



## CURRICULUM VITAE

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### Academic Qualification

S No	Degree	Subject	Institution	Country	Year	Marks		% / Grade
						Obtained	Total	
1	Ph.D.	Plant Mol. Genetics	University of Azad Jammu and Kashmir and University of Sussex. UK	Pakistan	2011	—	—	Not Applicable
2	M.Sc. (Hons)	Plant Breeding and Mol. Genetics	University of Azad Jammu and Kashmir	Pakistan	2002/03	746	940	CGPA=3.79 79.36 %
3	B.Sc. (Hons)	Plant Breeding and Genetics	University of Azad Jammu and Kashmir	Pakistan	1999	1873	2750	68.1% Annual System

**Thesis (Ph.D):** Genetic Characterization of Sea buckthorn (*Hippophae rhamnoides* L) *Turkestanica* from Northern Areas of Pakistan in relation to valuable biochemical constituents.

**Thesis MSc (Hons.):** Morpho-Molecular evaluation of Maize (*Zea mays*) varieties under the agro ecological conditions of District Kotli, Azad Kashmir.

**Thesis B.Sc (Hons.)** Evaluation of Biological Diversity in *Mentha spp.* From Azad Jammu and Kashmir using Protein Fingerprinting Techniques.

**Areas of Research:** Plant Molecular Genetics and Plant Breeding, Agricultural Biotechnology, biodiversity evaluation and utilization of local flora in applied research.

### **JOBS HELD (Past to Present)**

<b><u>Designation</u></b>	<b><u>From</u></b>	<b><u>To</u></b>	<b><u>Duration</u></b>
• Research Associate	04/2003	04/2006	3 Years
• Senior Scientific Officer	04/2006	09/2008	8 months
• Part Time lecturer	04/2008	09/2008	5 months
• Lecturer	09/2008	08/2013	5 years
• Assistant Professor	08/2013	02/2019	6 Years
• <b>Associate Professor...</b>	<b>03/2019</b>		<b>Continued</b>
• <b>Chairman Department of Biotechnology</b>	<b>07/2015</b>		<b>Continued</b>
• <b>Dean Faculty of Sciences</b>	<b>02/2018</b>		<b>Continued</b>

### **TRAININGS:**

<b>2015</b>	<b>Intellectual Property Rights</b> , organized by HEC Pakistan on <b>14-15/10-2015</b>
<b>2010</b>	8 <sup>th</sup> National Training on <b>Modern techniques in Biotechnology</b> organized by National Institute of Biotechnology and Genetic Engineering (NIBGE) Faisalabad. April <b>12-16 2010</b>
<b>2008</b>	Training on <b>Nuclear and Other Techniques in Agriculture Research</b> , organized by Nuclear Institute of Food and Agriculture (NIFA) Peshawar. <b>2009</b>

### **HONOURS/AWARDS/Grants**

1. Grant for Collaborative Research under **Pak-UK Education Gateway funded by British Council UK** (2019)
2. Grant for HEC's **Local Faculty visit program** to UK under **Pakistan Program for Collaborative Research 2017**.
3. Travel Grant to present a paper in international Conference in Germany **2013**.
4. **Research Productivity Award 2011** by Pakistan Council for Science and Technology Pakistan
5. **Certificate of Excellence** by the Vice Chancellor of Poonch University for research productivity award.
6. HEC's **Local Faculty visit program** to UK under **Pakistan Program for Collaborative Research 2011**.
7. **Award of Honour** by the Mayor of Luton (UK) for being the 1<sup>st</sup> PhD of The University of Azad Jammu and Kashmir.
8. **International Research Support Initiative Fellowship Award 2007** for completion of PhD research, Higher Education Commission, Govt. of Pakistan, Islamabad.

