

**Laila Fayyaz**  
**056 Plant Science Building**  
**Department of Plant Breeding and Genetics**  
**University of Agriculture Peshawar, 25130**  
**Khyber Pakhtunkhwa, Pakistan**  
[lfayyaz@aup.edu.pk](mailto:lfayyaz@aup.edu.pk)  
[lailafayyaz@yahoo.com](mailto:lailafayyaz@yahoo.com)  
[+92-333-9242474](tel:+92-333-9242474)

---



## **EDUCATION**

### **Ph.D. in Horticulture and Agronomy**

**University of California (UC) Davis, USA, 13<sup>th</sup> December 2019.**

**Dissertation:** Characterization of Grape Germplasm for Powdery Mildew Resistance and the Identification of Candidate Resistant Genes.

**Advisor:** Professor Dr. Andrew M. Walker.

**CGPA:** 3.534/4.0

### **Master of Science in Plant Breeding and Genetics**

**University of Agriculture, Peshawar, Pakistan, 26<sup>th</sup> March 2012.**

**Thesis:** Genetic evaluation of segregating populations in *Oleiferous* Brassica Species. **Advisor:** Professor Dr. Farhatullah.

**CGPA:** 3.95/4.0 (Bronze Medal-Distinction)

### **Bachelor of Science in Plant Breeding and Genetics**

**University of Agriculture Peshawar, Pakistan, 26<sup>th</sup> December 2009.**

**Report:** Genetic diversity in rice germplasm for qualitative and quantitative parameters. **Advisor:** Dr. Mehar Ali Shah.

**CGPA:** 3.96/4.0 (Gold Medal-Distinction)

## **PROFESSIONAL EXPERIENCE**

### **TEACHING EXPERIENCE**

#### ➤ **Lecturer (26<sup>th</sup> June 2014 till present)**

**Department of Plant Breeding and Genetics, University of Agriculture Peshawar, Pakistan.**

- Taught several different courses related to Plant Breeding and Genetics.
- Supervised students (PhD, graduate and Undergraduate)
- Facilitated students from different fields to avail of foreign scholarships for studying abroad

#### ➤ **Teaching Assistant (8<sup>th</sup> Jan 2018 to 8<sup>th</sup> April 2018)**

**Dr. Andrew Walker, Department of Viticulture and Enology, UC Davis, CA, USA.**

- Assisted students in clarifying the course material for the class “Viticultural Practices (VEN-101B)” and highlighted important lecture points.

- Hold office hours, collaborated on practice exam questions and answered student queries, graded all assignments and exams, and led discussions.
  - Conducted lab sessions and instructed students on how to properly prune grape vines.
- **Student Intern (1<sup>st</sup> January 2011- 1<sup>st</sup> January 2012)**  
**National Internship Program, University of Agriculture Peshawar, Pakistan,**
- Performed and organized classes with master's and undergraduate students in the Department of Plant Breeding and Genetics.
  - Assisted a professor in teaching, held office hours, graded assignments, and conducted lab sessions.
  - Designed an experiment to morphologically characterize a *Brassica campestris* using a randomized complete block design.
  - Drafted a grant proposal and secured funding for studying abroad at UC Davis, United States.

## **RESEARCH EXPERIENCE**

- **Graduate Student Researcher (June 2016 to 19<sup>th</sup> September 2019)**  
**Professor Dr. Andy Walker's Lab, Department of Viticulture and Enology, UC Davis, CA, USA**
- Map-based cloning of candidate genes for powdery mildew resistance from the Chinese grape species *Vitis piasezkii*
  - Different levels of susceptibility to powdery mildew fungus in *Vitis* from the Southwestern United States.
  - Confirming a Powdery Mildew resistance and identifying flower type in wild *Muscadinia rotundifolia* grapevines
- **Research Officer (1<sup>st</sup> November 2012 to 26<sup>th</sup> June 2014)**  
**Agriculture Research Institute Tarnab, Peshawar, Pakistan**
- Collected, maintained and statistically evaluated data using SPSS and Excel for ongoing research on potatoes, spinach, tomatoes and broccoli.

