

# Dr AIMAN HINA

(Plant Breeding & Genetics)



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**Web of Science ID:** AAC-1849-202

## RESEARCH INTERESTS

- \_ Molecular Plant Breeding
- \_ Molecular Genetics
- \_ Plant Bioinformatics
- \_ Plant Biodiversity

## EDUCATION / QUALIFICATIONS

Education/Training	Degree/Year/Specialization		
Institution & Location	Degree	Year(s)	Field
Gomal University D. I. Khan	B.Sc. (Hons) Agriculture	2008	Plant Breeding & Genetics
PMAS-Arid Agriculture University Rawalpindi	M.Sc. (Hons) Agriculture	2011	Plant Breeding & Genetics
Nanjing Agricultural University, P. R. China	Ph.D.	2020	Plant Breeding & Genetics
Kohsar University Murree	Postdoc	2021-present	Botany

## EMPLOYMENT

- 2012-2014** Research Fellow, Horticultural Research Institute, National Agricultural Research Center (NARC), Islamabad
- 2015-2016** Research Fellow, Horticultural Research Institute, National Agricultural Research Center (NARC), Islamabad
- 2021-Present** IPFP Fellow, Department of Botany, Kohsar University Murree

<b>Research Profile</b>	<b>General Research Publications or Activity / Teaching Activity</b>		
	a.	International Publications	06 Research papers
	b.	National Publications	06 Research papers
<b>Total Impact Factor publications</b>		21.46	<b>H Index: 5</b> <b>I-10 Index: 4</b> <b>Citations (Google Scholar): 84</b>
<b>TEACHING PROFILE</b>	<b>Undergraduate Courses Taught:</b> <ul style="list-style-type: none"> <li>• Principles of Animal Life Science-II.</li> <li>• Foundation III Cell Biology, Genetics, Evolution</li> </ul>		

### TRAININGS/CONFERENCES / SEMINARS

- 01-02/2022** Promoting Research Excellence in Academics across Pakistan, 2 days virtual event, HEC Pakistan and Elsevier collaborated event
- 07-08/2021** Professional training at National Academy of Higher Education (NAHE), for National Faculty Development Program (NFDP) 2021-IPFP by Higher Education Commission
- 09/2019** Training of Bioinformatics, Wuhan Benagen Tech Solution Company Limited, P.R. China,
- 10/2018** 5<sup>th</sup> international Symposium on Genomics and Crop Genetic Improvement-Heterosis, Huazhong Agricultural University, P.R. China
- 09/2016** Seminar on Challenges for the global food Industry, Nanjing Agriculture University, P.R. China,
- 06/2016** National workshop on “Organic Food & Health: Avenues of innovations and entrepreneurship, Pakistan Council for Science and Technology, Pakistan
- 06/2016** Conference on Nudging Agriculture towards higher yields, UC Davis, and PMAS-Arid Agriculture University Rawalpindi
- 06/2016** Training on Vegetable Nursery business, National Agricultural Research Centre, Pakistan
- 11/2015** Hands on training for Off-Season production of Vegetables, World Vegetable Centre (AVRDC), Pakistan
- 09/2014** 5<sup>th</sup> International Conference on Agriculture, Food Security and Climate Change. University of Poonch Rawalakot and Pakistan Agricultural Scientist’s Forum, Sep 2014
- 08/2013** Conference on Applications of Molecular Biology in Medicine and Agriculture, Quaid –e-Azam University, Pakistan
- 06/2013** Conference on Prospects and opportunities for agriculture development in Pakistan, University of Haripur

### TRAININGS DELIVERED/ EXHIBITIONS CONDUCTED

- 11/2015** Kitchen Gardening Exhibition for community of Our Gardens at Sector G-6 Islamabad
- 11/2015** Exhibition in Lok Sanjh Foundation Kisan Mela at NARC, Islamabad
- 11/2015** Training on Kitchen Gardening for participants from South Asian countries at Horticultural Research Institute (HRI), NARC
- 11/2015** Training workshop in collaboration with NGO (Irtiqa-E-Fazal) at BaniGalla
- 11/2015** Training to progressive Farmers of Sindh Province
- 10/2015** Kitchen Gardening Exhibition and seminar at Rose & Jasmine Garden Islamabad
- 10/2015** World food day Exhibition at NARC, Islamabad
- 10/2015** Exhibited Kitchen Gardening stuff in FAO Exhibition titled “Social Protection & Agriculture: Breaking the Cycle of Rural Poverty” on World Food Day

- 05/2015** Two days training on different aspects of kitchen gardening to women farming community of Chakwal organized by Lok Sanjh Foundation
- 05/2015** One-day training workshop on “Vegetable production on household level (Kitchen Gardening)” in Nowshera District conducted by the collaboration of ASLP-II Social Project and HRI, NARC, Islamabad.
- 04/2015** Represented Pakistan Agricultural Research Council (PARC) in Two days SPB-FAO international Conference and exhibition were held at Serena Hotel Islamabad
- 03/2015** Kitchen gardening Exhibition at Islamabad club (Winter Carnival)
- 03/2015** Training of Trainers on “Pre and Post-harvest handling and Improved Technologies of off-season Vegetable production” for female farmers at Ali Abad Hunza, GB.
- 02/2015** Two days Kitchen gardening exhibition in Islamabad club
- 02/2015** Conducted Kitchen Gardening Exhibition in Pakistan Agriculture conference & Exhibition at Pak China Friendship Center, Islamabad

### AWARDS & HONORS/ACHIEVEMENTS

- Certificate of Honor for Excellent International Student Award at Nanjing Agricultural University, P.R. China.
- Recipient of Chinese Government Scholarship for Ph.D. 2016-2020.
- Appreciation certificate by Chairman Pakistan Agriculture Research Council, Islamabad, in recognition of meritorious services rendered to PARC.
- Distinction merit certificate for standing First in B.Sc. (Hons), Plant Breeding & Genetics, Gomal University.