9. Certificate of merit for **excellent performance** in organizing International science Conference in the Faculty
10. **Certificate of Merit for publishing papers in journals with impact factor** for the year 2010.
11. Certificate of Merit for active member of College Tutorial Group 1998.
12. Certificate of Merit for winning Table Tennis Final in University Sports 2002.
13. Certificate of Merit as member of Cricket team of the College.
14. Certificate of merit for Editor College Magazine (English Section)

## **NATURE OF EXPERIENCE**

### **A: TEACHING**

- **16 years Experience of Teaching Courses to BS, M.Phil and Ph.D students including Molecular Biology, Genetics, Agricultural Biotechnology, Tissue Culture, Advanced Plant Breeding and Applications of Biotechnology,**

### **RESEARCH:**

- Supervised 20 M.Phil students.
- Supervising 5 Ph. D students in their research.
- Received Research Productivity award from Ministry of Science and Technology, Pakistan.
- Published 40 Research Papers in peer reviewed journals.
- Presented research work in 5 International Universities including University of Cambridge.
- Reviewer of HEC Projects including NRPU and Local Challenge Fund.
- Reviewer of Pakistan Science Foundation Research projects
- Reviewer of Research Projects, Punjab Agriculture Research Board
- Reviewer of Research Projects, Punjab Higher Education Commission.
- Reviewer of Research Projects, Global Challenges Research Fund.

### **C: ADMINISTRATION**

- **Chairman Department of Biotechnology**
- **Dean Faculty of Sciences, University of Kotli**
- **Chief Organizer** for International Conference on "Natural Sciences at the Interface of Climate Change, Food Security and Sustainability" at **University of Kotli (24-26<sup>th</sup> of October, 2018)**
- **Chief Organizer** for the international conference on "Indigenous Resource Management: challenges and opportunities" held on **14-15 April 2015 at UMSIT Kotli**
- **Chairman University Prospectus Committee**
- **Chairman Board of Faculty**
- **Chairman Board of studies Department of Biotechnology UoK**

- **Member Board of Studies Department of Biotechnology, The University of Poonch Rawalakot.**
- **Member Board of Studies, Department of Environmental Sciences, Mirpur University of Science and Technology, Mirpur.**
- **Member Students' Disciplinary Committee**
- **Member Board of Advanced Studies and Research.**
- **Member University Finance and Planning Committee**
- **Focal person** for Climate Change policy development Government of AJK
- **Focal Person (Covid-19 Pandemic) University of Kotli AJ&K.**

**(Previous Responsibilities)**

- **Director Students' Financial Aid**
- **Member University Statutes Committee**
- **Focal Person PM's Laptops and fee imbursement programs**
- **In Charge Quality Enhancement Cell.**
- **Assistant Director Students Affairs**
- **Chief Organizer of International Science Conference in University of Kotli, AJK 2016**
- **Chief Organizer of International Science Conference in University of Kotli AJK in 2019.**
- **Secretary** of International Science Conferences held at Faculty of Agriculture Rawalakot, 2009, 2010, 2011 and 2012
- **Coordinator Organizing Committee** International Science Conference held in July 2010 at Faculty of Agriculture Rawalakot
- **Coordinator** weekly seminars being conducted in the faculty from **April 2008** to November 2015.
- **Laboratory in charge**, Department of Plant Breeding and Molecular Genetics from April 2008 to September 2011
- **Chief Editor University Newsletter**

**C: RESEARCH PROJECTS COMPLETED AS PI**

- 1- Genetic Improvement of Common bean (*Phaseolus vulgaris*) genotypes from Azad Jammu and Kashmir using marker assisted breeding for cultivar development. Worth: Rs: 6.24 Millions. 2020 **(Principal Investigator)**.
- 2- Conservation of Degraded lands Kahala Baloch District Sudhanhottee by Establishing Sea buckthorn" funded by EPA Azad Kashmir, Ministry of Environment Government of Pakistan. 2005. **(Principal Investigator)**
- 3- Low Cost Carbon Filtered Drinking Water in the areas of struggle in Pakistan (Global Challenge Research Fund, UK) worth 80,000 UK Pounds. (Main Partner)

**Projects Completed as Co PI:**

- 1- No.21-1776/SRGP/R&D/HEC/2017 Start-up Research Grant program (SRGP) Higher Education Commission (HEC) Pakistan.
- 2- No.21-1786/SRGP/R&D/HEC/2017 Start-up Research Grant program (SRGP) Higher Education Commission (HEC) Pakistan
- 3- Removal modeling of selected non-steroidal anti-inflammatory drugs (NSAID) from surface water using pine needles based bio-char (PNBC) supplemented with indigenous microbial consortium using response surface methodology-central composite design (RSM-CCD)
- 4- Start-up Research Grant program (SRGP) Higher Education Commission (HEC) Pakistan