## **ACADEMIC SERVICE**

- **Assistant Director**
  - Directorate of Student Counseling, Placement and Human Resources Development, University of Agriculture Peshawar. Spring 2023 till now
- **Associate Editor**
  - Sarhad Journal of Agriculture (SJA), University of Agriculture Peshawar. 1<sup>st</sup> Jan 2022 to Jan 2024
- **Committee Member**
  - **Chancellor's Graduate & Professional Student Advisory (CGPSA) Board, UC Davis, USA. Fall 2017-2018**
  - Worked closely with Chancellor 'Garry May' to advocate the experiences and lives of graduate and professional students at the UC Davis, USA campus.

- Helped on projects like mentorship, health & wellness, housing, retention and GSA marketplace to help graduate and professional students.
- **Webmaster**
  - **Students of Horticulture and Agronomy Graduate Group, UC Davis, USA, Fall 2017 to September 2019.**
    - Maintained and updated the students club website, including announcements, social events, calendar and student bios.
  - **Graduate Student Association (GSA) Representative**
  - GSA Assembly, UC Davis, USA. Fall 2016 to Fall 2017
    - Represented the Horticulture and Agronomy graduate group in the GSA assembly. Participated and voted in all the meetings related to graduate student lives and issues.

### **SKILLS**

Genetics, Plant Biology, and Plant breeding coupled with experience in Fieldwork and Data Analysis using Software and Experimental design. Proficiency in Phenotyping and Genotyping. Additionally, I have some Bioinformatics skills, particularly in “Geneious prime”. In Quantitative genetics, I can assess genotype-environment interactions and evaluate selection response. I have some expertise in Scientific writing and have published several research papers and scientific reports.

### **PUBLICATIONS**

Sr. #	Authors	Year	Title	Journal	Vol./Issue/Page	ISSN	Indexing/Impact Factor
<b>International</b>							
10	Laila Fayyaz, Alan Tenschler, Andy Viet Nguyen, Huma Qazi, and M. Andrew Walker*	14th Feb 2021	Vitis species from the Southwestern United States Vary in their Susceptibility to Powdery Mildew	Plant Disease	105(9):2418-2425	0191-2917	4.4 (W)
9	Mahwish Kanwal, Farhatullah*, M. Ashiq, Rabbani, Sidra Iqbal, Laila Fayyaz and M. Afzal	10 <sup>th</sup> April 2014	Genetic Diversity in Brassica Species and Eruca Sativa for Yield Associated Parameters	Genetika	46(2):537-543	1820-6069, 0534-0012	0.33 (Y)
<b>National (Pakistani)</b>							
Sr. #	Authors	Year	Title	Journal	Vol./Issue/Page	ISSN	Indexing/Impact Factor

8	Hera Gul Mohmmad, Rozina Gul, Hamayoon Khan, Sheraz Ahmed*, Laila Fayyaz, Ajmalud Din and Imtiaz Ali	3 <sup>rd</sup> Feb 2022	Efficacy of Phosphorus Application on Yield in Different Chickpea ( <i>Cicer arietinum</i> L.) Genotypes	Sarhad journal of Agriculture	38(2):439-447	1016-4383, 2224-5383	Y
7	Amir Muhammad Khan, Laila Fayyaz*, Raziuddin, Sajid Ali, Israrud-Din, Sheraz Ahmad, Haidar Ali and Ijaz Ahmad	8 <sup>th</sup> Nov. 2021	Genetic Variability among Rapeseed ( <i>B. napus</i> L.) Genotypes for Seed-Yield and Seed-Quality Trait	Sarhad journal of Agriculture	38(1):68-75	1016-4383, 2224-5383	Y
6	Naseeb Ullah, Farhatullah*, Hidayat Ur Rahman, Laila Fayyaz, and Noor Ul Amin.	4 <sup>th</sup> April 2015	Genetic Variability among Advanced lines of Brassica	Pakistan journal of Botany	47(2): 623-628	0556-3321	0.99 (W)
5	Laila Fayyaz, Farhatullah*, Sikandar Shah, Sidra Iqbal, Mehwish Kanwal and Sajid Ali	10 <sup>th</sup> Jan 2014	Genetic Variability Studies in Brassica F <sub>2</sub> Populations Developed through Inter and Intra-Specific Hybridization	Pakistan journal of Botany	46(1): 265-269	0556-3321	0.99 (W)
4	Sidra Iqbal, Farhatullah*, Adnan Nasim, Mahwish Kanwal And Laila Fayyaz	10 <sup>th</sup> Jan 2014	Heritability Studies for Seed Quality Traits in Introgressed Segregating Populations of Brassica	Pakistan journal of Botany	46(1): 239-243	0556-3321	0.99 (W)

