

SYED ZIA UL HASAN

Horticulturist/Master Trainer

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Sex: Male

Date of Birth: 25/01/1985

Nationality: Pakistani

SUMMARY

Research Experience of more than eight years in field of horticulture helped me in Tissue culture, Establishment and Management of Orchards, Growing of Vegetables, Propagation Methods of Plants, Tunnel farming, Soil and Water Conservation, Rehabilitation of Degraded lands, Nursery management, Insect pests attack as well as their control and rectifies nutrition deficiency of plants.

I hold M.Sc. (Hons.) degree in Agriculture-Horticulture from the PMAS- Arid Agriculture University, Rawalpindi, Pakistan. The title of my M.Sc thesis was “**Direct Shoot Regeneration from leaves of Peach rootstock GF 677**”. I got **eighteen** research and review publications in various national/international Journals and conferences on different aspects such as Tissue culture, Pomology, Floriculture and Soil & Water Conservation. One newspaper article and one training manual for professionals and farmers on resource conservation technologies and peer reviewed three articles of international Journals.

Achieved highly prestigious Norman Borlaug Fellowship award for Pakistan in the year 2013 and visited to Colorado State University Fort Collins USA

Currently doing My PhD (Horticulture) from PMAS-Arid Agriculture University Rawalpindi Pakistan on topic “**Influence of Salicylic Acid and Iron Nano Particles on Quality Enhancement of Strawberry**”

Research Articles

1. Majid Iqbal, Muhammad Jafar Jaskani, Rizwan Rafique, **Syed Zia Ul Hasan**, Misbah Rasheed, Salman Mushtaq and Javed Iqbal. 2015. Accelerating Microtuberization In Potato By Irradiation Journal of Green Physiology, Genetics and Genomics.2015. 1(2): 35-44
2. Majid Iqbal, Muhammad Jafar Jaskani, Rizwan Rafique, **Syed Zia Ul Hasan**, Muhammad Shahid Iqbal, Misbah Rasheed and Salman Mushtaq. 2014. Effect of Plant Growth Regulators on Callus Formation in Potato. Journal of Agri-Food and Applied Sciences Vol. 2(3), pp. 77-81.
3. Salman Mushtaq, Ishfaq Ahmad Hafiz, Muhammad Shahid Iqbal **Syed Zia ul Hasan**, Muhammad Arif, Sami Ullah, Misbah Rasheed and Rizwan Rafique. 2013. Studies on the performance of some exotic gladiolus cultivars under rain-fed conditions. International Journal of Modern Agriculture, Volume 2, No.3.
4. Rizwan Rafique, Balquees Fatima, Muhammad Shahid Iqbal, **Syed Zia Ul Hasan**, Misbah Rasheed, Majid Iqbal, Salman Mushtaq and Mehwish Rasheed. Effect of sucrose on *in vitro* Callogenesis, Embryogenesis and Organogenesis of *Dendrobium sabin* H. Accepted for publication. Journal of Biology, Agriculture and Healthcare
5. Misbah Rasheed, Muhammad Jafar Jaskani, Mehwish Rasheed, Muhammad Shahid Iqbal ,**Syed Zia Ul Hasan**, Rizwan Rafique, Salman Mushtaq and Majid Iqbal. 2013. Regeneration of Plantlets from various Explants of Tetraploid watermelon Journal of Biology, Agriculture and Healthcare. Vol.3, No.1, **2013**.
6. Salman Mushtaq, Ishfaq Ahmad Hafiz, **Syed Zia Ul Hasan**, Muhammad Arif, Muhammad Asif Shehzad, Rizwan Rafique, Misbah Rasheed, Muhammad Ali and Muhammad Shahid Iqbal. 2012. Evaluation of seed priming on germination of *Gladiolus alatus*. African Journal of Biotechnology. African Journal of Biotechnology Vol. 11(52): 11520-11523.
7. Rizwan Rafique, Balquees Fatima, Salman Mushtaq, Muhammad Shahid Iqbal, Misbah Rasheed, Muhammad Ali and **Syed Zia Ul Hasan**.2012. Effect of indole-3-butyric acid (IBA) on in vitro root induction in dendrobium orchid (*Dendrobium sabin* H.) African Journal of Biotechnology. 11 (20): 4673-4675DOI: 10.5897/AJB11.2319.
8. Azhar Hussain, Nadeem A. Abbasi, Ishfaq A. Hafiz and **Syed Zia ul Hasan**. 2011. A comparative study of five loquat genotypes at Tret, Murree. Pak. J. Bot., 43(5): 2503-2505.
9. Azhar Hussain, Nadeem A. Abbasi, Ishfaq A. Hafiz and **Syed Zia Ul Hasan**. 2011. A comparison among five loquat genotypes cultivated at Hasan Abdal and Wah. Pakistan J. Agri. Sci 48(2),103-107.