#### **Research Projects Submitted:**

- 1- Biological control of *Parthenium hysterophorus*; an invasive species. HEC under Local Challenge Research Fund (passed through initial screening, Review is in process).
- 2- Feasibility study for sustainable, affordable PV/T-biomethane energy solution for rural Pakistan. Worth 100000 British Pounds. (Partner)
- 3- Feasibility for clean cooking and rural empowerment in Pakistan through robust and innovative hybrid solar and biogas community plants. under Local Challenge Research Fund Worth 100000 British Pounds (Partner)
- 4- Development of herbal sanitizer and disinfectants from selected medicinal plants from Azad Jammu and Kashmir. Council for Science and Technology Pakistan. Worth Rs: 0.5 millions

#### **Collaborations:**

- Tun Abdul Razzaq Research Centre, Hertfordshires UK.
- University of Aberystwyth (UK)
- Dr. Stephen R Pearce University of Sussex UK
- Nottingham Trent University UK
- University of Warwick
- Rothamsted Research United Kingdom
- National Institute of Genomics and Advanced Biology Islamabad
- Department of Agriculture Azad Jammu and Kashmir
- Department of Biochemistry, Karachi University

#### **Membership of Associations**

- 1) **Member Royal Biological Society (UK)**
- 2) **Member Society for Experimental Biology (SEB) UK**
- 3) **Life member Pakistan Botanical Society**
- 4) **Country Representative Sea buckthorn and Member International Scientific Committee for Sea buckthorn Association**

## **LIST OF PUBLICATIONS**

1. **Asad Hussain Shah**, Ishtiaq Khaliq, Ghosia Bashir, Sammya Jannat. 2020 Genetic Diversity in Common Bean (*Phaseolus vulgaris* L.) Germplasm to Establish a Breeding Program in the Mountainous Region of Jammu and Kashmir. *Indian Journal Of Agricultural Research*.2020.(54):629-634
2. Sammya Jannat, **Asad Hussain Shah**, Syed Mubasher Sabir and Sania K. 2019. Genetic and nutritional profiling of Common bean germplasm from Azad Jammu and Kashmir and exotic accessions. *The Journal of Animal and Plant Sciences* (29) 1, 2019: 205-214.
3. Jannat, S., **Shah, A. H.** and Sabir, S. M. 2019. Nutraceutical characterisation of common bean (*Phaseolus vulgaris* L.) germplasm from Pakistan. *International Food Research Journal* 26(6): 1835-1843.
4. S.Arif, MR Khan, SDA Gardezi, MF Khan, A Hamid, **AH Shah**, GM Ali Molecular cloning and transcript profiling of ascorbate oxidase gene at different growth developmental stages from therapeutically important plant Sea buckthorn (*Hippophae rhamnoides* L) *PAKISTAN JOURNAL OF BOTANY* 49 (3), 1143-1154-2017
5. Synthesis ,Charaterization and Biological activities of sepholosporin metal complexes. Rehmat Zaman, Wajid Rehman, Mukhtiyar Hussain, Muhammad Mumtaz Khan, Zeeshn Anjum, Syed **Asad Hussain Shah** and Syed Rizwwan Abbas. 2016. *International Journal of Biosciences* Vol. 9 No.5 Pages: 163-172
6. Syed Mubasher Sabir, Rashid Hussain Shah and **Asad Hussain Shah**, 2015. Total Phenolics and ascorbic acid and anti oxidant activities of twelve different ecotypes of *Phyllanthus umblica* from Pakistan. *Chiang Mae J. Science* 42, (X) 1-9 I.F: 0.37
7. F Batool, **A H Shah** and D A Halem 2015. Effects of high fat diet and repeated resistant stress on food intake and energy metabolism in 5-H2TC mutant mice. *Proceedings of British Pharmacological society* (I.F) 4.3
8. Rao A., SD Ahmad, SM Sabir, Shahid I Awan, and **Asad Hussain Shah**. 2013. Anti oxidant activity of selected wheat cultivars under salt stress. *Journal of Medicinal Plant and research*. Vol (4) 155-164