3	Sidra Iqbal, Farhatullah*, Sikandar Shah, Mehwish Kanwal, Laila Fayyaz and M. Afzal	8 <sup>th</sup> April 2014	Genetic Variability and Heritability Studies in Indigenous Brassica rapa Accessions	Pakistan journal of Botany	46(2):609-612	0556- 3321	0.99 (W)
2	Laila Fayyaz, Farhatullah*, M. Ashiq Rabbani, Sidra Iqbal, Mehwish Kanwal, and Iffat Nawaz	10 <sup>th</sup> July 2014	Genetic Diversity Analysis of Brassica napus/Brassica campestris Progenies using Microsatellite Markers	Pakistan journal of Botany	46(3): 779-787	0556- 3321	0.99 (W)
1	Mahwish Kanwal, Farhatullah*, M. Ashiq Rabbani, Sidra Iqbal, Laila Fayyaz, and Iffat Nawaz	6 <sup>th</sup> Oct 2014	The Assessment of Genetic Diversity between and within Brassica Species and their Wild Relative (Eruca Sativa) using SSR Markers	Pakistan journal of Botany	46(4): 1515- 1520	0556- 3321	0.99 (W)

### **CONFERENCES/WORKSHOPS/SEMINARS/WEBINARS**

- Attended an international conference on “Food Security through Sustainable Plant Protection Strategies”. University of Agriculture Peshawar. 16<sup>th</sup>-20<sup>th</sup> Jan, 2022.
- Webinar: How to Get Published in an Academic Journal. ProQuest. 29<sup>th</sup> Sep 2021.
- Webinar: *ProQuest One Academic*. ProQuest. 21<sup>st</sup> of September 2021.
- Webinar: ProQuest’s Introduction to publishing in an academic journal. Higher Education Commission. 8<sup>th</sup> Dec 2020.
- Webinar: How to manage your reference Using RefWorks. Higher Education Commission. 1<sup>st</sup> Dec 2020.
- Fayyaz L. *et al.* Powdery mildew resistance varies in western US *Vitis* accessions. Conference proceeding’s page 120. Flash talk and poster. The 70th ASEV National Conference, Napa Valley Marriot Hotel Napa, CA, USA., 17-20 June, 2019.
- Fayyaz L. *et al.* Powdery mildew fungus resistance in grapevine accessions native to the United States. Plant Science Symposium, University of California, Davis, USA., 8<sup>th</sup> April 2019.
- Fayyaz L. *et al.* Screening Wild and Cultivated Grapevines from the Southern U.S. for Powdery Mildew Resistance. Poster # PO0209. The Plant and Animal Genome XXVII Conference (PAG), San Diego, USA., 12-16 January 2019.

