

CURRICULUM VITAE

PROF. DR. MAQSOOD AHMED

Chairman Department of Biotechnology
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Date of Birth: May 12, 1961
Citizenship: Kashmiri (Pakistan)
CNIC Number: 821102-0259936-5

Academic Qualifications

Post Doctorate	College of Agriculture & Biotechnology University of Zhejiang, China.	2012-13
Ph.D. Horticultural Biotechnology	BZU, Multan, Pakistan/University of Sussex, Brighton UK.	2008
M.Sc. (Hons) Horticulture	University of Agriculture Faisalabad- Pakistan.	1992
B.Sc. (Hons) Agriculture Horticulture	University of Azad Jammu & Kashmir	1986

Doctoral and Post Doctoral Research Topics

Dissertation (Ph.D.): Biodiversity in pears (*Pyrus spp.*): Characterization and Conservation of Germplasm from Azad Jammu and Kashmir”

Post Doctoral Research: Molecular Phylogeography of *Pyrus* populations in the South Asia

Research Publications (Impact Factor)

1. Sayed Hussain, Yuanwen Teng, Abdul Hamid, Syed Zulfiqar Ali Shah, Abrar Hussain Shah, Abid Yaqoob, Tahir Ali, **Maqsood Ahmed**, Imtiaz Hussain, Uzma Arif. 2016. Carbohydrate changes during dormancy release in floral, vegetative buds and bark tissues

- of pear cultivar 'Wonhwang' cuttings following dormancy breaking agents treatment. *International Journal of Environmental & Agriculture Research*. 2(3):53-64. (IF=1.23)
2. Shuang Jiang, Xiaoyan Zheng, Peiyuan Yu, Xiaoyan Yue, **Maqsood Ahmed**, Danying Cai, Yuanwen Teng. 2016. Primitive Genepools of Asian Pears and Their Complex Hybrid Origins Inferred from Fluorescent Sequence-Specific Amplification Polymorphism (SSAP) Markers Based on LTR Retrotransposons. *PLoS ONE*. 11(2): e0149192.doi:10.1371/journal.pone.0149192. (IF=3.23)
 3. Sayed, H., Guoqin, L., Dongfen, L., **Maqsood A.**, Nazim H. and Yuanwen, T. 2015. Study on the expression of dehydrin genes and activities of antioxidative enzymes in floral buds of two sand pear (*Pyrus pyrifolia* Nakai) cultivars requiring different chilling hours for bud break. *Turkish Journal of Agriculture Forest*. doi:10.3906/tar-1407-164. (IF=0.929)
 4. Hajra, N., **Maqsood, A.**, Sajjad, H., Muhammad, A. A. 2015. Biodiversity in morpho-physiological characteristics of indigenous plum germplasm from Azad Jammu and Kashmir, Pakistan. *Zemdirbyste-Agriculture*. 102(4):423-430. (IF=0.420)
 5. Hajra, N., **Maqsood, A.**, Muhammad, A. A. and Sajjad, H. 2015. Genetic diversity in fruit nutritional composition, anthocyanins, phenolics and antioxidant capacity of plum (*prunus domestica*) genotypes. *Acta Scientiarum Polonorum Horticulture*. 14(1), 45-61. (IF=0.52)
 6. Nadra, K., **Maqssod, A.**, Ishfaq, H., Nadeem, A., Shagef E. and Muhammad A. A. 2015. Optimizing the concentrations o plant growth regulators for *in vitro* shoot cultures, callus induction and shoot regeneration from calluses of grapes. *Journal International des Sciences de la Vigne et du Vin*. 49:37-45. (IF=0.625)
 7. **Maqsood, A.**, Muhammad, A. A., Kashif, K. and Sajjad, H. 2014. Biodiversity in morphological and physico-chemical characteristics of wild raspberry (*rubusidaeusl.*) germplasm collected from temperate region of Azad Jammu & Kashmir (Pakistan). *Acta Scientiarum Polonorum Horticulture*. 13(4):117-134. (IF=0.52)
 8. **Maqsood, A.**, Muhammad, A. A., Raja, M., Muazzam, N., Muhammad, R. K. and Sajjad, H. 2013. Characterization of indigenous barberry germplasm: variability in morphological characteristics and nutritional composition. *Fruit*. Vol. 68(5): 409-422. (IF=0.773)
 9. **Maqsood, A.**, Syed, M. S., Muhammad, Q. and Muhammad R. 2013. Nutritional analysis and in-vitro antioxidant activity of apple (*Malus domestica*). *Journal of Food, Agriculture & Environment*. 11 (3-4):168-172. (IF=0.44)
 10. Fahmida, M. A., Mohsin, Z., Abdul H., **Maqsood, A.**, Abdul, K., Muhammad, R. K. and Zahid, R. 2013. Interactive effect of cobalt and nitrogen on growth, nodulation, yield and protein content of field grown pea. *Horticulture, Environment and Biotechnology*. 54(6):465-474. (IF=0.319)
 11. **Maqsood, A.**, Anjum, M. A., Shinwari, Z. K. and Rubbani, M. A. 2011. Assessment of variability in fruit quality parameters of *Pyrus* germplasm collected from Azad Jammu and Kashmir (Pakistan). *Pakistan Journal of Botany*. 43(2): 67-71. (IF=0.52)

