

Curriculum Vitae

Fiaz Ahmad (PhD)

Assistant Professor

Institute of Pure and Applied Biology, Faculty of Science
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Father's Name

Siraj Ahmad

Citizenship

Lodhran (Pakistan)

Date of Birth

01-02-1982

N.I.C. #

36203-1105342-1

Passport #

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HEC Approved Supervisor



OBJECTIVE

To accept challenging position in distinguished organization and utilize personal abilities, traits and initiative to provide effective and efficient services to achieve intended results.

EDUCATION

Qualification	Year	Institute	Major Subjects	Division/Grade	Percentage (%)
PhD Applied Plant Genomics Dissertation (PhD) Analysis of genome-wide DNA methylation and genes expression variation in rice under salt and osmotic stresses	June, 2014	Nanjing Agricultural University, Nanjing, China	1- Epigenetic regulation in crops 2- Structural and functional Genomics 3- The basic experiments in molecular biology 4- Bioinformatics	Ist Class	90.5
MSc (Hons) Agricultural Biotechnology	2009	CABB, University of Agriculture Faisalabad, Pakistan	1- Plant Cell Biotechnology 2- Proteomics and protein engineering 3- Concepts and principles in	Ist Class	74.45

			Biotechnology 4- Concepts in Genetic engineering		
BSc (Hons) Plant Breeding and Genetics	2006	University of agriculture Faisalabad, Pakistan	1- Genetics 2- Crop Breeding 3- Cell Biology 4- Plant Physiology 5- Ecology	Ist Class	62.30

AREA OF SPECIALIZATIONS

1) I am focusing on **Epi-genomics** regulation as well as Genome Organization in crop plants. High Throughput (Next generation sequencing) techniques are applied in order to fully analyze the rice (*Oryza sativa* L.) genome for the percentage of DNA Methylation/demethylation under conserved condition of abiotic stresses; cDNA library construction and isolation of important genes are included in my experience.

2) My basic training at the graduate and post-graduate (M. Sc) levels is in the use of molecular markers to compare the genetic polymorphism and to find the nature of phylogenetic differentiation between the genomes of legume crops. It also carried the Identification of crop cultivars and fungal strains, characterization of the extent of genetic variability within races, assessment of purity of inbred lines, selection of recurrent parental genome in backcross breeding, evaluation of soma-clonal variation at molecular levels.

WORK EXPERIENCE

At Institute of Pure and Applied Biology, Faculty of Science, Bahauddin Zakariya University, Multan 60800, Pakistan. November 2014 to continue

Working as Assistant Professor of plant biotechnology. Designing and performing applied basis research projects and delivering lectures to PhD and master level students included in my duties.

At Central Cotton Research Institute (CCRI) Multan Pakistan. March 2005 – May 2006

Worked as an internee in all the research activities of Plant Breeding and Genetics I.e. Ginning of research material, selection of desirable families, arranging seed for next year sowing maintenance of Genetics stock of world collection, (about 1700 entries), layout of various experiments i.e. Progeny Row Trial, Observation Block Trial, Micro Varietal and Varietal Trial, in CCRI.

PROJECTS

Title of the Project: IMPROVEMENT IN BREEDING AND SEED PRODUCTION SYSTEM OF FODDER CROPS

Funding Agency: Government of the Punjab, Agriculture Department through ADP 2016-17

Status: Running

Title of the Project: GENOME-WIDE PREDICTION OF DNA METHYLATION IMPACT ON RICE UNDER ENVIRONMENTAL HAZARDS

Funding Agency: National Science Foundation of China (31071069), State Key 348 Laboratory of Rice Biology (No. 110101), the 111 project and the Fundamental Research Funds 349 for the Central Universities (No. KYZ201137).

Status: Completed

AWARDS AND ACHIEVEMENTS

- 1) the Chinese Academy of Sciences (CAS) to attend and organize “The third international entrepreneurship training workshop for young scientists and engineers 2015” Yantai, China.
- 2) Full-funded “CSC” PhD scholarship from China Scholarship Council, 2010.
- 3) TWAS Biovision Alexandria 2012, Young Scientist Fellowship Award.
- 4) APAN-34 Fellowship Award 2012 Colombo, Sri Lanka.
- 5) One of the “Excellent student of the year “2012 and 2013” Award from NJAU.
- 6) One of the “Best Athlete” Award and cash prizes in sports gala 2010 and 2011, arranged by Nanjing Agricultural University (NAU), Nanjing, P. R. China.
- 7) Won Government Merit Scholarship for 4-years (2001-2005) graduation program.

PUBLICATIONS

- 1) **Ahmad F**, Huang J, Huma T and Zhang HS. 2016. Genome-wide identification and characterization of some novel genes of Zinc Finger Protein (ZFP) family in rice. *Frontier in Plant Science* (Status: submitted).
- 2) **Ahmad F**, Huang X, Lan HX, Huma T, Ba YM, Huang J and Zhang HS. 2014. Comprehensive gene expression analysis of DNA (cytosine-5) –

methyltransferase family in rice (*Oryza sativa* L.). *Genetics and Molecular Research* 13 (3): 5159 – 5172