- Fayyaz L. *et al.* Screening grapevine accessions as a potential source of resistance to Powdery mildew. Poster # 31-SI. National Association of Plant Breeders 2018 Annual Meeting. University of Guelph, Ontario, Canada. 7-10<sup>th</sup> August 2018.
- Fayyaz L. *et al.* Characterizing Grapevine Powdery Mildew Resistance Genes from the Chinese Species *Vitis piasezkii*. Conference proceedings on pages 112-113. Flash talk and poster # 112. The 69th ASEV National Conference, Portola Hotel & Monterey Conference Center, Monterey, California, USA. 18–21<sup>st</sup> June, 2018.
- Fayyaz L. *et al.* Map-based cloning of genes for powdery mildew resistance from Chinese grape species *Vitis piasezkii*. Conference proceeding's page 26. Flash talk and poster # 76. The 68th ASEV National Conference, Hyatt Regency Bellevue, Bellevue, Washington, USA. 26–29<sup>th</sup> June 2017.
- Flash talk at the UC Davis Plant Breeding Retreat. Bodega Bay Marine Lab, California, USA. 18-19<sup>th</sup> December 2017.
- Fayyaz L. *et al.* (2012). Genetic variability studies in Brassica F2 populations developed through an inter and intra-specific Hybridization. 12<sup>th</sup> national and 3<sup>rd</sup> international conference of botany, Quaid-e-Azam University, Islamabad, Pakistan. 1<sup>st</sup> – 3<sup>rd</sup> September 2012.
- Fayyaz *et al.* (2012). Genetic diversity analyses of Brassica *napus*/ Brassica *campestris* progenies using microsatellite markers. 12<sup>th</sup> national and 3<sup>rd</sup> international conference of botany, Quaid-e-Azam University, Islamabad, Pakistan. 1<sup>st</sup> – 3<sup>rd</sup> September 2012

## **TRAINING**

- Participated in “One Day Policy Dialogue on Plant Breeders’ Rights”. Arid Agriculture University Rawalpindi. 18<sup>th</sup> Oct 2022.
- Conducted a training on “Indigenous Crop Improvement Programs: A Way Forward for Ensuring Food Security and Poverty Alleviation”. University of Agriculture Peshawar. 21-22 March, 2022.
- Conducted a training under “The Japanese Agricultural Training Program”. University of California, Davis, USA. 12-15 August 2019. The goal of this program was to give the students vocationally and professionally oriented training, both theoretical and practical, that covers grapevines.
- Conducted a training under “The Japanese Agricultural Training Program”. University of California, Davis, USA. 3-8 August 2017.
- Conducted a training under “The Japanese Agricultural Training Program”. University of California, Davis, USA. 15-18 August 2016.
- Received training on “23rd Master Trainers-Faculty Professional Development Program”. HEC Islamabad, 10<sup>th</sup> Nov-31<sup>st</sup> Dec 2014.
- They received training on “Biochemical and Molecular Techniques in Plant Breeding”—Pakistan Atomic Energy Commission, Nuclear Institute for Agriculture and Biology, 21<sup>st</sup> -25<sup>th</sup> Oct 2013.

## **AWARDS & RESEARCH GRANTS**

1. Academic Performance Award (2021), Faculty of Crop Production Sciences, Department of Plant Breeding and Genetics, the University of Agriculture Peshawar.

2. Higher Education Commission, Approved Academic supervisor, 1<sup>st</sup> Jan 2022- 1<sup>st</sup> Jan 2025
3. Ph.D. Scholarship, Agricultural Innovation Program (AIP) for Pakistan led by CIMMYT supported by the U.S. Agency for International Development, 2015-19 academic year, 15<sup>th</sup> July 2014.
4. Teaching Assistantship for the course VEN-101B with Dr. Andrew Walker, Department of Viticulture and Enology, University of California Davis, USA. 8<sup>th</sup> Jan 2018 to 8<sup>th</sup> April 2018.
5. Henry A. Jastro Research Scholarship Award, University of California Davis, USA. 2018-19 academic year, 22<sup>nd</sup> Aug 2018.
6. Graduate Student Association's 2018 Fall Travel Award, University of California Davis, USA. 16<sup>th</sup> August 2018.
7. The Pearl & Albert J. Winkler Scholarship, Department of Viticulture & Enology, University of California Davis, USA. 2018-19 academic year, 30<sup>th</sup> May 2018.
8. Horticulture and Agronomy Graduate Fellowship, Department of Plant Sciences, University of California Davis, USA. 21<sup>st</sup> May 2019.
9. Horticulture and Agronomy Graduate Fellowship, Department of Plant Sciences, University of California Davis, USA. 7<sup>th</sup> June 2018.
10. Horace O. Lanza Scholarship, Department of Viticulture & Enology, University of California Davis, USA. 2017-18 academic year, 3<sup>rd</sup> Oct. 2017
11. Henry A. Jastro Research Scholarship Award, University of California Davis, USA. 2017-18 academic year, 28<sup>th</sup> July 2017.
12. American Society for Enology and Viticulture (ASEV) Scholarship Award, USA. 2017-18 academic year, 18<sup>th</sup> May 2017.
13. California Irrigation Institute (CII) conference scholarship for 2017, USA. 15<sup>th</sup> Dec 2017
14. Henry A. Jastro Research Scholarship Award, University of California Davis, USA. 2016-17 academic year, 5<sup>th</sup> Aug. 2016.

