



# DR. AHMAD ALI

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## EMPLOYMENT HISTORY AND EXPERIENCE

- Presently working as **Assistant Professor** in the University Department of Life Sciences, University of Mumbai, Mumbai since September 2012.
- Worked as **Lecturer** in the Department of Biotechnology, National Institute of Pharmaceutical Education and Research (**NIPER**), Hajipur, Bihar from June 2010 to August 2012.
- Worked as **Lecturer** in the Department of Biotechnology, Thakur College of Science & Commerce (University of Mumbai) from June 2007 to June 2010.
- Worked as **Lecturer** in the Department of Biotechnology, Smt. C. H. M. College, Ulhasnagar, (University of Mumbai) from February to April 2007.
- Worked as **Research-cum-Teaching Assistant** in the Department of Life Sciences, University of Mumbai, Mumbai, India from November 2005 to February 2007.
- Worked as **Project Associate** for three years on a University Grants Commission, Government of India major research project titled "**Molecular Biology of Nitrogen Metabolism in Crop Plants**" under Dr. N. Raghuram, Dept. of Life Sciences, University of Mumbai, Mumbai from September 1999 to July 2002.
- Worked on a project titled "**Nitrogen Metabolism in *Spirulina platensis***" sponsored by Bharat Serums and Vaccines Ltd., Mumbai, India.

## RESEARCH ACTIVITY

### **Research Area**

Biochemistry and Molecular Biology

### **Research Interest**

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

### **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: Studies on Non-enzymatic Glycosylation of DNA and Proteins by sugars and dicarbonyls

Funding Agency: UGC, New Delhi (Start up grant)

2. Title: "*In vitro* study on the glycation of DNA by sweeteners"

Funding agency: University of Mumbai, Mumbai (2015-16)

3. Title: *In vitro* study on non-enzymatic glycosylation of protein and DNA

Funding Agency: University of Mumbai, Mumbai (2013-14)

### **Research Students**

- Ph. D. student (Enrolled) : 03
- Guided two M. S. Pharm. Biotechnology project students at NIPER
- 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**

- 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.
- Teaching-cum-Research Assistantship of University of Mumbai from Nov. 2005 to Jan 2007.
- 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](http://www.scienceboard.net))

## **EDITORIAL BOARDS**

- Coordinating Editor, Annals of Phytomedicine (<http://ukaazpublications.com/publications/index.php>)
- International Journal of Health Services Research and Policy (<http://dergipark.gov.tr/ijhsrp/board>)
- Kocaeli Üniversitesi Sağlık Bilimleri Dergisi <http://dergipark.gov.tr/kusbed/board>

## **REVIEWER OF JOURNALS**

Annals of Phytomedicine, 3 Biotech (Springer Journal), Biological Research & Reviews, Bioscience and Bioengineering Communications, Current Perspectives on Medicinal and Aromatic Plants (CUPMAP), Frontiers in Plant Science, 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

## **ADMINISTRATIVE RESPONSIBILITIES**

- 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
- Member of **National Advisory Board**, 5<sup>th</sup> 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. 4<sup>th</sup> and 5<sup>th</sup>, 2019.
- **'Judge'** for University Level Final Round of 13<sup>th</sup> Inter-Collegiate/Institute/Department **Avishkar Research Convention: 2018-19**.
- **Scientific Program Committee Member**, 2<sup>nd</sup> International Online Conference on Biological Sciences (IOCBS 2018), July 22<sup>nd</sup>, 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 (2017-2019).
- **Coordinator**, 123<sup>rd</sup> Orientation Programme, UGC-HRDC, University of Mumbai, May 28<sup>th</sup> – June 23<sup>rd</sup> 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 22<sup>nd</sup>-23<sup>rd</sup>, 2017. Organized by Department of Life Sciences, University of Mumbai.
- Member of **Organizing Committee** for “8<sup>th</sup> Indian Youth Science Congress”. February 16<sup>th</sup> – 18<sup>th</sup>, 2017. Co-organized by University of Mumbai and MSSRF.
- Member of **National Advisory Committee** for “International Conference on Health Implications of Biotechnology”. Feb 12<sup>th</sup> - 14<sup>th</sup> 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.: - 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. 24<sup>th</sup>, 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 29<sup>th</sup> and 30<sup>th</sup> 2013.
- Worked as Member, **Board of Examiner**, M. Sc. Biotechnology (2<sup>nd</sup> Semester), Central University of Bihar, 20<sup>th</sup> and 21<sup>st</sup> May, 2013.
- **External Examiner** – A. M. U., Amity University, Banasthali University, D. Y. Patil University, Integral University, MGM Medical College, Shivaji College (Akola), NMIMS.