### MEMBERSHIPS IN ACADEMIC SOCIETIES

1. Editor, “Molecular Biology Reports (Springer) “
2. Editor, “Medicon Agricultural & Environmental Sciences “

### RESEARCH PUBLICATIONS

**2022**

- Razzaq, M.K., Akhter, M., Ahmad, R.M., Cheema, K. L., **Hina, A.**, Karikari, B. et al. CRISPR-Cas9 based stress tolerance: New hope for abiotic stress tolerance in chickpea (*Cicer arietinum*). *Mol Biol Rep* (2022). <https://doi.org/10.1007/s11033-022-07391-4>

**2021**

- Ripa Akter Sharmin, Benjamin Karikari, Fangguo Chang, GM Al Amin, Mashiur Rahman Bhuiyan, **Aiman Hina**, Wenhuan Lv, Zhang Chunting, Naheeda Begum and Tuanjie Zhao. 2021. Genome-wide Association Study Uncovers Major Genetic Loci Associated with Seed Flooding Tolerance in Soybean. *BMC Plant Biology*. <https://doi.org/10.1186/s12870-021-03268-z>
- Mahmoud A Elattar, Benjamin Karikari, Shuguang Li, Shiyu Song, Cao Yong Ce, Muhammed Aslam, **Aiman Hina**, Salah Fatouh Abou-Elwafa and Tuanjie Zhao. Identification and validation of major QTLs, epistatic interactions and candidate genes for soybean seed shape and weight using two related RIL populations. *Front. Genet.*, 2021 May. <https://www.frontiersin.org/articles/10.3389/fgene.2021.666440/full>

**2020**

- **Hina A**, Cao Y, Song S, Li S, Sharmin RA, Elattar MA, Bhat JA, Zhao T. High-Resolution Mapping in Two RIL Populations Refines Major “QTL Hotspot” Regions for Seed Size and Shape in Soybean

(*Glycine max* L.). International Journal of Molecular Sciences. 2020 Jan;21(3):1040.  
<https://doi.org/10.3390/ijms21031040>

## 2019

- Zhang, X., **Hina, A.**, Song, S. *et al.* Whole-genome mapping identified novel “QTL hotspots regions” for seed storability in soybean (*Glycine max* L.). *BMC Genomics* **20**, 499 (2019).  
<https://doi.org/10.1186/s12864-019-5897-5>
- Xi Zhang X, Mengge Xu, **Aiman Hina**, Jiejie Kong, Junyi Gai, Xiaohong He and Tuanjie Zhao. Seed storability of summer-planting soybeans under natural and artificial aging conditions. *Legume Research*, 42(2) 2019: 250-259. <http://dx.doi.org/10.18805/LR-404>

## 2017

- Hussain, M. M, **A. Hina**, A. Saeed, S. Sabahat, F. T. Jannat and M. Aslam. 2017. Impact of Heavy Metals on Plants and Animals in Relation to Sewage Water – A Review. *Science, Technology and Development* 36 (4): 215-226, DOI: 10.3923/std.2017.215.226
- Hussain, M. M., A. Saeed, **A. Hina**, A. Mehmood, S. Mahmood, T. N. Khan, M. Umair and G. Jellani. 2017. Inheritance Pattern of Some Quality Parameters in *Solanum lycopersicum* L. under Lead Stress. *Sci. Technol. Dev.*, 36 (2): 98-105, DOI: 10.3923/std.2017.98.105

## 2014

- Shazia, E., **A. Hina** and H. Zahid. 2014. Bioaccumulation of pollutants from textile wastewater by *Hydrocotyle umbellata* L. *INT. J. BIOL. BIOTECH.*, 11 (2-3): 245-253.
- Ramzan, A., T. Naseeb, N. N. Noshewan, **A. Hina** and T. Noor. 2014. Estimation of Genetic Components in Parents and Their Hybrids (F1) in Determinate Tomato (*Lycopersicon esculentum* Mill.). *J. Agric. Res.*, 52(1). 65-75.
- Ramzan, A., T. Noor, T. N. Khan and **A. Hina**. 2014. Correlation, Cluster and Regression analysis of Seed Yield and Its Contributing Traits in Pea (*Pisum sativum* L.). *J. Agric. Res.*, 52(4):481-488.

## 2013

- **Hina, A.**, Z. Akram, T. Naseeb Khan. 2013. Evaluation of different wheat genotypes for quality through molecular characterization. *INT.J. BIOL.BIOTECH.* 10 (2). 221-228.

## CONFERENCE PROCEEDING

- **Hina, A.**, A. Ramzan, T. Noor and M. Ali. 2013. Development for the sustainable production of selected vegetables in proceedings of 1<sup>st</sup> National conference on “Prospects and Opportunities for Agricultural Development in Pakistan. June. 25<sup>th</sup>-27<sup>th</sup>, 2013. Khanisur, University of Haripur Pakistan.
- **Hina, A.**, Z. Akram, T. N. Khan and M. Ilyas. 2014. Global Food Security: Could wheat feed the world? in *Proceedings of 5<sup>th</sup> International Conference on “Agriculture, Food Security and Climate Change”* Sep. 09-11, 2014, Rawalakot, 252-253. University of Poonch Rawalakot and Pakistan Agricultural Scientist’s Forum.

## BOOK CHAPTER

- Habib, M. **Hina, A.**, and M. Sajjad, MQ Ahmad. 2022. Marker Assisted Selection in Wheat. In: Faheem Shahzad (eds) *Wheat* Springer. Accepted.