### **HONORS**

1. Graduate Student Award (for third place in academics at masters' level), Department of Plant Breeding and Genetics, University of Agriculture Peshawar, Pakistan, 5<sup>th</sup> March 2013.
2. University Gold Medal in Department of Plant Breeding and Genetics (for highest academic standing at the undergraduate level), University of Agriculture Peshawar Pakistan, 15<sup>th</sup> April 2010.
3. Gold Medal in the Faculty of Crop Production Sciences (for highest academic standing at the undergraduate level), University of Agriculture Peshawar, Pakistan, 15<sup>th</sup> April 2010.

### **SUPERVISION EXPERIENCE**

#### **M.Sc.(H)/M.Phil STUDENT SUPERVISED & AWARDED DEGREE**

S. No	Student Name	Title	Reg-Completion Date
13	Hira Ali	Heritability and Genetic Advance for yield and yield related traits of elite bread wheat Genotypes	2022-25

12	Hakimullah	Genetic Variation in the Indigenous Brassica Germplasm for Yield and Quality Traits	2022-24
11	Sami ullah	Morphological and Biochemical Characterization of Indigenous Brassica Genotypes	2022-24
10	M. Aqib	Genetic Studies of Advanced Rapeseed Lines Using Morphological and Biochemical Traits	2021-24
9	Fazal Wadood	Genotype by Environment Interaction and Correlation Studies in <i>Brassica Napus</i>	2021-24
8	Muhammad Haris	Genotype $\times$ Environment Interaction in Brassica Genotypes for Yield and Yield-Related Traits	2021-24
7	Asma Gul	Heritability and Genetic Advance for Yield and Biochemical Traits in Brassica Advanced Lines	2021-23
6	Muhammad Suliman	Genetic Evaluation among Brassica Advanced Lines for Quantitative and Qualitative Traits	2021-23
5	Haris Abdullah	Characterization of Brassica Introgressed Lines (F <sub>9:10</sub> ) through Morphological and Biochemical Traits	2020-23
4	Syed Hasnain Abbas	Genotype $\times$ Location Interaction and Heritability for Yield and Maturity Traits in Common Beans	2019-21
3	Muhammad Murad	Stability Analysis for Yield-Related Traits in Common Bean across Locations	2019-21
2	Zafar Ullah	Genotype $\times$ Environment Interaction For Yield And Yield-Related Traits in Common Bean	2019-21
1	Basharat Ali Junaid	Genotype by Location Interaction for Yield and Yield Components in Common Bean	2019-21

