

DR. AHMAD ALI

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ACADEMIC QUALIFICATIONS

Ph. D. (2007)	University Department of Life Sciences, University of Mumbai, Mumbai, India	Life Sciences Guide – Dr. S. Sivakami Title - Signaling mechanism in the regulation of Nitrate Assimilation in <i>Oryza sativa</i> (Rice)
M. Sc. (1998)	Jamia Hamdard, New Delhi	Biochemistry
B. Sc. (Hons.; 1996)	Aligarh Muslim University, Aligarh, U. P.	Biochemistry

OTHER QUALIFICATIONS

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

POSITIONS HELD

Assistant Professor	University Department of Life Sciences, University of Mumbai	September 2012 - till date
Lecturer	Department of Biotechnology, National Institute of Pharmaceutical Education and Research (NIPER), Hajipur, Bihar	June 2010 - August 2012
Lecturer	Department of Biotechnology, Thakur College of Sciences and Commerce, Kandivli, Mumbai	June 2007 - June 2010
Lecturer	Department of Biotechnology, Smt. C. H. M. College, Ulhasnagar, Thane	February 2007 - April 2007
Teaching-cum-Research Assistant	University Department of Life Sciences, University of Mumbai, Mumbai	November 2005 - Jan 2007

RESEARCH ACTIVITY

RESEARCH PROJECTS

1. Title: Studies on Non-enzymatic Glycosylation of DNA and Proteins by sugars and dicarbonyls

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

Amount: Rs. 6,00,000

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

Funding Agency: University of Mumbai, Mumbai

Amount: Rs. 20,000

STUDENTS GUIDED

M. S. PHARM BIOTECHNOLOGY (NIPER, HAJIPUR)

1. RAJEEV SHARMA - A comparative in vitro study on glycation of DNA and protein with various sugars (2012)

2. NAGESH KUMAR MEENA - Cloning, expression and purification of Macrophage Inhibitory Factor (MIF) from *Leishmania donovani* (2011)

MEMBERSHIPS OF PROFESSIONAL SOCIETIES

1. Life Member of Society of Biological Chemists (SBC, India)
2. Member of European Federation of Biotechnology (EFB)
3. Member of Bioinformatics Society of India (INBIOS)
4. Member of Science Advisory Board
5. Member, Editorial Board, International Journal of Plant Physiology & Biochemistry (JPPB)
6. Member of the Editorial Board "The Pharma Research"

PUBLICATIONS

1. 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
2. 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

3. Ali, A., Sivakami, S., Raghuram, N. 2011. Effect of light, nitrate, and tungstate on the activity of nitrate reductase in Rice. *Res. Dim.* 1(3): 47-55
4. Ali, A., Raghuram, N., Sivakami, S. 2010. Differential regulation of nitrate assimilatory enzyme by Methionine sulfoximine in rice. *J. Adv. Sci. Tech.* 1(2): 97-101
5. 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. *Physiol. Mol. Biol. Plants.* 14(3): 179-182.
6. 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. *Physiol. Mol. Biol. Plants.* 13(1): 17-25.
7. Jha, P., Ali, A., Raghuram, N. 2007. Nitrate induction of nitrate reductase and its regulation by downstream N metabolites in *Spirulina platensis*. *Physiol. Mol. Biol. Plants.* 13(2): 163-167.
8. 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 Sci.* 172(2): 406-413.

BOOK CHAPTER

1. 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

SEMINARS/WORKSHOPS ATTENDED/LECTURES DELIVERED

1. National Seminar on "Biotechnology for sustainable growth and development" organized by Department of Biotechnology, CKT College, New Panvel, Mumbai. Jan 3-4, 2014.
2. Seminar on "Macromolecular Chemistry and Translational Research". SBC (I) Mumbai Chapter meet at ACTREC, Mumbai on Nov. 8th, 2013.