9. Rizwan A., SD Ahmad, SM Sabir and **Asad Hussain Shah**. 2013. Anti oxidant activity and oxidative DNA damage protecting ability of Sugar Cane. Australian J. of Crop Science (IF 1.6) 7 (1) 40-45, 2013
10. Aurangzeb Rao, Syed Dilnawaz Ahmad, Syed Mubashar Sabir, Shahid Awan, **Asad Hussain Shah**, Syed Rizwan Abbas, Saima Shafique, Sardar Ali And Fareed Khan. Antioxidant activity and lipid peroxidation of selected wheat cultivars under salt stress. Journal of Medicinal Crop Research. 7 (4), 155-164 (2013).
11. **Asad Hussain Shah**, Shazia Arif, S. D Ahamd, S. M Sabir, S.I Awan, and Farhat Batool 2012. Sea buckthorn (*Hippophae rhamnoides* L): Research and Development in Azad Jammu and Kashmir, Pakistan. Conservation and Sustainable Utilization of Medicinal Plants in Pakistan: proceedings of PARC and TASO-PGR Workshop held at NARC, Islamabad, Pakistan. Organized by IAB&GR (NARC) Islamabad
12. Shahid Iqbal Awan, Muhammad Shahzad Ahmed , Jehanzeb Farooq ,Syed Dilnawaz Ahmed, Muhammad Ilyas, **Asad Hussain Shah**, Muhammad Fareed Khan, Sardar Ali Lutful Hasan. 2011. Genetic model analysis on seedling and maturity traits I wheat under rainfed conditions. Frontiers of Agriculture China. 5(4): 486-496.
13. Farhat Batool, Mubasher Sabir, J.P.E Rocha, **Asad Hussain Shah**, Zafar Saied Saifi and Syed Dilnawaz Ahmad 2010. Evaluation of anti oxidant and free radical scavenging activities of fruit extract from *Xanthoxylum alutum*: A commonly used spice from Pakistan. Pak.J Bot, 42(6) 4299-4311.
14. Shazia Arif, Syed Dilnawaz Ahmad, **Asad Hussain Shah**, Lutful Hassan, Shahid Iqbal Awan, Abdul Hamid and Farhat Batool, 2010. Determination of Optimum harvesting time for Vitamin C, Oil and Mineral elements in berries of Sea buckthorn (*Hippophae rhamnoides*) Pak. J Bot. 24( 5) 3561-3568
15. Farhat Batool, **Asad Hussain Shah**, Syed Dilnawaz Ahmad, Zafar Saied Saifi and Darakhshan Jabeen Haleem. Protective effects of aqueous fruit extract from Sea buckthorn (*Hippophae rhamnoides* L Spp. *Turkestanica*) on haloperidol-induced orofacial dyskinesia and neuronal alterations in the striatum. Med.Sci.Moni. 16(8) 285-292. **Impact Factor 1.5**
16. Abdul Hamid, Maqsood Ahmed, **Asad Hussain Shah** and G.F Monakhos 2010. Self Incompatibility and seed testing through seed setting through hetrogamic bud pollination and autogamic pollination of flowers as affected by location of bud/flower on plant, air temperature and time of pollination in self-incompatible inbred lines of head cabbage. Sarhad Journal of Agriculture, Vol.26 (1) 1-5
17. Farat Batool, **Asad Hussain Shah**, Syed Dilnawaz Ahmad, Zafar Saied Saifi and Darakhshan Jabeen Haleem 2010. Possible Anxiolytic profile of aqueous extracts of a medicinal plant Sea buckthorn (*Hippophae rhamnoides* L. in experimental models. Pakistan Journal of Botany Vol. 41 (6): 2791-2800. Impact Factor: 0.5
18. **Asad Hussain Shah**, Syed Dilnawaz Ahmad, Ishtiaque Khaliq, Farhat Batool, Lutful Hassan And Stephen R. Pearce (2009). Evaluation of Phylogenetic

