Dr. ArajmandFrukh



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EDUCATION

2013-2020:**Ph.D Botany**, Jamia Hamdard, New Delhi, India.

Advisors: Dr. Tariq Omer Siddiqi and Prof. Altaf Ahmad.

2009-2011: **M.Sc Botany**, Jamia Hamdard, New Delhi, India.

University Gold Medalist,Overall Percentage 77.625

2005-2008: **B.Sc**, University of Kashmir, Jammu and Kashmir, India.

Overall Percentage 61.33

RESEARCH EXPERIENCE

1. **Ph.D at Department Of Botany**, *Jamia Hamdard*, New Delhi,India.

Title of Thesis: Biochemical and Proteome Analysis of Salt-sensitive and Salt-tolerant Rice Genotypes.

Duration: FEB 2013 –JUNE 2020

Supervisor: Dr. Tariq Omer Siddiqi

Co-Supervisor:Prof. Altaf Ahmad

2. **MastersDissertationat Departmentof Botany**, *Jamia Hamdard*, New Delhi, India.

Title: Nitrogen Induced Stress Alterationsin the Leaf Proteomeof MustardVarieties.

Duration: NOV 2011 - MAY 2011

Supervisor: Prof. Altaf Ahmad

LAB EXPERIENCE/SKILLS

Lab Skills: Protein Extraction, RNA Extraction, SDS-PAGE including 1-D,2-D Gel Electrophoresis, Real-Time PCR, CHNSAnalysis, LCMS/MS.

SoftwarePackages: Graph-Pad Prism, SPSS, Sigma-Plot, MS Office (Word, PowerPoint, Excel)

TEACHING EXPERIENCE

Worked as a guest faculty to teach Environmental Studies in the School of Unani Medical Education and Research, and School of Pharmaceutical Education and Research in the academic year 2015-16 and 2016-17 respectively at Jamia Hamdard.

PUBLICATIONS/BOOK CHAPTERS

1. **Frukh, A**., Siddiqi, T.O., Khan, M.I.R. and Ahmad, A., 2020. Modulation in growth, biochemical attributes and proteome profile of rice cultivars under salt stress. *Plant Physiology and Biochemistry*, *146*, pp.55-70.
2. **Frukh, A**., Ahmad, A. and Siddiqi, T.O., 2019. Proteomics Insights Into Salt Stress Signaling in Plants. In *Plant Signaling Molecules* (pp. 479-497). Woodhead Publishing.
3. Gulzar, B., Mujib, A., Rajam, M.V., **Frukh, A**. and Zafar, N., 2019. Identification of somatic embryogenesis (SE) related proteins through label-free shotgun proteomic method and cellular role in Catharanthus roseus (L.) G. Don. *Plant Cell, Tissue and Organ Culture (PCTOC)*, *137*(2), pp.225-237.
4. Isah, T., Umar, S., Mujib, A., Sharma, M.P., Rajasekharan, P.E., Zafar, N. and **Frukh, A**., 2018. Secondary metabolism of pharmaceuticals in the plant in vitro cultures: strategies, approaches, and limitations to achieving higher yield. *Plant Cell, Tissue and Organ Culture (PCTOC)*, *132*(2), pp.239-265.

SEMINARS/CONFERENCES ATTENDED

- 30th March2019: National Seminar on Emerging trends in life science, biotechnology and conservative strategies,ETLBCS.

- 26-27 March2019: National Seminar on Biotechnology Research in India- Current status and Futureprospects,Department of Biotechnology, Jamia Hamdard.
- 29-30 April2018: National Seminar on Medicinal Plants:Markets to Produced,NESA,New Delhi.
- 15-17 Dec2016: International Seminar on New Frontiers in Cytogenetics and XIII Conference of the Society ofCytologicts and Geneticists,Dept. of Botany,University of Kerala.
- 21-22 Feb2015: National Seminar on Science-led Development for Environmental sustainability,NESA
- 10th Dec2014: Mini Symposium on Applications of Flow Cytometery in Plant and Crop Research,Jamia Hamdard
- 1st April 2014: National Seminar on Medicinal Plant Research: Retrospect and Prospects,UGC-SAP
- 9th Oct 2013: National Seminar on Climate Change, Environment and SubtainableDevelopment,NESA, Dept. of Botany, Jamia Hamdard.
- 26-27 Feb2013: Natioanl Seminar on Medicinal Plants and their Characterization,UGC-SAP
- 16-17 March2012: National Seminar on Medicinal Plants Research in India,UGC-SAP,DRS-1

HONORS AND AWARDS

1. Awarded second prize for the poster presentation by the society of Cytologists and Geneticists, India.
2. Awarded third prize for the poster presentation in national seminar "Emerging trends in Life Sciences, Biotechnology and Conservation Strategies (ETLBCS), 30th March 2019.
3. Awarded by Certificate of Training in Flow cytometry Basics at BD-JH FACS Academy,New-Delhi
4. Awarded by Senior Research Fellow on June 2015
5. Honored by INSPIRE FELLOWSHIP on 18th March 2013 by Govt. of India, Ministry of Scienceand Technology

6. Awarded Gold Medal for standing first in Msc Botany at Convocation held in March 2012 atJamia Hamdard.
7. Awarded by Certificate of Merit 2010-11 for First position in Msc Botany at Jamia Hamdard