### **SEMINARS/WORKSHOPS ATTENDED**

- **Invited Speaker** for 2<sup>nd</sup> 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 4<sup>th</sup> International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP4). April 18<sup>th</sup> – 22<sup>nd</sup>, 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 15<sup>th</sup> to December 6<sup>th</sup>, 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 8<sup>th</sup> – 9<sup>th</sup>, 2017.
- Delivered a Lecture on "**Biochemistry of Diabetes**" at Shri Shivaji College of Arts, Commerce and Science, Akola, March 12<sup>th</sup>, 2016.
- Delivered a Lecture on "**Research Misconduct**" at Shri Shivaji College of Arts, Commerce and Science, Akola, March 11<sup>th</sup>, 2016.
- "**International Conference on Health Implications of Biotechnology**". Feb 12<sup>th</sup>-14<sup>th</sup> 2016. Organized by Central University of South Bihar, Patna, Bihar.
- **Systematic Review and Meta-analysis**. Sept. 19<sup>th</sup>-21<sup>st</sup> 2016. NIRRH, Mumbai.
- Participated in 2-weeks "**Science Academies' Refresher Course on Developmental Biology**". Organized by NIRRH, Mumbai and Sophia College for Women, Mumbai. 16<sup>th</sup>-28<sup>th</sup> November, 2015.
- Attended Education day in the "**Targeted Proteomics Workshop and International Symposium**". IIT Bombay, Mumbai. December 12<sup>th</sup>, 2015.
- Participated in 2-days workshop on "**Biostatistics in Teaching and Research**". Ruparel College, Mumbai. 4<sup>th</sup> and 5<sup>th</sup> September, 2015.
- Attended one-day **SBC (I) Mumbai Chapter meet**. NIRRH, Mumbai. August 22<sup>nd</sup>, 2015.
- Attended one-day International Conference on "**Biomarker for Radiation Exposure & Cancer**". Organized by the Department of Biotechnology, University of Mumbai. August 1<sup>st</sup>, 2015.
- Participated in **102<sup>nd</sup> Indian Science Congress** at University of Mumbai. Jan 3<sup>rd</sup>-7<sup>th</sup>, 2015.
- Attended 4-weeks **Orientation Programme** at UGC-Academic Staff College, Jamia Millia Islamia, New Delhi. August 5<sup>th</sup> to September 3<sup>rd</sup>, 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 10<sup>th</sup>-15<sup>th</sup>, 2014.
- Attended National Seminar on "**Advances in Bioimaging**" at Department of Biotechnology, University of Mumbai. Feb 28<sup>th</sup>, 2014.
- Attended two-days workshop on "**Applications in Bioinformatics**" organized by ACTREC, Mumbai, Jan 23<sup>rd</sup> and 24<sup>th</sup>, 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 3<sup>rd</sup> and 4<sup>th</sup>, 2014.
- Attended one-day seminar on "**Macromolecular Chemistry and Translational Research**". SBC (I) Mumbai Chapter meet at ACTREC, Mumbai on Nov. 8<sup>th</sup>, 2013
- Three weeks Refresher Course on "**Advances in Life Sciences**". Academic Staff College, University of Mumbai, Mumbai. 7<sup>th</sup>- 26<sup>th</sup> 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, 4<sup>th</sup> December 2011.
- Delivered a Lecture on **"Ecological Risk Assessment and Ecotoxicology"** in Refresher Course organized by Patna University, Patna, Bihar, 17<sup>th</sup> September 2011.
- Attended 4<sup>th</sup> Bihar Vigyan Congress and delivered a Lecture on **"Plagiarism in Science"**. 9-11<sup>th</sup> June, 2011. Patna, Bihar
- Attended and presented paper in **National Conference on Biotechnology for All**. 29<sup>th</sup>-30<sup>th</sup> December. 2010. School of Biotechnology, North Maharashtra Jalgaon University, Jalgaon, Maharashtra
- Attended and presented paper in **5<sup>th</sup> International Nitrogen Conference**. 3<sup>rd</sup> - 7<sup>th</sup> December. 2010. Indian Nitrogen Group and International Nitrogen Initiative. New Delhi,
- Attended 2-days workshop on **"Applications in Bioinformatics"** organized by ACTREC, Mumbai, Jan 15<sup>th</sup> and 16<sup>th</sup>, 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 30<sup>th</sup> to June 4<sup>th</sup>, 2005.