12. **Maqsood, A.**, Anjum, M. A., Ahmed, M. J., Sajid, G. M., Yoqub, A. 2011. Role of plant growth regulators in preservation of *Pyrus* germplasm *in vitro*. *African Journal of Biotechnology*. 10 (64):14029-14037. (IF=0.52)
13. **Maqsood, A.**, Anjum, M. A., Khan, M. Q., Ahmed, M. J. and Pearce, S. 2010. Evaluation of genetic diversity in *Pyrus* germplasm native to Azad Jammu and Kashmir (Northern Pakistan) revealed by microsatellite markers. *African Journal of Biotechnology*. 9:8323-8333. (IF=0.565)
14. **Maqsood, A.** and Anjum, M. A. 2010. *In vitro* storage of some pear genotypes with minimal growth technique. *Turkish Journal of Agriculture and Forestry*. 34:25-32. (IF=0.65)
15. **Maqsood, A.**, Anjum, M. A. and Hussain, A. H. 2010. *In vitro* preservation of *Pyrus* germplasm with minimal growth using different temperature regimes. *Pakistan Journal of Botany*. 42:1639-1650. (IF=0.52)
16. Nagina, R., Awan, M. S., Rathore, H. A., Gardezi, D. A., **Maqsood, A.**, Tariq, M. and Rajoka, M. I. 2010. Kinetics of endoglucanase and cellobiohydrolase production by parent and mutant derivative of moderately thermotolerant *Bacillus subtilis* GQ 301542 on optimized medium. *African Journal of Biotechnology*. 9:7531-7538. (IF=0.565).
17. **Maqsood, A.**, Anjum, M. A., Ashiq, H. R. and Lutful, H. 2009. Characterization of indigenous *Pyrus* germplasm from Azad Jammu and Kashmir revealed by SDS-PAGE analysis. *African Journal of Biotechnology*. 8:6442-6452. (IF=0.565).

Research Publications (HEC Recognized/National)