10. **Syed Zia Ul Hasan**, Touqeer Ahmad, Ishfaq Ahmad Hafiz and Azhar Hussain. 2010. Direct Plant Regeneration From Leaves of *Prunus* Rootstock GF-677. Pak. J. Bot., 42(6): 3817-3830.

Review article

11. **Syed Zia Ul Hasan**, Ajmal Khan, Ajay. K. Jha, Abdul Razzaq, Muhammad Rafique Sajjad and Ghulam Muhammad. 2014. Green Manure for Improved Wheat Yield through Moisture Conservation In Rainfed Areas Of Pakistan.

Edited Books

12. Nadeem Akhtar Abbasi, Touqeer Ahmad, Abdul Ahad and Syed Zia ul Hasan. 2018. **Abstract Book**. International Horticulture Conference 25-27 April 2018. Pakistan

Abstract Published

13. **S. Z. Hasan**, T. Ahmad, I. A. Hafiz and A. Hussain. 2018. Direct regeneration from leaves of economically important rootstock GF 677. International Horticulture Conference Pakistan. 25-27 April 2018

14. **S. Z. Hasan**, R. Bibi, S. N. Malik and A. Sohail. 2018. Efficient use of available water resources to ensure food security and climate change adaptation in Pakistan. National Symposium On " Soil Plant Water Interaction for Orchards Management Under Changing Climate 7-9 May 2018.

15. Samia Nisar, Imran Hassan, Ishfaq Ahmad Hafiz, Ghulam Jilani and **Syed Zia ul Hasan**. 2018. Effect of zinc nanoparticles on seed priming, growth and production of cucumber. 1st International & 2nd National Conference "Challenges and Opportunities to Boost Agriculture in Changing Climate" March 26-28, 2018

16. Ishrat Batool, Imran Hassan, Ishfaq Ahmad Hafiz, Khalid Saifullah Khan, Adnan Saleem and **Syed Zia ul Hasan**. 2018. Effect of copper nanoparticles on quality enhancement of sweet pepper. 1st International & 2nd National Conference "Challenges and Opportunities to Boost Agriculture in Changing Climate" March 26-28, 2018

17. **S.Z. Hasan***, A. Khan*, M. R. Sajjad*, T. Mahmood*, G. Muhammad* and A. H. Khalid. 2013. Moisture conservation in Rainfed areas- An approach to combat water scarcity and ensure food security in climate change scenario. Agmip-Pakistan Kickoff Workshop & International Seminar on Climate Change (June 4-6, 2013) 57 pp

18. **S.Z. Hasan**, A. Khan, B. Hussain, S. N. Malik and W. Naseem. 2013. Judicious use of available water resources to ensure food security in climate change scenario. Agmip-Pakistan Kickoff Workshop & International Seminar on Climate Change (June 4-6, 2013) 17 pp

Newspaper Articles

19. **Syed Zia Ul Hasan**. 2012. **HYDROPONICS** – Present Position and also Future Scope throughout Pakistan. <http://collegeanduniversityview.blogspot.com/2012/03/hydrop>

