

DR. AHMAD ALI

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RESEARCH AREA

Biochemistry and Molecular Biology

RESEARCH INTEREST

- Non-enzymatic Glycosylation (Glycation), DNA and protein damage, Oxidative stress, Antiglycating properties of natural products,
- 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: Study of glycation of proteins by sweeteners
Funding Agency: Research Society for the study of Diabetes in India (RSSDI)

COMPLETED

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

STUDENTS GUIDED

- Ph. D. students enrolled: 03
- M. S. PHARM BIOTECHNOLOGY (NIPER, HAJIPUR)
 - RAJEEV SHARMA - A comparative *in vitro* study on glycation of DNA and protein with various sugars (2012)
 - NAGESH KUMAR MEENA - Cloning, expression and purification of Macrophage Inhibitory Factor (MIF) from *Leishmania donovani* (2011)
- Guided 34 students of MSc Part II Life Sciences for their Review of Literature and Project work

- Presently guiding seven students of M. Sc. for their Review of Literature and Project work.

FELLOWSHIPS AND AWARDS

- **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
- University Grants Commission, Govt. of India, Project Associateship for 3 years.
- AFMI (American Federation of Muslims of Indian Origin) Research Fellowship for 15 months.
- First beneficiary of BANEE Scholarship Scheme by Bihar Anjuman for 1 year. (http://www.banee.org/BANEE_Beneficiaries.htm#List)
- Several Scholarships from University of Mumbai.

MEMBERSHIPS

- Life Member of Society of Biological Chemists (SBC, India)
- 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)
- Member of Bioinformatics Society of India (INBIOS)
- Member of Science Advisory Board (www.scienceboard.net)

EDITORIAL BOARDS

- 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>)
- Review Editor (Cancer Epidemiology and Prevention), Frontiers in Oncology (<https://www.frontiersin.org/journals/oncology#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, 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), 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, Malaysian Journal of Nutrition, Nanotechnology Review, Plant Science Today, Saudi Journal of Biological Sciences.

ADMINISTRATIVE RESPONSIBILITIES

- Member of **International Organizing Committee** for IHSC 2020 (4th International Health Sciences Conference, November 4-6, 2020, Diyarbakir, Turkey)
- Member of **National Advisory Committee** for "2nd International Conference on Health Implications of Biotechnology". March 25th – 27th 2020. Central University of South Bihar, Gaya, Bihar.
- **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 Organising Committee, One-day State Level Seminar on Higher Education and Research: Industrial Opportunities, Organised 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 Organising Committee, National Symposium on Facets of Life Sciences, Organised 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

- 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.
- **Chairman** – M. Sc. Life Sciences Part I and II (Semester I to IV) Examinations (University of Mumbai) for Academic Year 2018-19
- **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 II (Semester III and IV) Examinations (University of Mumbai) for 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** – University of Hyderabad, Integral University

SEMINARS/WORKSHOPS ATTENDED

- **Invited speaker**, Invited Lecture Series on Biological Science, ILSBS:2020(3) jointly organised by Government P. G. College Bazpur U. S. Nagar Uttarakhand, S. S. College Shahjahanpur U.P. and Society for Research in Biological Science. August, 24-28, 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 a Lecture on **"Biochemistry of Diabetes"** at Shri Shivaji College of Arts, Commerce and Science, Akola, March 12th, 2016.
- Delivered a Lecture on **"Research Misconduct"** at Shri Shivaji College of Arts, Commerce and Science, Akola, March 11th, 2016.
- **"International Conference on Health Implications of Biotechnology"**. Feb 12th-14th 2016. Organized by Central University of South Bihar, Patna, Bihar.
- **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.
- Attended Education day in the **"Targeted Proteomics Workshop and International Symposium"**. IIT Bombay, Mumbai. December 12th, 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.
- Attended one-day International Conference on **"Biomarker for Radiation Exposure & Cancer"**. Organized by the Department of Biotechnology, University of Mumbai. August 1st, 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 National Seminar on **"Advances in Bioimaging"** at Department of Biotechnology, University of Mumbai. Feb 28th, 2014.
- Attended two-days workshop on **"Applications in Bioinformatics"** organized by ACTREC, Mumbai, Jan 23rd and 24th, 2014