1. Muhammad, S. I., Mohsin, Z. and **Maqsood, A.** 2014. Determination of heavy metals from table poultry eggs in Peshawar Pakistan. *Journal of Pharmacognosy and Phytochemistry*. 3(3):64-67.
2. Jamil, M. A., **Maqsood, A.**, Bashir, T., Yaqoob, A. and Jillani, M. S. 2010. Effect of plant spacing and reproductive growth of gladiolus cultivars. *Sarhad Journal of Agriculture*. 26(40):539-543.
3. Hamid, A., **Maqsood, A.**, Hussain, A. and Monakhos, G.F. 2010. Self incompatibility and seed setting through heterogamic 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*. 26(1):1-5.
4. Hamid, A., **Maqsood, A.**, Kayani, F. and Farooq, A. 2005. Performance of tomato varieties for growth and yield under Rawalakot conditions. *Sarhad Journal of Agriculture*. 21:201-203.
5. Hamid, A., **Maqsood, A.**, Farooq, A. and Kayani, F. 2005. Growth and yield performance of four cauliflower cultivars under the agro-climatic conditions of Rawalakot, Azad Jammu & Kashmir. *Bioscience Research*. 2:56-60.

6. Hamid, A., **Maqsood, A.**, Shagufta, G. and Mohsin, Q. 2003. Production of white head cabbage under the agro-climatic conditions of Rawalakot. *Pakistan Journal of Seed Technology*. 1:33-41.
7. Hussain, I., Asif, M., **Maqsood, A.**, Khan, M. and Shakir, I. 2004. Effect of uni-packaging on the post-harvest behavior of citrus fruit in NWFP. *Pakistan Journal of Nutrition*. 3: 336-339.
8. **Maqsood, A.**, Fareed, M. K., Hamid, A. and Altaf, H. 2004. Effect of Urea, DAP and FYM on growth and Flowering of Dahlia (*Dahiavariabilis*). *International Journal of Agriculture and Biology*, 6:393-395.
9. **Maqsood, A.**, Hamid, A. and Akbar, Z. 2004. Growth and yield performance of six cucumber (*Cucumissativas* L.) cultivars under agro-climatic conditions of Rawalakot, Azad Jammu & Kashmir. *International Journal of Agriculture and Biology* 2:396-399.
10. **Maqsood, A.**, Wajeeha, A. and Altaf, H. 2004. Performance of some potato (*Solanum tuberosum*) cultivars under Rawalakot conditions. *Pakistan Journal of Scientific Research*. 56:1-2.
11. **Maqsood, A.**, Hamid, A., Hussain, A. and Khalid, M. 2004. Comparative study of some apple cultivars with different propagation techniques. *Pakistan Journal of Scientific Research*. 46:9-12.
12. **Maqsood, A.**, Wajeeha, A. and Imtiaz, H. 2003. Effect of coating and wrapping materials on physico-chemical characteristics of kinnow (*Citrus reticulata*) during storage at room temperature. *Journal of Animal and Plant Sciences*. 13:77-79.
13. **Maqsood, A.**, Hamid, A., Samad, U.T. and Ashraf, M. 2004. Evaluation of two peas (*Pisumsativum* L.) cultivars sown at different dates under agro-climatic conditions of Rawalakot. *Pakistan Journal of Arid Agriculture*. 7:49-53.
14. Yusuf, A., Zulfiqar, A. S., **Maqsood, A.**, Saleem, A. and Kafeel, A. 1993 Effect of different concentration of IBA on the initiation of roots in hybrid tea rose. *Pakistan Journal of Scientific Research*. 45:83-87.
15. Yusuf, A., Kaleem, A., **Maqsood, A.** and Wang, P. 1993. Effect of external salinity on ionic uptake of different tomato genotypes produced by tissue culture. *Journal of Agricultural Research*. 31:261-267.
16. Zulfiqar, A. S., Yusuf, A., Saleem A., **Ahmed, M.** and Zulfiqar, A. 1994. Effect of planting distance on potato yield at higher altitude. *Journal of Agricultural Research*. 32: 515-518.