Training Manual

20 Muhammad Ramzan Anser, Bashir Hussain, Shahid Munir, **Syed Zia ul Hassan**, M. Rafique Sajjad and Malik Ajmal Khan. 2014. **Training Manual on Soil & Water Conservation Technologies**

PROJECTS

- Through the project of the “Watershed Rehabilitation and Irrigation Improvement: Development and Demonstration of best practices to help rural farmers of Pakistan funded by USDA and ICARDA, I gained experience of demonstrating and disseminating the knowledge to farmers and professionals through development of demonstration model farms and dissemination material. I worked as master trainer and trained 500 professionals and 1000 farmers on resource conservation technologies.
- Through the project of the “Improving Soil Fertility and Soil Health” funded by USDA and ICARDA, I gained experience of demonstrating and disseminating the knowledge to women farmers and professionals through development of demonstration model farms and dissemination material. Similar to the above mentioned projects trained 80 professionals and 300 female farmers.

ADDITIONAL INFORMATION

Peer Reviewing of Manuscripts

1. Peer Reviewed article entitled “Effect of Plant Growth Regulators on seed germination and development of Protocorm and seedling of *Phalaenopsis Amabilis* blame (Orchidaceae).
Journal Name: Annual Research and Review in Biology
2. Peer Reviewed article entitled “Effect of sodium Azide (NaN₃) on seed germination, Plantlet Growth and In vitro Antimalarial activities of *Phyllanthus odontadenius* Mull Arg.
Journal Name: American Journal of Experimental Agriculture
3. Peer Reviewed article entitled “.Effect of Sowing Date on Yield and Quality of Soybean”
Journal Name: Journal of Agriculture and Ecology Research
4. Peer Reviewed article entitled “Comparative Analysis Of The Cost And Strength Of Different Coarse Aggregate In Pavers Production

Journal Name: International Journal of Environmental Science and Toxicology Research (IJESTR)

Presentations

- Delivered 22 seminars to professionals and farmers on “High efficiency irrigation systems and rainwater harvesting”
- Practically Demonstrated “ Rainwater Harvesting Techniques And High Efficiency Irrigation Systems” to farming community”
- Delivered a lecture on “ Use of Gypsum for moisture conservation”

Conferences

- Participated in international conference on **Prospects And Challenges To Sustainable Agriculture** 14-16 July, 2011 held at Faculty of Agriculture , Rawalakot, The university of Azad Jammu & Kashmir
- Participated in 5th international conference on **Agriculture Food Security and Climate Change** from 9-11 September, 2014 held at Faculty of Agriculture , Rawalakot, The university of Azad Jammu & Kashmir
- Organized International Horticulture Conference Pakistan at PMAS- Arid Agriculture University Rawalpindi as Member Technical Committee.

Honors and awards

- **Secured Indigenous Scholarship** for PhD in Agricultural sciences for year 2017-2020.
- Awarded **Norman Borlaug fellowship award** and attended two months training course at Colorado State University USA in 2013
- Cleared IELTS examination with “7” Band in 2011

Certifications/Training /Workshops

- Certificate of participation in training workshop on “**Incorporating Agricultural service providers into demonstration and dissemination activities in rural Pakistan**” from 15-18 April 2013 conducted by Colorado state University in collaboration with ICARDA.
- Certificate of participation in one week training course on “ **PC-1 Preparation for Officers**” from 12th December to 17th December 2011 conducted by MPDD Lahore
- Certificate of Merit on successful completion of Leadership camp Held at PAF base KalaBagh.
- Successfully completed a training on “**Project Proposal and Report Writing**” from 24-28 May 2010 held at AHK center for rural development and Municipal administration.
- Successfully completed training on “**Environment Impact Assessment**” from 03-05 May 2010 held at AHK center for rural development and Municipal administration.
- Successfully completed training on “**Natural Resource Management in Rural Areas**” from 22-24 April 2010 held at