• **B. Sc (Hons) STUDENT SUPERVISED & AWARDED DEGREE**

S. No	Student Name	Title	Reg-Completion Date
-------	--------------	-------	---------------------



14	Abbas Ali	Comparison of Different Brassica Varieties for some Morphological Traits	2020-24
13	Noman Anjum	Adaptability and quality assessment of grapevine cultivar at Khyber Pakhtunkhwa	2020-24
12	Farhan Nawaz	Genetic Variation and Adaptability Trial of Grapevine at Peshawar Khyber Pakhtunkhwa	2020-24
11	Kainat Zameer	Genetic Variation among Rapeseed ( <i>Brassica Napus</i> L.) for Morphological and Biochemical Traits	Fall 2019-23
10	Muhammad Ikram	Assessment of Heritability Estimates among Rapeseed ( <i>Brassica Napus</i> L.) for Morphological Traits	Fall 2019-23
9	Aqsa Khan	Salinity Stress Tolerance of Common Bean ( <i>Phaseolus vulgaris</i> L.) in Hydroponic Culture	Fall 2018-22
8	Anosha Abdullah	Physiological Response of Common Bean ( <i>Phaseolus vulgaris</i> L.) to Salinity Stress in Hydroponics	Fall 2018-22
7	Hamayun Riaz	Response of Common Bean ( <i>Phaseolus vulgaris</i> L.) to Salinity Stress in Hydroponic Culture	Fall 2018-22
6	Zubair Hassan	Effect of Salinity Stress on Common Bean ( <i>Phaseolus vulgaris</i> L.) in Hydroponic Media	Fall 2018-22
5	Masab Aziz	Morphological and Biochemical Characterization of <i>B. napus</i> L. genotypes	Fall 2017-21
4	Abdul Basit Jan	Genetic Variability and Heritability Studies among Brassica ( <i>Brassica Napus</i> L.) Genotypes	Fall 2017-21
3	Afraz Nasim	Characterization of Rapeseed ( <i>Brassica Napus</i> L.) through Morphological and Biochemical Traits	Fall 2017-21
2	Aleena Arshad	Genetic Variability for Morphological Traits in F8 Population of Brassica Species	Spring 2017-20
1	Muhammad Suliman	Genetic Variability in Different Accessions of Common Beans Collected from Swat Region	Spring 2017-20

## **COURSES TAUGHT**

### **2024 Semester**

#### **Fall (17-CH)**

Breeding Minor/Sugar crops (PBG-604) B.Sc.(H), 3 CH  
Morphology and Reproductive System of Crop Plants (PBG-504) B.Sc.(H), 3 CH  
Cytogenetics (PBG-503) B.Sc.(H), 3 CH  
Principles of Genetics (PBG-501) B.Sc.(H), 3 CH  
Thesis and Research (PBG-795) M.Sc. (H), 4 CH  
Internship/Research Project (PBG-614) B.Sc.(H), 1 CH

#### **Spring (19-CH)**

Population Genetics (PBG-708) M.Sc. (H), 3 CH  
Molecular Genetics (PBG-510) B.Sc.(H), 3 CH  
Modern Techniques in Plant Breeding (PBG-514) B.Sc.(H), 3 CH  
Introductory Plant Breeding (PBG-311) B.Sc.(H), Sec A, 5 CH  
Thesis and Research (PBG-795) M.Sc. (H), 4 CH  
Internship/Research Project (PBG-614) B.Sc.(H), 1 CH

### **2023 Semester**

#### **Fall (18-CH)**

Introductory Plant Breeding (PBG-401) B.Sc.(H), Sec A, Sec C, 10 CH  
Breeding Minor/Sugar crops (PBG-604) B.Sc.(H), 3 CH  
Thesis and Research (PBG-795) M.Sc. (H), 4 CH  
Internship/Research Project (PBG-614) B.Sc.(H), 1 CH

#### **Spring (8-CH)**

Molecular Genetics (PBG-510) B.Sc.(H), 3-CH  
Thesis and Research (PBG-795) M.Sc. (H), 4 CH  
Internship/Research Project (PBG-614) B.Sc.(H), 1 CH

### **2022 Semesters**

#### **Fall (18-CH)**

Introductory Plant Breeding (PBG-401) B.Sc.(H), Sec B, Sec C, 10 CH  
Breeding Minor/Sugar crops (PBG-604) B.Sc.(H), 3 CH  
Thesis and Research (PBG-795) M.Sc. (H), 4 CH  
Internship/Research Project (PBG-614) B.Sc.(H), 1 CH

#### **Spring (8-CH)**

Molecular Genetics (PBG-510) B.Sc.(H), 3-CH  
Thesis and Research (PBG-795) M.Sc. (H), 4-CH  
Internship/Research Project (PBG-614) B.Sc.(H), 1 CH