- Participated in Two-days National Seminar on “**Biotechnology for sustainable growth and development**” organized by Department of Biotechnology, CKT College, New Panvel, Mumbai. Jan 3rd and 4th, 2014.
- Attended one-day seminar on “**Macromolecular Chemistry and Translational Research**”. SBC (I) Mumbai Chapter meet at ACTREC, Mumbai on Nov. 8th, 2013
- 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 and presented paper in **National Conference on Biotechnology for All**. 29th-30th December. 2010. School of Biotechnology, North Maharashtra Jalgaon University, Jalgaon, Maharashtra
- Attended and presented paper in **5th International Nitrogen Conference**. 3rd - 7th December. 2010. Indian Nitrogen Group and International Nitrogen Initiative. New Delhi,
- 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.
- Attended National Conference on “**Recent Advances in Drug Discovery Research**”. March 15-16, 2008. Department of Chemistry, Poona College of Arts, Science & Commerce, Pune.
- 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

- Praisna 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
- Kumar, D., **Ali, A.** 2020. (Oral). Inhibition of advanced Glycation products by natural and artificial compounds. Emerging Trends in Bioscience and Technology

(ETBT- 2020). June, 1-3, 2020. (E-conference). (Consolation Certificate for the Best Oral Presentation).

- 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)**.

- Jha, P., Jobby, R., Kumari, S., Ghodmare, R., Desai, N., **Ali, A.** 2019. (Oral). Antioxidant, Antiglycation and Antidiabetic Potential of A Natural Sweetener, *Stevia rebaudiana*. 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

- **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. (Oral). 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: Biological Perspectives Issues and Challenges. Dept. of Life Sciences, University of Mumbai, Mumbai, India. February 9-10, 2006.
- Raghuram, N., **Ali, A.,** Jha, P., Sarkar, C. and Sandhu, K.S. 2003. Exploring nitrate-responsive gene expression in plant metabolic regulation (**Oral**). 26th Conference of the Indian Botanical Society and National Symposium On Plant

Biology and Biodiversity in Changing Environment, Jamia Hamdard, New Delhi, India. December 29-31, 2003.

- **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.

PUBLICATIONS

1. Kumar, D. Bhatkalkar, S. Sachar, S. **Ali, A.** 2020. Studies on the antiglycating potential of zinc oxide nanoparticle and its interaction with BSA. **Journal of Biomolecular Structure & Dynamics**. <https://doi.org/10.1080/07391102.2020.180313>
2. **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).
3. 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**. (In press). <https://doi.org/10.2991/jegh.k.200527.001>.
4. **Ali, A.** 2020. Nitrate assimilation pathway in higher plants: critical role in nitrogen signalling and utilization. [Plant Science Today](http://dx.doi.org/10.21276/ap.2020.9.1.2). 7(2): 182-192
5. 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.
6. Paramanya, A., Jain, Y., **Ali, A.** 2020. Obesity: its complications and medications. [Journal of Health Sciences of Kocaeli University](http://dx.doi.org/10.21276/ap.2020.9.1.2). 6(1): 1-9.
7. Paramanya, A., **Ali, A.** 2019. Role of Oxidative Stress in Biological Systems. Middle East Journal of Science, 5 (2), 155-162. DOI: [10.23884/mejs.2019.5.2.07](https://doi.org/10.23884/mejs.2019.5.2.07)
8. Jha P., Kumari S., Jobby, R., Desai, N., **Ali A.** 2019. Dietary phytonutrients in prevention of diabetes related complications. Current Diabetes Review. 2019 Sep 6. DOI: [10.2174/1573399815666190906151319](https://doi.org/10.2174/1573399815666190906151319)
9. Kumar, D., **Ali, A.** 2019. Antiglycation and Antiaggregation potential of Thymoquinone. [Natural Volatiles and Essential Oils](http://dx.doi.org/10.21276/ap.2020.9.1.2). 6 (1): 25-33
10. 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](http://dx.doi.org/10.21276/ap.2020.9.1.2). 4:e5
11. 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>.

12. 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
13. 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.
14. 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.
15. 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.
16. **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>.
17. **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.
18. Banan, P., **Ali, A.** 2016. Preventive effect of Phenolic Acids on in vitro Glycation. **Annals of Phytomedicine**. 5(2):1-5
19. **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
20. **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
21. 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
22. **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
23. **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
24. **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. (doi:10.1007/s12298-008-0017-z)
25. **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.
26. 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.

27. **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 (doi: 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. 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

2. 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.

3. 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, Dr. Munir Ozturk and Dr. Khalid Rehman Hakeem (Eds.). Springer Nature Switzerland. Pp. 661-680.

4. 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.

5. 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

6. **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

7. 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.

8. 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.