Internationally Published Books

- 1) **Maqsood Ahmed**, Mohib R., Muhammad Tariq Rafiq and Hajra Nisar. (2013). Exploration and characterization of native medicinal and aromatic plants: exploration survey and characterization of medicinal and aromatic plants from Poonch Division of AJK- Pakistan. Book project ISBN. 85561- LAMBERT, Academic Publishing.,

- 2) **Maqsood Ahmed**, M. Akbar Anjum and Yuanwen Teng. (2013). Pyrus Germplasm of Kashmir-Pakistan: Present status of pear in Azad Jammu & Kashmir and current research with reference to nutritional values. ISBN. 978-3-659-42257-7., LAMBERT, Academic Publishing.
- 3) **Maqsood Ahmed**, M. Akbar Anjum and M. Azam. (2013). Biodiversity in Pyrus Genotypes: Characterization based on protein (SDS-PAE), and Microsatellite (SSR) Markers From Azad Jammu & Kashmir-Pakistan. ISBN: 978-3-659-38378-6, LAMBERT, Academic Publishing.
- 4) **Maqsood Ahmed**, M. Akbar Anjum and M. Azam (2013). Conservation of Biodiversity in Pyrus Germplasm: Conservation in vitro and in vivo techniques. ISBN. 978-3-659-40327-9., LAMBERT, Academic Publishing.
- 5) **Maqsood Ahmed**, Muhammad Jamil and Yuanwen Teng (2013). Plant Biotechnological Lab Manual.

Distinctions, Honors & Awards

- ✚ - Higher Education Commission (HEC) approved supervisor from 2009 to date.
- ✚ - Awarded Post-Doctoral Fellowship from Higher Education Commission Pakistan, for one year (2012-13) for China.
- ✚ - Excellent Researcher award for publishing Impact factor International research papers during 2009-2010, by Vice Chancellor of Azad Jammu & Kashmir University in December, 2010.
- ✚ - International Research Support Initiative Program (IRSIP) Scholarship for PhD studies in UK, from Higher Education Commission, Pakistan (Feb-August 2007).
- ✚ - Evaluation of genetic diversity in Pyrus germplasm native to Azad Jammu & Kashmir (Northern Pakistan) by using microsatellite markers by Stephen Pearce lecturer of School of Life Sciences, Department of Biological Sciences, University of Sussex, Brighton, East Sussex, UK. (31.02.2007-06.08.2007) funded by HEC under IRSIP, Pakistan
- ✚ Certificate for presentation of research papers in two International Conferences held at Faculty of Agriculture, Rawalakot University of Azad Jammu & Kashmir on August 11-13, 2009 and July 21-23, 2010.
- ✚ M.Phil and Ph.D thesis reviewer of Bahuddin Zakriya University Multan, PMAS-Arid Agriculture University Rawalpindi and Poonch University Rawalakot AJK.

✚ Paper setter of Poonch University Rawalakot Azad Kashmir.

Current Administrative/Academic Responsibilities

- **Chairman**, Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur AJK from April 15, 2015 to date.
- **Member of senate**, University of Poonch Azad Kashmir from May 2015 to date.
- **Member of Syndicate**, Mirpur University of Science and Technology (MUST), Mirpur AJK.
- **Professor**, Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur AJK from July 1st, 2012 to date.
- **Member Board of Faculty of Sciences**, Mirpur University of Science and Technology (MUST), Mirpur AJK.
- **Member Board of Academic Council**, Mirpur University of Science and Technology (MUST), Mirpur AJK.
- **Chairman Board of Studies**, Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur AJK from 2015 -to date
- **Chairman Assesment Team**, Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur AJK from July 7, 2015 to date
- **Chairman Program Team**, Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur AJK from April 15., 2015 to date
- **Chairman Purchase Committee**, Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur AJK from April. 10. 2015 to date
- **Chairman Examination Committee**, Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur AJK from July 30th 2015 to date
- **Chairman Discipline Committee**, Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur AJK from August 2015.
- **Member Advance Studies & Research Board** from April 16, 2015 to date.

Administrative / Academic Responsibilities Held in Past

- **Director Advance Studies & Research Board**, Mirpur University of Science & Technology (MUST), Mirpur AJK from Feb 2014 to Sep 2015.

