journal of Advances in Science and Technology.** 13(3): 97-101
48. **Ali, A.**, Jha, P., Singh, K. S., Raghuram, N. 2008. Spirulina nitrate-assimilating enzymes (NR, NiR, GS) have higher specific activities and are more stable than those of rice. **Physiology and Molecular Biology of Plants.** 14(3): 179-182. <https://doi.org/10.1007/s12298-008-0017-z>
49. **Ali, A.**, Sivakami, S., Raghuram, N. 2007. Effect of Nitrate, Nitrite, Ammonium, Glutamate, Glutamine and 2-oxoglutarate on the RNA Levels and Enzyme Activities of Nitrate Reductase and Nitrite Reductase in Rice. **Physiology and Molecular Biology of Plants.** 13(1): 17-25.
50. Jha, P., **Ali, A.**, Raghuram, N. 2007. Nitrate induction of nitrate reductase and its regulation by downstream N metabolites in *Spirulina platensis*. **Physiology and Molecular Biology of Plants.** 13(2): 163-167.
51. **Ali, A.**, Sivakami, S., Raghuram, N. 2007. Regulation of activity and transcript levels of NR in Rice (*Oryza sativa*): Roles of Protein Kinase and G-proteins. **Plant Science.** 172(2): 406-413. <https://doi.org/10.1016/j.plantsci.2006.10.003>

BOOK

1. Khatri, S., **Ali, A.** 2019. Prevention of Glycooxidation mediated DNA damage by Phenolic compounds. LAP Lambert Academic Publishing Mauritius.

BOOK CHAPTERS

1. Ali, A., Shaikh, N. 2022. Concept of Diabetes Mellitus and Antidiabetic Plant in the Unani System of Medicine. In: Antidiabetic Potential of Plants in the Era of Omics. Deepu Pandita, Anu Pandita and Chander Bhanu (Eds.) Apple academic Press. Pp. 101-124
2. Vartak, A., Sonawane, S., Alim, H., Patel, N., Hamrouni, L., Khan, J., **Ali, A.** 2022. Medicinal and Aromatic Plants in the Cosmetics Industry. In: Máthé, Á., Khan, I.A. (eds) Medicinal and Aromatic Plants of India Vol. 1. Medicinal and Aromatic Plants of the World, vol 8. Springer, Cham. https://doi.org/10.1007/978-3-030-98701-5_12
3. **Ali, A.**, Khan, J., Alshehri, B. 2022. Diabetes -- a metabolic disorder: Herbal medicines on rescue. In: Herbal Medicines. Maryam Sarwat, Hifzur Siddique

- (Eds.). Academic Press. Pp 223-237. <https://doi.org/10.1016/B978-0-323-90572-5.00013-5>
4. Poojari, P., Paramanya A., Singh, D., **Ali, A.** 2022. Polycystic ovarian syndrome: Causes and therapies by herbal medicine, In: Herbal Medicines. Maryam Sarwat, Hifzur Siddique (Eds.). Academic Press. Pp 435-451. <https://doi.org/10.1016/B978-0-323-90572-5.00028-7>.
 5. Anavkar A., Patel N., **Ali A.**, Rajan W., Alim H. 2022. Gut Microbes: Influencers of Human Brain. In: Microbiome-Gut-Brain Axis. Sayyed R.Z., Khan M. (Eds). Springer, Singapore. Pp 3-27. https://doi.org/10.1007/978-981-16-1626-6_1
 6. Chauhan, J., Chachad, S., Shaikh, Z., Khan, J., **Ali, A.** 2021. Nitrate in Plant Physiology. In: Nitrate Handbook: Environmental, Agricultural, and Health Effects. Christos Tsadilas (Ed.). CRC Press. Pp. 73-89. <https://doi.org/10.1201/9780429326806-6>
 7. 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>
 8. 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>
 9. 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>
 10. Paramanya A., Paima, 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
 11. Paramanya, A., Padgaonkar, A., **Ali, A.** 2021. Detection of Coronavirus (SARS-CoV-2) Using Antibodies. In book: Covid-19 Pandemic and Environmental Implications; Vishnu Sinha (Ed.). Red'shine Publications Pvt. Ltd. Chapter 18. Pp. 181-194
 12. Paramanya, A., Paima, 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>
 13. 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>

14. 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
15. 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.
16. 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
17. **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 Upananlawar (Eds.). NOVA Science Publishers, Hauppauge, USA. Pp. 465-488
18. 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
19. 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

- **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 MESMAP7, November 18-20, 2021, Izmir – Turkey. (Hybrid)
- **Subject Expert** for **Research Advisory Committee** for evaluation of PhD students of Dept. of Life Sciences, Ramnarain Ruia College, Mumbai 20th November 2021
- Member of **Scientific Committee** for International Congress on Biological and Health Sciences (ICBH), Online. February 26-28, 2021.
- Member of **Advisory Board**, Biodiversity Application and Research Center (BIYOMER), Igdir University, Turkey
- Member of **International Organizing Committee** for IHSC 2020 (4th International Health Sciences Conference, November 4-6, 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.

