

Arshid Hussain Ganie

Molecular Ecology Lab., Department of Botany, Hamdard University, India

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Educational background:

Molecular ecology lab. Hamdard University, New Delhi, India

Doctorate (Ph. D.) (2010 –2016),

Thesis advisor: Prof. Muhammad Iqbal

Thesis title: Studies on Metabolomic Profile of Maize Genotypes with Contrasting Nitrogen and Phosphorus Use Efficiency

Department of Botany, Hamdard University, New Delhi, India

M.Sc. in Botany, (2008-2010).

Dissertation supervisor: Dr. Altaf Ahmad

Dissertation title: Analysis of Genotypic variation in *Catharanthus roseus*

University of Kashmir, Srinagar, India

B.Sc. in Chemistry and Biology (2005 to 2007)

IGNOU, New Delhi, India

Post graduation Diploma in Disaster Management (PGDDM) (2014 to 2015)

National Environmental Science Academy (NESA), New Delhi, India

Life Member NESA with Membership No. 109

Higher Education Department, J&K, India

Former Substitute Teacher as Assistant Professor Temporary (2016 to 2017)

School Education Department, J&K, India

Former Lecturer in SED (2017 to 2024)

Higher Education Department, J&K, India

Assistant Professor in Department of Botany, SHMM, GDC, Anantnag (2024 to till date)

Research Information

Publication 12

Citation 328

Reads 5340

H Index 8

I Index 7

Publications:

1. Metabolite profiling of low-P tolerant and low-P sensitive maize genotypes under phosphorus starvation and restoration conditions (2015). **Ganie AH**, Ahmad A, Pandey R, Aref IM, Yousuf PY, Ahmad S, Iqbal M. **PLOS One**,

2. Salt stress-induced modulations in the shoot proteome of *Brassica juncea* genotypes (2015). Yousuf PY, Ahmad A, **Ganie AH**, Iqbal M, *Environ Sci Pollut Res* DOI 10.1007/s11356-015-5441-3.
3. Salt-stress-responsive chloroplast proteins in *Brassica juncea* genotypes with contrasting salt tolerance and their quantitative PCR analysis (2015). Yousuf PY, Ahmad A, Aref IM, Ozturk M, Hemant, **Ganie AH**, Iqbal M, *Protoplasma*, DOI 10.1007/s00709-015-0917-z.
4. Nitrogen-regulated changes in amino acid profile of maize genotypes having contrasting response to nitrogen deficit (2016), **Arshid Hussain Ganie**¹, Altaf Ahmad², Peerzada Yasir Yousuf¹, Renu Pandey³, Sayeed Ahmad⁴, Ibrahim M Aref⁵ and Muhammad Iqbal^{1*}, *Protoplasma* 254 (6) 2143-2154.
5. Quantification of phenolic acids and antioxidant potential of different cultivars of *Zea mays* L. under varying regimes of nitrogen fertilization (2015), **Ganie AH**, Ahmad A, Pandey R, Yousuf PY, Iqbal M, *Journal of Environmental Biology*, in press.
6. Antioxidant Response and proteomic modulations in Indian mustard grown under salt stress. Peerzada Yasir Yousuf, Altaf Ahmad, **Arshid Hussain Ganie**, Ovais Sareer, Vengavasi Krishnapriya, Ibrahim M. Aref, Muhammad Iqbal, *Plant Growth Regulation*, in press
7. Potassium and calcium application ameliorates growth and oxidative homeostasis in salt-stressed indian mustard (*Brassica juncea*) plants *Pak. J. Bot.*, **47(5): 1629-1639, 2015**, Peerzada Yasir Yousuf, Altaf Ahmad, Hemant, **Arshid Hussain Ganie**, Ibrahim Mohammad Aref And Muhammad Iqbal*
8. Development of quality standards and phytochemical analysis of strychnos nux-vomica LINN International Journal of Universal Pharmacy and Life Sciences 2(3): May-June 2012, (ISSN): 2249-6793 Shazad Yaqub*, Mohd Aftab Ahmad, Mohd Asif, Aisha Siddiqui, Nazeem Fahamiya, **Arshid Hussain Ganie**, Muneeb-Ur-Rahman, Mohamed Shiffa
9. Comparative HPTLC Finger Print Profile of Extracts from Fresh Aerial Parts of *Zea mays* L. under low and Sufficient Nitrogen Fertilization Conditions in Different Solvents International Journal on Agricultural Sciences 6 (1): 150-161, January-June 2015 ISSN NO. 0976-450X **Arshid Hussain Ganie**, Altaf Ahmad, Peerzada Yasir Yousuf, Renu Pandey, Sayeed Ahmad, and Muhammad Iqbal*
10. Salt-induced Modulations in the levels of Osmolytes and Phosphorus Metabolism in Indian Mustard Genotypes International Journal on Agricultural Sciences 6 (1): 162-167, January-June 2015 ISSN NO. 0976-450X Peerzada Yasir Yousuf, Altaf Ahmad, **Arshid Hussain Ganie**, Hemant, Muhammad Iqbal*
11. Nitrogen-Efficient and Nitrogen-Inefficient Indian Mustard Showed Differential Expression Pattern of Proteins in Response to Elevated CO₂ and Low Nitrogen PY Yousuf, **Arshid Hussain Ganie**, I Khan, MI Qureshi, MM Ibrahim, M Sarwat, M Iqbal, *Frontiers in Plant Science* 7, 1074
12. Metabolite profiling and network analysis reveal coordinated changes in low-N tolerant and low-N sensitive maize genotypes under nitrogen deficiency and restoration conditions **Arshid Hussain Ganie**, R Pandey, MN Kumar, V Chinnusamy, M Iqbal, A Ahmad *Plants* 9 (11), 1459