- 3) **Ahmad. F**, Rana RM, Huang J and Zhang HS. 2013. Pakistan requires modern techniques and proper management to boost up its agriculture as compared to china. *Asian Journal of Agriculture and Biology* 1(4):164-174.
- 4) Huma. T, Wang Z, Rizak J, **Ahmad F**, Shahab M. Ma YY, Yang S and Hu X. 2013. Kisspeptin-10 Modulates the Proliferation and Differentiation of the Rhesus Monkey Derived Stem Cell Line: R366.4. *The Scientific World Journal* <http://dx.doi.org/10.1155/2013/135470>
- 5) Rana, RM, Dong S, Tang H, **Ahmad F**, and Zhang HS. 2012. Functional analysis of OsHSBP1 and OsHSBP2 revealed their involvement in the heat shock response in rice (*Oryza sativa* L.). *Journal of Experimental Botany* 10.1093/jxb/err313
- 6) **Ahmad F**, Khan AI, Awan FS, Sadia B, Sadaqat HA and Bahadur S. 2010. Genetic diversity of chickpea (*Cicer arietinum* L.) germplasm in Pakistan as revealed by RAPD analysis. *Genetics and Molecular Research* 9 (3): 1414-1420
- 7) **Ahmad F**, Huang J, Huma T and Zhang HS. 2016. Genome-widespread dynamic DNA methylation in rice under salt and osmotic stress. (Status: Under preperation).

ORAL PRESENTATION IN INTERNATIONAL SCIENTIFIC CONFERENCES

- 1) **Ahmad F**. Methylated DNA primer designing and analysis of targeted gene methylation. International Workshop on Genomics and Genome Editing May 24-27, 2016. Forman Christian College (FCC), Lahore, Pakistan.
- 2) **Ahmad F**, Huang J, Mahmood S and Zhang HS. Dynamic DNA methylation and abiotic stresses. International conference on Major Environmental Constraints to Plants: Assessment & Reclamations (MECP-2016) March 28-30, 2016, Government College University, Faisalabad, Pakistan.
- 3) **Ahmad F**. Epi-genetic research with main focus on Bi-sulfite-sequencing. Basic Biotechnology Techniques workshop March 7-9, 2016, Centre of Excellence in Molecular Biology (CEMB), Lahore Pakistan.

- 4) **Ahmad F.** Developing epigenetic role of DNA methylation in sea plants. The 3rd International Conference on Coastal Biotechnology (ICCB 2015) 18-21 August 2015, Qingdao, China.
- 5) **Ahmad F,** Huang J, Huma T and Zhang HS. Genome-widespread dynamic DNA methylation in rice under salt and osmotic stress. 10th Malaysia Genetic Congress (MGS 10th), 3rd-5th December 2013, Palm Garden Hotel IOI Resort, Putrajaya, Malaysia.
- 6) **Ahmad F,** Huang J, Zhang HS. Genome-wide analysis reveals that DNA methylation together with histone modification activates genes in rice (*Oryza sativa* L.) genome to regulate it against abiotic stresses. TWAS/BioVisionAlexandria.NXT Conference 2012, Egypt.
- 7) Ahmad F, Khan AI, Awan FS, Sadia B, Sadaqat HA and Bahadur S. Genetic diversity of chickpea (*Cicer arietinum* L.) germplasm in Pakistan as revealed by RAPD analysis. The national conference on “Pakistan Agriculture Challenges and Opportunities, July 29-31, 2010, Rawlakot, Pakistan. Organized by Pakistan Agricultural Scientist Forum (PAS FOURM).
- 8) Ahmad F, Khan AI, Awan FS, Sadia B, Sadaqat HA and Bahadur S. Genetic diversity of chickpea (*Cicer arietinum* L.) germplasm in Pakistan as revealed by RAPD analysis. EPS Shijiazhuang International Forum on Life Science and Biotechnology, May 23-25, 2011, Shijiazhuang, Hubei, China.

WORKSHOPS, SEMINARS AND PROFESSIONAL TRAINING

- 1) COMSTECH-FCC Joint International Workshop on Genomics and Genome Editing May 24-27, 2016 Forman Christian College, Lahore Pakistan.
- 2) Workshop on “Basic Biotechnology Techniques” March 7-9, 2016. Organized by National Academy of Young Scientists (NAYS) at Centre of Excellence in Molecular Biology (CEMB), Lahore Pakistan.
- 3) “The third international entrepreneurship training workshop for young scientists and engineers August 22-13, 2015” Yantai, China.
- 4) 8th Annual Conference of “Asia Epigenome Alliance and 2nd Taipei Epigenetics and Chromatin Meeting” Nov 6th-8th, 2013, International Conference Hall, Academia Sinica, Taiwan.
- 5) 11th Biennial Conference “Molecular Biosciences-Challenges and Opportunities” November 25th-28th, 2013, School of Biological Sciences, University of the Punjab, Lahore-54590, Pakistan.
- 6) The “EMBO” meeting, Sep 21-24, 2013 Amsterdam, Netherlands.

- 7) “*Plant Epigenetics, Stress and Evolution*” Oct 29- Nov 2, 2012, Dushu Lake Conference Center, Suzhou, China.

MEMBERSHIPS

- 1) Member of peer review committee of African Journal of Biotechnology (AJB)
- 2) Member of peer review committee of Jordan Journal of Biological Science (JJBS)
- 3) Member “**The international Epigenetic Society**”
- 4) Member “**The Society of Plant Breeders and Geneticist**” University of Agriculture, Faisalabad, Pakistan
- 5) Member “**The Agrarian Society**” University of Agriculture, Faisalabad, Pakistan.

REFERENCES

Will be furnished on demand