### **2021 Semesters**

#### **Fall (18-CH)**

Population Genetics (PBG-708) M.Sc. (H), 3 CH  
Introductory Plant Breeding (PBG-401) B.Sc.(H), Sec C, Sec D, 10 CH  
Thesis and Research (PBG-795) M.Sc. (H), 4 CH  
Internship/Research Project (PBG-614) B.Sc.(H), 1 CH

**Spring (19-CH)**

Introductory Genetics (PBG-311) B.Sc.(H), Sec A, Sec B, 10 CH  
Molecular Genetics (PBG-510) B.Sc.(H), 3 CH  
M.Sc. (Hons)/ PhD seminars (PBG-794), 1 CH  
Thesis and Research (PBG-795) M.Sc. (H), 4 CH  
Internship/Research Project (PBG-614) B.Sc.(H), 1 CH

**2020 Semesters**

**Fall (17-CH)**

Population Genetics (PBG-708) M.Sc. (H), 3 CH  
Genetics and Breeding of Oil Seed Crops (PBG-711) M.Sc. (H), 3 CH  
Introductory Plant Breeding (PBG-401) B.Sc.(H), Sec B, 5 CH  
M.Sc. (Hons)/ PhD seminars (PBG-794), 1 CH  
Thesis and Research (PBG-795) M.Sc. (H), 4 CH  
Internship/Research Project (PBG-614) B.Sc.(H), 1 CH

**Spring (14-CH)**

Introductory Genetics (PBG-311) B.Sc.(H), Sec A, 5 CH  
Molecular Genetics (PBG-510) B.Sc.(H), 3 CH  
M.Sc. (Hons)/ PhD seminars (PBG-794), 1 CH  
Thesis and Research (PBG-795) M.Sc. (H), 4 CH  
Internship/Research Project (PBG-614) B.Sc.(H), 1 CH

**2019 Semesters**

**Fall (14-CH)**

Population Genetics (PBG-708) M.Sc. (H), 3 CH  
Morphology and Reproductive System of Crop Plants (PBG-504) B.Sc.(H), 3 CH  
Modern Techniques in Plant Breeding (PBG-514) B.Sc.(H), 3 CH  
Thesis and Research (PBG-795) M.Sc. (H), 4 CH  
Internship/Research Project (PBG-614) B.Sc.(H), 1 CH

**2014 Semesters**

**Fall (12-CH)**

Introductory Genetics (PBG-311) B.Sc.(H), Sec A, 5CH  
Breeding vegetable crops (PBG-515) B.Sc.(H), 3CH  
Thesis and Research (PBG-795) M.Sc. (H), 4 CH

**Membership of Association/Organization**

- Associate Editors, Sarhad Journal of Agriculture (SJA), the University of Agriculture, Pakistan. 1<sup>st</sup> January 2022 to 1<sup>st</sup> January 2024
- American Society for Enology and Viticulture (ASEV), Davis, California, USA. 7<sup>th</sup> April 2017 – 14<sup>th</sup> Feb 2020.

### **Volunteer work**

- **Event Organizer**  
**University of Agriculture Peshawar (21<sup>st</sup> and 22<sup>nd</sup> March 2022)**  
Stage secretary of training workshop on “Indigenous Crop Improvement Programs: A Way Forward for Ensuring Food Security and Poverty Alleviation”
- **Event Organizer**  
**University of Agriculture Peshawar (16<sup>th</sup> Jan 2022 – 20<sup>th</sup> Jan 2022)**  
Stage secretary of an international conference on “Food Security through Sustainable Plant Protection Strategies”.
- **Event Organizer**  
**University of California, Davis, USA ( 1<sup>st</sup> Sep 2017 – 16<sup>th</sup> April 2018)**  
Responsible for organizing the 2018 UCD / DuPont Pioneer Plant Science Symposium held at UCD. <http://plantsciencesymposium.ucdavis.edu/>
- **Foreign Scholarship Assistance Consultant**  
I provide services to students for networking with foreign professors, TOEFL/IELTS and GRE test preparation, application, help in writing their SOP, research proposal, and letter of recommendation, and practicing their visa interview.