- Relationship Among Sea Buckthorn (*Hippophae Rhamnoides* L Spp. *Turkestanica*) Wild Ecotypes From Pakistan Using Amplified Fragment Length Polymorphism (Aflp). *Pak J. Bot.* 41 (5) 2419-2426. (Impact Factor 0.5)
19. M.Kaleem Abbasi, Majid Mehmood Tahir, **Asad Hussain Shah** and Farhat Batool. *Mineral Nutrient Composition of Different Ecotypes of White Clover and Their Nutrient Credit to Soil at Rawalakot Azad Jammu and Kashmir. Pakistan Journal of Botany* 41:1 41-51, 2009. (Impact Factor 0.5)
  20. Hussain A, L Hassan, AK Patwari, SD Ahmad, **AH Shah** and F. Batool (2009). Establishment of a suitable and reproducible protocol for in vitro regeneration of ginger (*Zingiber officinale* Roscoe). *Pak J. Bot* 42(2) 1065-1074. (Impact Factor 0.5)
  21. Sultana A, L Hassan, SD Ahmad, **AH Shah**, F Batool, MA Asalam, R Rehman S mahmood (2009). In vitro regeneration of Ginger using leaf, shoot tip and root explants. *Pak. J. Bot.* 41 (4): 1667-1676
  22. Shazia Arif, Syed Dilnawaz Ahmad, **Asad Hussain Shah**, Lutful hassan, Shahid Iqbal Awan and Farhat Batool (2009). Determination of optimum harvesting times for vitamin C, Oil and mineral elements in Sea Buckthorn (*Hippophae rhamnoides* L.) berries. *Pak.J. Bot.* 42(5) 6561-6568(Impact Factor 0.5)
  23. Khan MMA, L Hassan, SD Ahmad, **AH Shah** and F Batool (2009). In vitro regeneration potentiality of oil seed Brassica genotypes with differential BAP concentration. *Pak J Bot.* 41 (3): 1233-1239 (Impact Factor 0.5)
  24. Batool F, **AH Shah**, SD Ahmad and DJ Haleem (2009). Oral supplementation. of sea buckthorn fruity extract modifies haloperidol induced behavioral deficits and increases brain serotonin metabolism. *J Food & drug Analysis* 17(4), 1-8. (Impact Factor 0.471)
  25. Maqsood Qamar, S. Dilnawaz Ahmad, **Asad Hussain Shah**, Colin R.Wellings And Farhat Batool (2008). Postulation of Stripe Rust Resistant Genes In Some Australian Bread Wheat Cultivars And Their Response To Temperature. *Pak. J. Bot.*, 40(6): 2573-2585. (Impact Factor 0.47)
  26. **Asad HS**, SD Ahmed, SM Sabir, S Arif,I Kahliq and F Batool (2007). Biochemical and nutritional evaluations of sea buckthorn (*Hippophae rhamnoides* l. spp. *turkestanica*) from different locations of Pakistan. *Pak J Bot* 39 (9) 2059-2065. (Impact Factor 0.47)
  27. Ahmad SD, Khaliq A, and **Shah AH (2007)**. Evaluation of Potato cultivars for true seed production potential and genetic variability under climatic conditions of Rawalakot Azad Kashmir, Pakistan. *Bangladesh J Agric. Sci.* 34(2): 141-146.
  28. Ahmad SD, M Sabir J Mir and **AH Shah** (2005). Genetic and biochemical variability in Autumn olive (*Elaeagnus. umbellata* Thunb.) a multipurpose plant from Himalayan regions of Pakistan. *Acta Botanica Crotica.* 64 (1), 121-128.
  29. **Shah AH**, MF Khan, D Ahmad and M Sabir (2005) Comparative Studies of Mountain Maize (*Zea mays* L.) ecotypes in Kotli District, Azad Kashmir, Pakistan. *Int. J Biodiver. Sci. Manage* 1, 129-133.
  30. Sabir, SM, H Maqsood, SD Ahmad, **AH Shah** and MQ Khan (2005). Chemical and nutritional constituents of Sea buckthorn (*Hyppophae rhamnoides* ssp.



- Turkestanica*) berries from Pakistani. Italian J. Food Sci. 4(17), 455-462. (Impact Factor 0.45)
31. **A.H Shah**, M.F Khan and A. Khaliq Genetic Characterization of Some Maize (*Zea mays* L.) Varieties Using SDS-PAGE. *Asian Journal of Plant Sciences* (2003)
  32. Khan M.F., T.M Khatak and **H.S Asad**. Evaluation of Maize (*Zea mays* L) Hybrid Genotype against Environmental Conditions of District Rawalakot, Azad Kashmir. *Asian Journal of Plant Sciences Vol.2 (11);(2003)*
  33. Khan M.F, **A.H Shah** and M. Hussain. Studies of Some Hexaploid Wheat varieties (*Triticum aestivum* L.) under the Agro-ecological Conditions of District Poonch, Azad Kashmir. *Pakistan Journal of Agronomy* 1(4) 110-111, 2002.