- **Chairman** Department of Horticulture, Faculty of Agriculture, University of Azad Jammu & Kashmir, Rawalakot from October 2010 to June 2012.
- **Member Academic Council** University of Azad Jammu & Kashmir (2009-2012, AJK University, Rawalakot)
- **Member Advanced Studies & Research Board**, University of Azad Jammu & Kashmir Rawalakot campus from 2009-2012
- **Member Finance and Planning Committee**, University of Azad Jammu & Kashmir Rawalakot campus.
- **Member Student Merit Scholarship Committee**, University of Azad Jammu & Kashmir Rawalakot campus from 2009 – 2012.
- **Member Post Graduate Synopsis Committee**, University of Azad Jammu & Kashmir Rawalakot campus from 2009-2012.
- **Chairman Subject Allotment Committee**, University of Azad Jammu & Kashmir Rawalakot campus from 2009-2012.
- **Member of Admission Committee**, of postgraduate students, University of Azad Jammu & Kashmir Rawalakot campus from 2009-2012.

Academic and Professional Carrier

- **Professor**, Department of Biotechnology, Mirpur University of Science & Technology (MUST), Mirpur Azad Kashmir from 1st July 2012 to present.
- **Professor**, Department of Horticulture, University of Azad Jammu & Kashmir Rawalakot campus from Oct 2010-30th June 2012.
- **Associate Professor**, Department of Horticulture, Faculty of Agriculture of Agriculture, Rawalakot, Azad Kashmir from August 2004 to October 2010.
- **Assistant Professor**, Department of Horticulture, Faculty of Agriculture of Agriculture, Rawalakot Azad Kashmir from August 1994 to August 2004.
- **Lecturer** Department of Horticulture, Faculty of Agriculture, of Agriculture Rawalakot, Azad Kashmir from May 1987–August 1994.

Conferences/Workshops Participation and Presentations

- Participated as Guest Speaker in the “Invention to Innovation Summit-2015” Organized by Haripur University, Haripur KPK from November 4-5, 2015
- Participated in the “Training on Intellectual Property Rights” organized by HEC, Pakistan at Islamabad on May 01-02, 2015.
- Participated in the “International Conference on Citriculture” held at BahauddinZakariya University (BZU), Multan as a guest speaker on 11-13 Feb. 2015.
- Participated in the “Invention to Innovation Summit 2015” organized jointly by Pakistan Science Foundation (PSF), University of The Punjab (PU), Lahore and University of Management & Technology (UMT), Lahore on 4-5 March, 2015.
- International Training on “High Quality Fruit Production Techniques in Efficient and Safe way for Developing country” held at Xingcheng, China from 25th June, 2014 to 11th July, 2014.
- Participation and oral presentation on “Co-Efficient of variability, Correlation and Path analysis for some Biochemical Traits in Tomato for Commercial exploitation” presented as a resource person in the 5th International Conference on Agriculture, Food Security and Climate Change” organised by Faculty of Agriculture, The University of Poonch, Rawalakot AJK, on 09-09-2014 to 11-09-2014.
- Presentation in seminar on “Prospects of Horticultural Industry in Pakistan” held by College of Agriculture and Biotechnology, Zhejiang University, China on 21-06-2013.
- Presentation on “Prospects of collaborative research between two friend countries (Pakistan and China) on Molecular phytogeography of *Pyrus* populations in the South Asia and collaborative research on *Pyrus* Germplasm between Mirpur University of Science & Technology (MUST), Mirpur and Zhejiang University, China” held by College of Agriculture and Biotechnology, Zhejiang University, China on 21-06-2013.
- Participation and oral Presentation on “Biodiversity in indigenous germplasm of two soft fruits for horticulture and nutritional importance” in “National Symposium on Biodiversity of Pakistan” held at Islamabad on 7-9th June, 2011.
- Participation and oral presentation on “Studies on Genetic Variability and Interrelationship among tomato genotypes by using agronomic and SDS- PAGE markers” in the International Conference on “Prospects and Challenged to Sustainable Agriculture” at Faculty of Agriculture, Rawalakot, held on 14-16th July, 2011.
- Participation and presentation on “Collection and Identification of Medicinal and Aromatic plants from Azad Jammu and Kashmir” in National workshop on “Conservation and

Sustainable utilization of Medicinal and aromatic plants from Azad Jammu & Kashmir” held at NARC. Islamabad on 4-6th October, 2011.