Sr. #	Year	Name	Degree	University	Department	Funding
15	Fall 2024	M. Aqib	M.sc	<i>University di Bologna</i>	Agriculture Campus	ER.GO
14	Fall 2024	Zeeshan Ahmad	PhD <a href="mailto:2024Y90100073@caas.cn">2024Y90100073@caas.cn</a>	Chinese Academy of Agriculture Sciences (CAAS)	Plant sciences	Chinese Govt.
13	Fall 2024	M. Omer	M.Sc. <a href="mailto:muhammad.omer@helsinki.fi">muhammad.omer@helsinki.fi</a>	<i>University of Helsinki, viikki campus</i>	Plant production sciences	Finnish Scholarship
12	Fall 2023	Zeeshan Ahmad	PhD <a href="mailto:2023y90100029@caas.cn">2023y90100029@caas.cn</a>	Chinese academy of agriculture Sciences (CAAS)	Plant sciences	Chinese Govt.

11	Spring 2023	Noreen Fayyaz	PhD	North Dakota State University, USA	Computer science	US-Pakistan Knowledge Corridor, HEC Pakistan
10	Fall 2022	Aziz Ullah	M.Sc. <a href="mailto:aziz.ullah@student.urk.edu.pl">aziz.ullah@student.urk.edu.pl</a>	Ondokuz Mayıs University, Turkey	The Erasmus Mundus Master in Soil Science (emiSS)	Erasmus Mundus Joint Masters
9	Fall 2022	Fitrat Ullah	PhD <a href="mailto:Fu064722@ohio.edu">Fu064722@ohio.edu</a>	Ohio University, USA	Enviroment & Plant Biology	US-Pakistan Knowledge Corridor, HEC Pakistan
8	Fall 2022	Maria Ali	PhD <a href="mailto:ma85310@uga.edu">ma85310@uga.edu</a>	The University of Georgia, USA	Crop & Soil Sciences	US-Pakistan Knowledge Corridor, HEC Pakistan
7	Fall 2022	Afrah Saleem Qadri	Undergraduate Exchange Program for Pakistan	Southeast Missouri State University USA	Kinesiology, Nutrition, and Recreation	USAID
6	Spring 2022	Aizaz Ali	PhD <a href="mailto:Aizaz.ali@ndsu.edu">Aizaz.ali@ndsu.edu</a>	North Dakota State University, USA	Plant Sciences	US-Pakistan Knowledge Corridor, HEC Pakistan
5	Spring 2022	Abdul Wahid	PhD <a href="mailto:Abdul@tamu.edu">Abdul@tamu.edu</a>	Texas A&M University, USA	Department of Soil and Crop Sciences	US-Pakistan Knowledge Corridor, HEC Pakistan
4	Spring 2022	Shahab Ahmad	PhD <a href="mailto:Shahab.ahmad@ndsu.edu">Shahab.ahmad@ndsu.edu</a>	North Dakota State University, USA	Plant Sciences	US-Pakistan Knowledge Corridor, HEC Pakistan
3	2021	Rehan	Foreign Language Teaching Assistant (FLTA)	University of Wisconsin Madison, USA	English	Fulbright Scholar-USAID
2	2021	Ifra Siddique	PhD <a href="mailto:Ifra.siddique@uniba.it">Ifra.siddique@uniba.it</a>	University of bari aldoro (Medicina veterenaria campus valenzano), Italy	Avain pathology	Italian rainfall scholarship and miur pons scholarship

1	Fall 2020	Nasir Fayyaz	M.Sc.	Politecnico di Torino, Turin, Italy	Electronics Engineering	Italian funding
---	--------------	-----------------	-------	---	----------------------------	-----------------

## **REFERENCES**

1. M. Andrew Walker, professor, Ph.D., Louise Rossi Endowed Chair in Viticulture, Department of Viticulture and Enology, University of California, Davis.  
Mob : +1(530)752-0380, email: [awalker@ucdavis.edu](mailto:awalker@ucdavis.edu)

2. Rozina Gul, Professor, PhD  
Department of Plant Breeding and Genetics, The University of Agriculture Peshawar.  
email: [rozinagul@aup.edu.pk](mailto:rozinagul@aup.edu.pk)