## **PRESENTATIONS**

- 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). 2<sup>nd</sup> 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). 4<sup>th</sup> International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP4). April 18<sup>th</sup> – 22<sup>nd</sup>, 2018. Antalya, Turkey.
- **Ali, A.** 2018. (Oral). Prevention of Glycoxidative Damage of DNA and Proteins by Kalonji seeds (*Nigella sativa*) 2<sup>nd</sup> 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, 10<sup>th</sup> and 11<sup>th</sup>, 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, 3<sup>rd</sup> and 4<sup>th</sup>, 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.
- Hoonjan, A. K., Momin, A. R., **Ali, A.** 2016. Reversal of glycation mediated DNA damage by Antioxidants. 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" & 37<sup>th</sup> 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**). 5<sup>th</sup> 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.

- Sarkar, C., **Ali, A.**, Raghuram, N., Sivakami, S. 2006. Role of Protein Kinases and Phosphoinositide Signaling Pathways in the Regulation of NR in Rice. 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*. 2<sup>nd</sup> 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*. 71<sup>st</sup> Annual Meeting of Society of Biological Chemists (I), Punjab Agricultural University, Ludhiana, India. November 14-16, 2002.

## **PUBLICATIONS**

1. 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>
2. 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
3. Jha P, Momin AR, Kumar D, **Ali A.** 2018. Reversal of glycoxidative damage of DNA and protein by antioxidants. **Annals of Phytomedicine**. 7(1): 101-105.
4. Bhatkalkar, S. Kumar, D. **Ali, A.** 2018. Sachar, S. 2018. Surface Dynamics Associated with Zinc Oxide Nanoparticles and Biomolecules in Presence of Surfactants. **Journal of Molecular Liquids**. 268: 1-10.
5. 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.
6. **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>.
7. **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.
8. Banan, P., **Ali, A.** 2016. Preventive effect of Phenolic Acids on in vitro Glycation. **Annals of Phytomedicine**. 5(2):1-5
9. **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



10. **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
11. 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
12. **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
13. **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
14. **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)
15. **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.
16. 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.
17. **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 CHAPTERS**

1. **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. Accepted.
2. 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. Accepted.
3. 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 Science + Business Media, New York. Accepted.
4. 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.
5. 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.

#### **COMMUNICATED**

- Rubab, U., Kumar, D., Ali, A. Assessment of antiglycating and anti-aggregation potentials of *Nigella sativa*. Saudi Journal of Biological Sciences.
- Shah, S. A. Suji, G., **Ali, A.**, Bhor V. M., Sivakami, S. Methyl Glyoxal binding to bovine liver Catalase results in loss of activity and Heme dislocation. Submitted to The Protein Journal.

### **ACADEMIC QUALIFICATIONS**

- 2007 - **Ph. D. (Life Science)**  
University of Mumbai, Mumbai, India  
Supervisor – Dr. S. Sivakami
- 1998 - **Master of Science (Biochemistry)**  
First Class, Jamia Hamdard, New Delhi, India
- 1996 - **Bachelor of Science (Hons.) Biochemistry**  
First Class, Aligarh Muslim University, Aligarh, U.P., India

### **OTHER QUALIFICATIONS**

- Qualified the **'National Eligibility Test' (NET)** for conducted by **CSIR-UGC** (New Delhi, INDIA) in June 1998.