- AHK center for rural development and Municipal administration.
- Successfully completed training on “**Operating System and Preparation of Office Documents using MS Word**” from 22-27 March 2010 held at AHK center for rural development and Municipal administration.
 - Certificate of participation in 10 days training course on “**Professional floristry**” from 2nd-11th November 2009 conducted by Department of Horticulture , PMAS-Arid Agriculture University Rawalpindi in collaboration with ASF

EDUCATION AND TRAINING

Dates	1-10-2007 to 1-09-2009
Title of qualification	Master of Science (Hons) Agriculture-Horticulture
Principal subject	Horticulture
Scored (CGPA)	3.54/4.00
Name of Institution	PMAS-Arid Agriculture University Rawalpindi Pakistan

Dates	1-10-2003 to 30-08-2009
Title of qualification	Bachelor of Science (Hons) Agriculture-Horticulture
Principal subject	Horticulture
Scored (CGPA)	3.57/4.00
Name of Institution	PMAS-Arid Agriculture University Rawalpindi Pakistan

Dates	1-03-2001 to 25-06-2003
Title of qualification	Intermediate pre-medical group
Principal subject	Biology
Scored (CGPA) %	67%
Name of Institution	Fazaia Inter college Jinnah Camp Rawalpindi

WORK EXPERIENCE

Job Title	Assistant Research Officer (Horticulture)
Date of Employment	June 2010 – To Date
Name of employer	Government of the Punjab, Agriculture Department
Name of office:	Soil & Water Conservation Research Institute Chakwal

A research organization with more than two decades of experience working on soil and water related issues

Main Activities & Responsibilities	➤ Successfully managed the gullied and eroded lands with horticultural crops such as Grapes, Olive, Guava, Ber and Falsa. ➤ Helping farming communities for sustainable agriculture through kitchen gardening ➤ Assistances to do all types of asexual (budding and grafting) and sexual propagation of plants.
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- Developing true to type nursery plants of olive and grapes and their utilization for management of degraded lands.
- To test different high efficiency irrigation system to find an appropriate system for fruit plants to best conserve water

Job Title **Internship**
Date of Employment Jun 2009-May 2010

Name of employer Government of the Punjab, Agriculture Department
 A Government organization established in all districts for the welfare and guidance of the farmers regarding agriculture

Main Activities & Responsibilities

- Involved in implementation of project work regarding the provision of high efficiency irrigation system for farmers.
- Learning office application and making of reports

PERSONAL SKILLS

Mother tongue Urdu
Other language English

Examination	Listening	Reading	Writing	Speaking	Overall band
IELTS	6.5	6.5	7.5	6.5	7.0

Technical skills:

- MS Office (Word, Excel, Power Point)
- SPSS data processing and data analysis
- Excellent ability in navigation through the internet
- Writing technical and project reports
- Reviewing of Research papers

Social and Communication skills

The knowledge I gained through study in higher institutes and working with national and international organizations with motivation to bring improvement in livelihood of common people, I have developed good negotiating skills. Moreover I have practiced communication and team work as essential skills in last 6 years. I communicate effectively with others understanding their feeling and have highly developed empathy. I possess problem solving skills and I am happy that I have acted as an actor rather than spectator in bringing improvement in society. I am capable of planning ahead to learn from experience, adopt and implement daily acquired knowledge and skills that I need to work with young people.

Personal skills:

Research, study, professional, responsible, hardworking, persistent and initiative person, team player, communicative, willing to cooperate, capable of making independent decisions. In my work I am highly motivated that the needed activities and tasks are accomplished to the very end

**Organizational /
Managerial skills**

I worked as focal person for my organization and involved in conduction and managing events likes seminars, workshops, professional training and farmer days. I worked from planning till execution of the task and remained successful in multitasking and doing different jobs simultaneously with perfection. I conducted 22 professional trainings and 25 farmer days on land and water management technologies such as Gully Management, soil erosion control and high efficiency irrigation systems.