3. Refresher Course on "Advances in Life Sciences". Academic Staff College, University of Mumbai, Mumbai. 7th- 26th October 2013.
4. Resource Person for Collaborative Undergraduate Biology Education (CUBE) workshop. Organized by Homi Bhabha Center for Science Education (HBCSE), TIFR, Mumbai. June 29- 30, 2013.
5. Workshop on "Research Methodology in Applied and Basic Sciences" organized by UGC Academic Staff College, University of Mumbai, Mumbai. March, 12-13, 2013.
6. Delivered a Lecture on "Research Misconduct" in Orientation Course organized by Patna University, Patna, Bihar, December 4th, 2011.
7. Delivered a Lecture on "Ecological Risk Assessment and Ecotoxicology" in Refresher Course organized by Patna University, Patna, Bihar, September 17, 2011.
8. 4th Bihar Vigyan Congress at Patna, Bihar and delivered a Lecture on "Plagiarism in Science". June 9-11, 2011.
9. National Conference on Biotechnology for All. School of Biotechnology, North Maharashtra Jalgaon University, Jalgaon, Maharashtra. December 29-30. 2010.
10. 5th International Nitrogen Conference. Indian Nitrogen Group and International Nitrogen Initiative. New Delhi, December 3 -7. 2010.
11. Workshop on "Applications in Bioinformatics" organized by ACTREC, Mumbai, Jan 15-16, 2009.
12. Workshop on "Bioinformatics: Basic Tools and Applications" organized by NIRRH, ICMR, Mumbai. May 21-23, 2008
13. National Conference on "Recent Advances in Drug Discovery Research". Department of Chemistry, Poona College of Arts, Science & Commerce, Pune March 15-16, 2008.
14. Member of Technical Committee for the National Conference on Environmental Technology: Biological Perspectives Issues and Challenges, Dept. of Life Sciences, University of Mumbai, Mumbai, India, Feb. 9-10, 2006.

15. Training Program on Modern Instrumentation Techniques in Biology at Western Regional Instrumentation Centre, Mumbai, India. May 30th to June 4th, 2005.
16. Seminar on Advances in Molecular Biology, Modern College, Mumbai. March 30th, 2003.

CONTRIBUTIONS IN SYMPOSIA/CONFERENCES

1. 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". Jan 3rd and 4th, 2014. Organized by Department of Biotechnology, CKT College, New Panvel, Mumbai, India.
2. 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). Jan 13-16th, 2013. Jointly organized by Department of Biophysics and Centre for Excellence in Basic Sciences, Univ. of Mumbai, India.
3. 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", 21st & 22nd January 2012. Mahavir Cancer Sansthan & Research Centre, Patna, Bihar, India.
4. 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. 29th-30th December. School of Biotechnology, North Maharashtra Jalgaon University, Jalgaon, Maharashtra, India.
5. 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. 3rd -7th December. Indian Nitrogen Group and International Nitrogen Initiative. New Delhi, India.
6. 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. Feb. 9-10, Dept. of Life Sciences, University of Mumbai, Mumbai, India.

7. 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: Biologocal Perspectives Issues and Challenges. Feb. 9-10, Dept. of Life Sciences, University of Mumbai, Mumbai, India.
8. 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, Dec. 29-31, Jamia Hamdard, New Delhi, India.
9. Ali, A., Jha, P., Sandhu, K.S., and Raghuram, N. 2003. Nitrogen metabolism and protein content in rice and Spirulina. Jan 8-12. 2nd International Congress of Plant Physiology, Division of Plant Physiology, IARI, New Delhi, India.
10. 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), Nov. 14-16, Punjab Agricultural University, Ludhiana, India.
11. Jha, P., Ali, A., Sandhu, K.S., and Raghuram, N. 2002. High on metabolism, High on Protein: A comparative analysis of N metabolising enzymes in rice and Spirulina. 71st Meeting of the Society of Biological Chemists (India), Nov. 14-16, Punjab Agricultural University, Ludhiana.
12. Jha, P., Ali, A., Sarkar, C., and Raghuram, N. 2001. Comparative analysis of nitrate induced NR activity in Rice and Spirulina platensis". 19th National Symposium on Recent Trends in Life Sciences and Biotechnology, Nov. 20-22, Dept. of Life Sciences, Univ. of Mumbai, Mumbai.