Research techniques and skills:

1. Chromatographic techniques- HPLC, HPTLC
2. Mass spectrometric techniques- gas and liquid chromatographic – MS methods

3. CHNS (Carbon, nitrogen, hydrogen and sulphur) analysis
4. Enzyme assays (Nitrate reductase (NR), Gultamine synthetase (GS) , Nitrite reductase (NiR)), protein estimation), In vitro antioxidant activity
5. Cultivation of plants hydroponically, DNA extraction from plants, RAPD and SCAR analysis.

Awards:

1. Best poster award in an international conference on "Environment and Human health. (Nov 28-29, 2012)
2. Best poster award in UGC-SAP DRS-I sponsored national seminar on "MEDICINAL PLANT AND THEIR RESEARCH IN INDIA" (March, 16-17, 2012)

Conferences and workshops attended:

1. Fourth National Conference on "Biotechnology & Pharama Industry" January 28th to 29th, 2012 Punjab, India.
2. 1st Workshop on Computational Core for Plant Metabolomics organized by IIT-Hyderabad and JNU, New Delhi
3. Applications of Flow Cytometry in Plant and Crop Research organized by Jamia Hamdard, New Delhi, India
4. UGC-SAP DRS-I sponsored national seminar on "**Medicinal plants research in India**" March 16-17, 2012, Jamia Hamdard, New Delhi, India (poster presentation)
5. UGC-SAP DRS-I sponsored national seminar on "**Current trends in plant metabolite research**" , Jamia Hamdard, New Delhi, India (poster presentation).

Lectures delivered:

1. Climate change, environment and sustainable development- Hamdard University, New Delhi
2. Medicinal plants research, retrospect and prospect. Hamdard University, New Delhi

Personal information:

Birth date: 10th September, 1986

Marital status: Single

Permanent residence: Arreh, Kulgam Kashmir-192231, *Jammu and Kashmir- India*

References:

Professor Muhammad Iqbal

Education: M.Sc., M.Phil., Ph.D.

Email: miqbal@jamiahamdard.ac.in and qbalg5@yahoo.co.in

Dr. Sayeed Ahmad (Assistant Professor)

Education: M.Pharm., Ph.D., PostDoc (Albert Einstein College Of Medicine, New York)

Email: sahmad_jh@jamiahamdard.ac.in

Dr. Renu Pandey (Senior Scientist)

Specialization: Mineral nutrition

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