#### **Abstracts/Proceedings/Conferences:**

1. Sammaya Jannat, Ghosia Bashir, S. Kabir, S.D Ahmad and **Asad Hussain Shah** 2012. Molecular Characterization of Common beans (*Phaseolus vulgaris* L) ecotypes by using SDS-PAGE. Agriculture and Food Security Issues in Global Environmental Perspectives. International Science Conference held at Faculty of Agriculture, The University of Poonch Rawalakot Azad Jammu and Kashmir, from 11-13 July 2012.
2. S. Arif, S.D Ahmad, R. Khan, Asad Hussain Shah et al., Isolation, cloning and Sequencing of Vitamin A, Vitamin C, and Folate Genes from Sea buckthorn (*Hippophae rhamnoides* L ssp. *Sinensis*) leaves and fruit berries. 2012. Agriculture and Food Security Issues in Global Environmental Perspectives. International Science Conference held at Faculty of Agriculture, The University of Poonch Rawalakot Azad Jammu and Kashmir, from 11-13 July 2012.
3. Sammaya Jannat, S.M. Sabir, M. Azad and **Asad Hussain Shah** 2012. Total phenolics and anti oxidant activity in common beans (*Phaseolus vulgaris* L) land races from Azad Jammu and Kashmir. Agriculture and Food Security Issues in Global Environmental Perspectives. International Science Conference held at Faculty of Agriculture, The University of Poonch Rawalakot Azad Jammu and Kashmir, from 11-13 July 2012.
4. S. R Abbas, S.D Ahmad, **A. H Shah** et al., 2012. Shoot Multiplication in Sugar Cane genotypes with Cytokinin. Agriculture and Food Security Issues in Global Environmental Perspectives. International Science Conference held at Faculty of Agriculture, The University of Poonch Rawalakot Azad Jammu and Kashmir, from 11-13 July 2012.
5. R. H Shah, S.M Sabir, S.D Ahmad, K. Azad and **Asad Hussain Shah** 2012. Evaluation of Phytochemistry and anti oxidant potential of Amla (*Phyllanthus embillica*) ecotypes from Azad Jammu and Kashmir. Agriculture and Food Security Issues in Global Environmental Perspectives. International Science Conference held at Faculty

of Agriculture, The University of Poonch Rawalakot Azad Jammu and Kashmir, from 11-13 July 2012.

6. S. R Abbas, S.D Ahamad, **A.H Shah** and S.M Sabir 2012. A rapid DNA extraction method from plants using "PEG". Agriculture and Food Security Issues in Global Environmental Perspectives. International Science Conference held at Faculty of Agriculture, The University of Poonch Rawalakot Azad Jammu and Kashmir, from 11-13 July 2012.
7. S.R Abbas, S.D Ahmad, S.M Sabir, **A.H Shah** et al., 2012. Antioxidant activity, repair and tolerance of oxidative DNA in different cultivars of Sugar cane (*Saccharum officinarum*). Agriculture and Food Security Issues in Global Environmental Perspectives. International Science Conference held at Faculty of Agriculture, The University of Poonch Rawalakot Azad Jammu and Kashmir, from 11-13 July 2012
8. M. Azad, S.D Ahmad, S.I Awan, **Asad Hussain Shah** et al., 2012. Assessment of chlorophyll contents in Wheat (*Triticum aestivum* L.) Agriculture and Food Security Issues in Global Environmental Perspectives. International Science Conference held at Faculty of Agriculture, The University of Poonch Rawalakot Azad Jammu and Kashmir, from 11-13 July 2012.
9. S. Jannat, S. Kabir, M. Azad, A. Ghafoor, S. D Ahmad, S.I Awan and **Asad Hussain Shah** 2012. Evaluation of Seed Characteristics of Common beans (*Phaseolus vulgaris* L) germplasm. Agriculture and Food Security Issues in Global Environmental Perspectives. International Science Conference held at Faculty of Agriculture, The University of Poonch Rawalakot Azad Jammu and Kashmir, from 11-13 July 2012.
10. M. M Ahmad, S.I Awan, and **Asad Hussain Shah** 2012. Correlation analysis for the double haploid of wheat (*Triticum aestivum* L.) Agriculture and Food Security Issues in Global Environmental Perspectives. International Science Conference held at Faculty of Agriculture, The University of Poonch Rawalakot Azad Jammu and Kashmir, from 11-13 July 2012.
11. Ghassan Zahid, S.D Ahmad, S.I Awan, **A.H Shah** et al. 2012. Detecting of Slow rusting genes in Fifty genotypes of Wheat (*Triticum aestivum* L) through molecular markers. Agriculture and Food Security Issues in Global Environmental Perspectives. International Science Conference held at Faculty of Agriculture, The University of Poonch Rawalakot Azad Jammu and Kashmir, from 11-13 July 2012.
12. **Asad Hussain Shah**. S.D. Ahmad S. Arif, S.M Sabir, S. Jannat and F. Batool 2011. Sea buckthorn (*Hippophae rhamnoides* L) biodiversity for sustainable development in Mountain Areas. International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.
13. **Asad Hussain shah**, S. Jannat, S.D Ahamd, S. M Sabir et al., 2011. Diversity in Common beans (*Phaseolus vulgaris* L ) land races using protein figure printing