- Participation and presentation on “Genetic evaluation of Pyrus Germplasm from Azad Jammu and Kashmir revealed by Microsatellite marker” in International Science Conference on “Utilization of Modern Agriculture Technology in Changing Environmental Perspectives” held at Faculty of Agriculture, Rawalakot, The University of Azad Jammu & Kashmir on 21-23 July, 2010.
- Participation and presentation on “In vitro preservation of Pyrus Germplasm from Azad Jammu & Kashmir by using various slow growth Techniques” in International Conference “Advances in Agriculture: Prospects and Potentials of Natural Resources in Food Security” held at Faculty of Agriculture, Rawalakot, The University of Azad Jammu & Kashmir on 11-13 August, 2009.
- Participation in one day workshop on “Self Assessment of Academic Programmes” Organized by University of Azad Jammu & Kashmir, Quality Enhancement Cell on 30th, May, 2006.
- Participation in “ International Training Workshop on Bimolecular Techniques” July 10-15-2006 held at Department of Biochemistry, Arid Agriculture University, Rawalpindi, Pakistan.
- Participated in the 9th training course on “Use of nuclear and other advanced techniques in food and agricultural research” held under “Nuclear Institute of Food and Agriculture (NIFA), Peshawar” on October 11–22, 1992 at NIFA, Tarnab, Peshawar.
- Participate in Training Course on “Teaching Methodology” under International Agriculture Training Program from November 16–24, 1991 held at University College of Agriculture, Rawalakot, Azad Kashmir Pakistan.
- Presentation of two research papers in an International Conference on “Advances in Agriculture: Prospects & Potentials of Natural Resources in Food Security entitled as:
 - Characterization of variability in the native population of Pyrus germplasm in Azad Jammu & Kashmir”
 - *In vitro* preservation of Pyrus germplasm with minimal growth through reduced temperatures

Training Workshops

- ◆ Participated in the “Training on Intellectual Property Rights” organized by HEC, Pakistan at Islamabad on May 01-02, 2015.
- ◆ International Training on “High Quality Fruit Production Techniques in Efficient and Safe way for Developing country” held at Xingcheng, China from 25th June, 2014 to 11th July, 2014.
- ◆ Participation in “ International Training Workshop on Bimolecular Techniques” July 10-15-2006 held at Department of Biochemistry, Arid Agriculture University, Rawalpindi, Pakistan
- ◆ Participated in the 9th training course on “Use of nuclear and other advanced techniques in food and agricultural research” held under “Nuclear Institute of Food and Agriculture (NIFA), Peshawar” on October 11–22, 1992 at NIFA, Tarnab, Peshawar.
- ◆ Training Course on “Teaching Methodology” under International Agriculture Training Program from November 16–24, 1991 held at University College of Agriculture, Rawalakot, Azad Kashmir Pakistan

Seminar Delivered

Papers presented on weekly organized seminar at Faculty of Agriculture Rawalakot on:

- Exploration and conservation of wild small fruits from mountainous region of Azad Jammu & Kashmir
- Characterization and identification of medicinal plant from temperate zone of Azad Kashmir
- Special lectures delivered to graduate and postgraduate students horticulture department on tissue culture techniques