- Member of **International Organizing Committee** for MESMAP6, October 15-17, 2020, Izmir – Turkey.
- **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 **International Organizing Committee** for IHSC 2019 (International Health Sciences Conference, November 6-8, 2019, Diyarbakir, Turkey
- **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 MESMAP5 and 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** –Banasthali University, Integral University, University of Hyderabad

SEMINARS/WORKSHOPS ATTENDED

- Scientific committee member and Invited speaker, International Congress on Bee Sciences, 16-18 June 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)
- **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)
- **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 speaker** to deliver a lecture on “Anti-AGE properties of Acesulfame potassium and its interaction with BSA” during 3rd International Conference on “Global Initiative in Agricultural, Forestry and Applied Sciences For Food Security, Environmental Safety and Sustainable Development (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 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 JSPSAAE 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 '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 '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 18.06.2021.
- **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 on 12.06.2021
- **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 01.04.2021
- **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, 22-02.2021.
- **Resource Person** to deliver a lecture on 'Research Misconduct' FDP on Research Methodology by MGM School of Biomedical Sciences, MGMIHS, Navi Mumbai, India, 6th January 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, 16.12.2020.
- **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, 14.10.2020.
- **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. July, 29-30, 2020.
- **Invited Speaker**, FDP in Life Sciences, CHRIST (Deemed to be University). May 23rd, 2020.

- 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 2-weeks **Refresher Course** in Basic Science (Interdisciplinary) at UGC-HRDC, Jamia Millia Islamia, New Delhi. November 5th to November 19th, 2019.
- **Invited Speaker and Session Chair** for 1. International Aromatic Plants and Cosmetics Symposium-AROPCOS 2019. Oct. 3-6, 2019, Igdir – TURKEY
- **Invited Speaker and Session Chair** for 5th International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP5) and the 5th International Symposium on Pharmaceutical and Biomedical Sciences JOINT MEETING. April 24-28, 2019, Cappadocia – TURKEY
- 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.
- **Invited Speaker** for National Conference on Protein Structure and Dynamics in Health and Agriculture. Organized by Dept. of Biosciences and Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi. Nov. 3-4, 2017.
- Science Academics' sponsored Lecture workshop on “**OMICS: Basics and Applications**”. Organized by Indian Women Scientists' Association (IWSA). July 8th – 9th, 2017.
- Delivered Lectures on **Research Misconduct**” and “**Biochemistry of Diabetes**” at Shri Shivaji College of Arts, Commerce and Science, Akola, March 11th and 12th, 2016.
- **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.
- Attended two-days workshop on “**Applications in Bioinformatics**” organized by ACTREC, Mumbai, Jan 23rd and 24th, 2014
- Three weeks Refresher Course on “**Advances in Life Sciences**”. Academic Staff College, University of Mumbai, Mumbai. 7th- 26th October 2013.
- Attended two-day’s workshop on “**Research Methodology in Applied and Basic Sciences**” organized by UGC Academic Staff College, University of Mumbai, Mumbai. March 12 & 13, 2013.
- Delivered a Lecture on “Research Misconduct” in **Orientation Course** organized by Patna University, Patna, Bihar, 4th December 2011.
- Delivered a Lecture on “**Ecological Risk Assessment and Ecotoxicology**” in Refresher Course organized by Patna University, Patna, Bihar, 17th September 2011.
- Attended 4th Bihar Vigyan Congress and delivered a Lecture on “**Plagiarism in Science**”. 9-11th June, 2011. Patna, Bihar
- Attended 2-days workshop on “**Applications in Bioinformatics**” organized by ACTREC, Mumbai, Jan 15th and 16th, 2009.
- Attended 3-day Workshop on “**Bioinformatics: Basic Tools and Applications**” organized by NIRRH, ICMR, Mumbai. May 21-23, 2008.
- Member of **Technical Committee** for the National Conference on Environmental Technology: Biological Perspectives Issues and Challenges. Feb. 9-10, 2006, Dept. of Life Sciences, University of Mumbai, Mumbai, India.
- Six-Days Training Programme on **Modern Instrumentation Techniques in Biology** at Western Regional Instrumentation Centre, Mumbai, India. May 30th to June 4th, 2005.