- techniques. International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.
14. Shazia A, S.D Ahmad, Asad Hussain Shah and Farhat Batool 2011. Establishment of protocol for isolation of good quality mRNA from Sea buckthorn berries rich in secondary metabolites. International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.
  15. S. Jannat, **Asad Hussain Shah** et al., 2011. Genetic Diversity in Common beans (*Phaseolus vulgaris*) in Azad Kashmir. International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.
  16. S. R Abbas, S.D Ahmad, **A.H Shah** et al., 2011. In vitro bulb production of gladiolus in MS Stress Media. International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.
  17. S.R Abbas, S.D Ahmad, S. A Khan, F. Khan, **A. H Shah** and S.I Awan 2011. In-vitro flowering of Brassica napus in MS Stress Media. International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.
  18. S. Ashraf, S.D Ahmad, **A.H Shah** et al., 2011. Establishment of protocol for micropropagation of Olive (*Olea europia*). International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.
  19. Farhat. Batool, **Asad Hussain Shah**, S.D Ahmad, et al., Antidepressant –like effects of aqueous fruit extract from autumn olive (*eleagnus umbelleta*) following exposure to repeated resistant stress in experimental animals. 2011. International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.
  20. Farhat Batool, **Asad Hussain Shah**, S. D Ahmad et al., 2011. Stress Induced behavioural deficits in experimental models of depression are prevented by antidepressant like treatment with Sea buckthorn (*Hippophae rhamnoides* L) fruits. International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.
  21. M. M. Ahmad, S.I Awan, S. D Ahmad, **Asad Hussain Shah** et al., 2011. Assessment drought tolerance in haploids of Wheat (*Triticum aestivum* L). 2011. International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.
  22. S. Ali, S. Hafeez, M. Ilyas, M.F Khan, Asad Hussain Shah and S.I Awan. 2011. Genetic parameters in wheat genotypes for early vigour traits under different water regimes.

International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.

23. A. Rao, S.D. Ahamd, S.M Sabir, M.F Khan, S.I Awan, **Asad Hussain Shah** et al., 2011. Determination of DPPH radical oxidation in Wheat under salt induced stress. International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.
24. S. I Awan, S. D Ahmad, S. Ali, **Asad Hussain Shah** et al., 2011. Ruts as a constant threat to Wheat Production. International Science Conference held at Faculty of Agriculture Rawalakot, The University of Azad Jammu and Kashmir on "Prospects and Challenges to Sustainable Agriculture" from 14-16<sup>th</sup> July 2011.
25. **Asad Hussain Shah**, Syed Dilnawaz Ahmad, Shazia Arif, Farhat Batool and Shaid Iqbal Awan 2010. Evaluation of morphological, Biochemical and Molecular Diversity among Sea buckthorn (*Hippophae rhamnoides*) wild ecotypes from Northern Areas of Pakistan. International Science Conference on Utilization of Modern Agriculture Technology in Changing Environmental Perspectives, held at Faculty of Agriculture Rawalakot on July 21-23 2010.
26. Sammiya Jannat, **Asad Hussain Shah**, Syed Dilnawaz Ahmad, Shahid Iqbal Awan and Abdul Ghafoor. 2010. Genetic and Biochemical Diversity of Common Beans (*Phaseolus vulgaris*) Land races from Azad Jammu and Kashmir. International Science Conference on Utilization of Modern Agriculture Technology in Changing Environmental Perspectives, held at Faculty of Agriculture Rawalakot on July 21-23 2010
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