M.Phil/ M. Sc (Hons) Students Supervised

S.N	NAME	YEAR	TITLE OF THESIS
1.	Zakiya Tabassum	2015	Heavy metal contents in milk of cow, goat, buffalo and sheep collected from Mirpur and Bhimber, AJK.
2.	Shaista Shahzad	2015	Studies of antioxidant residue oxytetracycline in milk

			collected from Mirpur and Bhimber, AJK.
3.	Madiha Nazir	2015	Morphological, antioxidant, phytochemical analysis and antidiabetic effect of <i>Aloe vera</i> collected from Bhimber, Azad Jammu and Kashmir.
4.	Muhammad Jamil Malik	2014	Treatment of alloxan induced diabetic rabbits with hydroethanolic extract of <i>Justica adhatoda</i> leaves.
5.	Aamer Mushtaq	2014	Therapeutic potential of Hydroethanolic Extract of <i>Nerium oleander</i> flowers to check the antidiabetic activity.
6.	Madiha Mahroof	2013	Screening of Tylosin residues in chicken by using microbial assay and TLC
7.	Ayesha Razzaq	2013	Screening of oxytetracycline residues in chicken by using microbial assay and TLC
8.	Samina Akbar	2013	Screening of Amoxillin residues in chicken by using microbial assay and TLC
9.	Nadeem Fazal	2012	Growth and biochemical responses of okra to phosphorus sources supplemented with humic acid
10.	Hajira Nisar	2012	Morpho-Chemical Diversity Among Indigenous Germplasm Of Genus Prunus (Plum)
11.	M. Attique-Ur-Rehman	2011	Variability in physico-chemical characteristics of mango (<i>Mangifera indica</i> L.) Genotypes grown in different locations of district bhimber , azad jammu and kashmir
12.	Qaisar Shabbir	2011	Physico-chemical and antioxidant properties of apple (<i>Malus domestica</i> Borkh) genotypes grown in temperate region of azad jammu and kashmir.
13.	Nadra Khan	2011	Developing Protocol For Genetic Transformation Of Grapes (<i>Vitis Vinifera</i>) King, S Ruby C.V
14.	Kashif Khaqan	2011	Physico-chemical characterization of indigenous germplasm of two soft fruits for horticulture and nutritional importance

15.	Salma Anjum	2011	Studies on Genetic Variability and Interrelationship among tomato genotypes by using agronomic and SDS-PAGE markers
16.	Abid Yaqub	1999	Comparative study of some apple cultivars with different propagation techniques.

Ph.D Students Under-supervision

S.N	NAME	ENROLLMENT
01	Abeer Rehman	2014-15
02	Aamer Mushtaq	2014-15
03	Faiza Bashir	2014-15

Research Projects As Principal Investigator

Sr.No	Title of Project	Funding Agency	Amount	Status
01	“Biodiversity in apples (<i>Malus spp.</i>) germplasm: Characterization and Conservation from Azad Jammu and Kashmir”	HEC	5.7 Million	Awarded
02	Exploration and conservation of stone fruit nuts fruit Germplasm in temperate region of Azad Jammu & Kashmir (Northern Pakistan) and their multiplication through conventional techniques for economic return”	PARC (ALP)	1.5 Million	Short listed (Preliminary Approved)
03	Production of virus free potato seed through tissue culture techniques	MUST	0.05 Million	Short listed (Preliminary Approved)

Expertise in Research/Teaching

- I have working experience on Gas Liquid Chromatography (GLC), High Performance Liquid Chromatography (HPLC), Atomic Absorption Spectrophotometer and UV Spectrophotometer.
- I have practical experience of Greenhouse Production of Horticultural Crops and Hydroponics.
- I have been teaching various courses of undergraduate and postgraduate levels in the subject of

Horticulture and can plan and execute research projects independently. Courses taught to Undergraduate and Post-graduate students includes;

- Horticultural Natural Resource Management Msc (Hons) and PhD students
- Characterization of genetic diversity in horticultural plants M.Sc (Hons) and PhD students
- Biodiversity and conservation of horticultural plants M.Sc (Hons) and PhD students
- Tissue culture (Micropropagation) of horticultural plants M.Sc (Hons) and PhD students
- Application of tissue culture in fruit germplasm conservation (*In vitro* preservation) and tissue culture courses M.Sc (Hons) and PhD students
- Basic techniques of molecular biology and biotechnology
- Ecological study of temperate fruit of Azad Jammu Kashmir
- Exploration and preservation of wild medicinal plant species (undergraduate and postgraduate students)
- Environmental horticulture
- Molecular Biology, Tissue culture and Recombinant DNA Technology