PRESENTATIONS

- Paramany, 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 29-30th, 2022

- Kumar, D., **Ali, A.** 2022. (Oral). Potential role of Ferulic acid in Glycation of Serum Albumin. 8th International Marmara Sciences Congress, Kocaeli University. May 13-15, 2022. ONLINE
- Paramany, 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. May 10-12, 2022. ONLINE
- Paramany, A., **Ali, A.** 2022 (Oral). Analysis of antiglycation and antiaggregation properties of Phycocyanin. İstanbul International Modern Scientific Research Congress – III. İstanbul Gedik University, İstanbul, Turkey. May 6-8, 2022. ONLINE
- Paramany, 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. April 27-29, 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 November 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 (ACSE) on 20th November 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). Online. November 18-20, 2021, Izmir, Turkey. 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. October 18-20, 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.
- 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), February 26-28, 2021. (Honorable mention award for oral presentation). ONLINE

- Kumar, D., **Ali, A.** 2020. (Oral). Inhibition of glucose toxicity and aggregation by thymoquinone during diabetes. 4th International Health Sciences Conference 2020 (IHSC 2020). Dicle University, Diyarbakir, Turkey. November 5-6, 2020. ONLINE
- PRAINNA MALIK, **Ali, A.** 2020, (Oral). Prevention of Advanced Glycation End Products by the seed extracts of *Nigella sativa*. The 6th International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP6). October 15-17, 2020, Izmir, Turkey. ONLINE
- 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) June, 1-3, 2020. (E-conference). (Consolation Certificate for the Best Oral Presentation). ONLINE
- Paramanya, A., **Ali, A.** 2019. (Oral). Assessment of skin-whitening effect of cream prepared using cyanobacteria. 1st International Aromatic Plants and Cosmetics Symposium (AROPCOS). October 3-6, 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. April 24-28, 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. April 24-28, 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. November 14-17, 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. Oct. 20-22, 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). April 18th – 22nd, 2018. Antalya, Turkey.
- **Ali, A.** 2018. (Oral). 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. February 10th and 11th, 2018.

- **Ali, A.** 2017. (Oral). 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. November 3rd and 4th, 2017.
- **Ali, A.** 2017. (Oral). 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. January 23 – 25, 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. September 2 -3, 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. February 12-14, 2016.
- **Ali, A.,** Sharma, R., and Sivakami, S. 2014. (Oral). Role of Natural Compounds in the Prevention of DNA and Proteins damage by Glycation. National Seminar on “Biotechnology for sustainable growth and development”. Department of Biotechnology, CKT College, New Panvel, Mumbai, India. January 3-4, 2014.
- **Ali, A.,** Sharma, R., and Sivakami, S. 2013. Structural damage of DNA and Protein by carbonyls and damage reversal by vitamins and natural compounds. National Symposium on “Frontiers of Biophysics, Biotechnology & Bioinformatics” & 37th Annual Meeting of Indian Biophysical Society (IBS). Jointly organized by Department of Biophysics and Centre for Excellence in Basic Sciences, Univ. of Mumbai, Mumbai, India. January 13-16, 2013.
- Sharma, R. and **Ali, A.** 2012. DNA damage by Glycation of Lysine with Methylglyoxal. National Seminar “New Frontiers in Environmental Pollutants, Health & Application of Molecular Genetics”. Mahavir Cancer Sansthan & Research Centre, Patna, Bihar, India. January 21- 22, 2012.
- **Ali, A.,** Sivakami, S., and Raghuram, N. 2010. Differential regulation of nitrate assimilatory enzymes by methionine sulfoximine in Rice (**Oral**). National Conference on Biotechnology for All. School of Biotechnology, North Maharashtra Jalgaon University, Jalgaon, Maharashtra, India. December 29-30, 2010.
- **Ali, A.,** Sivakami, S., and Raghuram, N. 2010. Regulation of Nitrate Assimilation and AGPase in Rice by Carbon & Nitrogen Metabolites (**Oral**). 5th International

Nitrogen Conference. Indian Nitrogen Group and International Nitrogen Initiative. New Delhi, India. December 3 -7, 2010.

- **Ali, A.**, Raghuram, N. and Sivakami, S. 2006. Nitrate Assimilation in Rice: Induction and Regulation by Downstream Metabolites **(Oral)**. National Conference on Environmental Technology: Biologocal Perspectives Issues and Challenges. Dept. of Life Sciences, University of Mumbai, Mumbai, India. February 9-10, 2006.
- **Ali, A.**, Jha, P., Sandhu, K.S., and Raghuram, N. 2003. Nitrogen metabolism and protein content in rice and *Spirulina*. 2nd International Congress of Plant Physiology, Division of Plant Physiology, IARI, New Delhi, India. January 8-12, 2003.
- **Ali, A.**, Jha, P., and Raghuram, N. 2002. Nitrate reductase induction and regulation by downstream metabolites in rice and *Spirulina*. 71st Annual Meeting of Society of Biological Chemists (I), Punjab Agricultural University, Ludhiana, India. November 14-16, 2002.