Research Interests/ Research Area

Major area of interest: Molecular biology/ Environmental Biotechnology/Crop Technology

a)- Horticulture Crop Technology

- ◆ Horticultural crop production and post harvest techniques
- ◆ Chemical Analysis of fruits

b)- Molecular Biology

Research focusing on characterization and preservation of biodiversity in indigenous germplasm of fruit trees on level of:

- *In-Situ* and *Ex-Situ* characterization
- Morphological and chemical characterization of fruits,
- Electrophoresis techniques, SDS-PAGE and IEF-PAGE for protein analysis
- Molecular biology (PCR, DNA extraction RAPD and SSR)

c)- Tissue Culture

- ➔ Media preparation, tissue sterilization and maintenance (multiplication)
- ➔ Tissue culture and regeneration techniques for apple, pear and small fruits
- ➔ Micro propagation for endangered and resistant fruit genotypes
- ➔ *In vitro* preservation by using minimal growth techniques (reduced incubating temperatures, MS medium, growth regulators and by using growth inhibitors)

General Contributions

- Actively participated in the rehabilitation of the faculty and administrative staff during and after earthquake 2005.
- Substantial contribution in developing and maintaining cohesion among faculty, students and staff community.
- Develop public awareness regarding the academic activities in the Faculty and the University through media talks.
- Keep close liaison among the community representative with regard to deal any students and faculty problem.

Service to Community

- ➔ Provides on-farm technical advices to progressive farmers for the production of Horticultural (Fruits & Vegetables) commodities on their request
- ➔ Being General Secretary, Vice President & President of Academic Staff Association (AJK University), rendering my services for the betterment of their rights.
- ➔ Helps needy students in getting admission at university level
- ➔ Provide students counseling in getting job opportunities and career development.

Professional Societies Membership

- Life member of Pakistan Botanical Society
- Member of Horticulture society of Pakistan

Computer and Languagistic Skills

Computer Skills

- ◆ Microsoft Word

- ◆ MS Excel
- ◆ MS Power Point
- ◆ Basic Computer knowledge

Language Knowledge

- English Excellent level
- Urdu National language
- Punjabi Native language

Manuscripts Under Review

Maqsood. A., Abdul, G., Salma, A., Syed, M. S. and Muhammad, R. K. Co-efficient of Variability, Correlation and Path Analysis for Some Biochemical Traits in Tomato for Commercial Exploitation. *Korean Journal of Horticulture and Biotechnology*.

COUNTRIES VISITED

<u>Year</u>	<u>Duration</u>	<u>Country</u>
2006-07	Six Months	UK
2012- 13	One Year	China

International Collaboration and Memorandum of Understanding (MoU)

- I have submitted a joint collaborative research funding project, on the “collaborative aspect of the Molecular phytogeography of Pyrus populations in the South Asia”. Under proposed project, PhD student of my parent department will enjoy research facilities with Institute of Pomology, Chinese Academy of Agriculture Sciences (CAAS), Xingcheng, Laioning Proviencie, China. Further, all research facilities and guidance will be provided by host Professor. Government would only support to scholar for travelling expenses (air ticket).
- I have got a wonderful oppportunity that I have signed Memorandum of Understanding (MoU) between Mirpur University of Science and Technology (MUST), Azad Jammu and Kashmir with Institute of Pomology, Chinese Academy of Agriculture Sciences (CAAS), Xingcheng, LaioningProviencie, China. Under this collaboration, our students and staff

members may get opportunity for short training, research and sharing of materials with each other. In this linkage program host institution will provide all lab and field training facilities and accommodation.

References

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