



#### **FIVE MORE PhD SCHOLARS PRODUCED BY UAF**

On the recommendations of the external examiners and after fulfilling all the requirements, Muhammad Anwar S/O Muhammad Ramzan, Reg. No. 2002-ag-1884, Department of Plant Breeding and Genetics, Faculty of Agriculture, Muhammad Kaleem Ullah S/O Riaz Ahmad, Reg. No. 2011-ag-3928, Institute of Agricultural Extension, Education & Rural Development, Faculty of Social Sciences, Sana Maqsood D/O Muhammad Maqsood, Reg. No. 2011-ag-974, Department of Botany, Faculty of Sciences, Urooj Anwar D/O Muhammad Anwar Zia, Reg. No. 2012-ag-3033, Institute of Animal and Dairy Sciences, Faculty of Animal Husbandry, Saba Namet D/O Zafer Iqbal, Reg. No. 2011-ag-3226, National Institute of Food Science and Technology, Faculty of Food, Nutrition & Home Sciences, have passed the final examination for the degree of Doctor of Philosophy. The Vice Chancellor is pleased to sanction their admission to the degree of Doctor of Philosophy 2023. The title of their thesis are, "Breeding potential of *Gossypium hirsutum* L. for salinity tolerance" "Swot analysis of sustainable cotton production in Punjab, Pakistan", "Adaptive components for salinity tolerance in *Phragmites* Adans. species from different ecological zones", "Effect of different storage periods of wheat on growth performance, digestibility and intestinal morphology of broiler chickens", "Characterization and end use perspectives of melon by-products", respectively. Now the PhD club raised up to 2391.

#### **PLACEMENT OF PhD THESIS FOR PEER REVIEW**

1. A copy of the PhD thesis submitted by Miss. Ayesha Mustafa, Regd. No. 2014-ag-5559, will be placed in the library Department of Agronomy from 21-05-2024 to 27-05-2024. The title of her thesis is "Nitrogen Management interventions to Enhance Growth, Productivity and Nitrogen Use Efficiency in Rice". All the faculty members and students are welcome to read/consult the thesis.
2. A copy of the PhD thesis submitted by Mr. Muhammad Kashif Hanif, Regd. No. 2003-ag-1956, will be placed in the library Department of Agronomy from 22-05-2024 to 28-05-2024. The title of his thesis is "Productivity and nutritional perspectives of quinoa genotypes under different planting techniques and geometry". All the faculty members and students are welcome read/consult the thesis.
3. A copy of the PhD thesis submitted by Memona Saeed, Regd. No. 2010-ag-2053, will be placed at UAF Sub-Campus Toba Tek Singh from 21-05-2024 to 27-05-2024. The title of her thesis is "Investigation of Factors Effecting Chick Sex Prediction in Hatching Eggs of Japanese Quail (*Coturnix Coturnix Japonica*)". All the faculty members and students are welcome to read/consult the thesis.
4. PhD thesis of Ms. Iram Ijaz, Regd. No. 2015-ag-570, will be placed in the office of the Chairman, Department of Botany for one week after its publication prior to its submission for foreign evaluation. The faculty and the students are invited to peruse the thesis for any suggestions/correction. The suggestions received if any will be incorporated through the supervisory committee. Title: "Adaptive components for environmental heterogeneity in some *Aristida* L. species from different ecological zones".
5. Mr. Ameen Ullah, Regd. No. 2009-ag-2472, a PhD student of the Institute of Agricultural and Resource Economics, will place his PhD thesis for peer review in the office of the Director, IARE. The thesis will be available for review for one week after its publication. The title of his thesis is "Hydro-Economic Impact of High Efficiency Irrigation Systems (HEIS) and Low Delta Crops on Groundwater Extraction in Balochistan".

#### **PhD THESIS/SYNOPSIS DEFENCE**

1. Synopsis defense of Mr. Muhammad Moiz Shaheen, Regd. No. 2012-ag-3759, a PhD student in the Department of Irrigation and Drainage, Faculty of Agricultural Engineering and Technology, UAF will be held on 30-05-2024 at 11:00 am in the Remote Sensing and GIS Lab. of Faculty of Agricultural Engineering and Technology. The title of his PhD research is "Development of Flood Early Warning System through Modeling Approach in Hill Torrent Areas of Punjab, Pakistan". All interested faculty members and students are cordially invited to attend the seminar/synopsis defense.
2. Muhammad Waseem Tahir, Regd. No. 2005-ag-1121, a PhD student of Department of Pathology, Faculty of Veterinary Science, will defend his thesis entitled "Prevalence, Pathology and molecular Diagnosis of Marek's Disease in Layers and Layer Breeders in Faisalabad" on 22-05-2024 at 09:30 am in the Faculty

Meeting/Seminar Room Faculty of Veterinary Science, UAF. All the faculty members, students and all interested are invited for constructive criticism and valuable suggestions.

3. Miss Maria Khan, Regd. No. 2014-ag-5406, PhD student from the Department of Forestry and Range Management will defend her PhD synopsis in the Forestry Lecture Room on 30-05-2024 at 11:00 am. All the concerned are requested to kindly make it convenient to attend and contribute for improving the synopsis. The title of his synopsis is "Characterization of various Environmental factors involved in kikar (*Vachellia nilotica*) decline and its management".
4. Miss Riffat Perveen, Regd. No. 2012-ag-2190, PhD student in the Department of Forestry & Range Management will defend his synopsis in the Forestry lecture room on 30-05-2023 at 02:00 pm. All the concerned are requested to kindly make it convenient to attend and contribute for improvement. The title of her synopsis is "Characterizing suitability of Alley cropping system for soybean production".
5. Mr. Zia-ur-Rahman Farooqi, Regd. No. 2010-ag-2600, a student at the Institute of Soil and Environmental Sciences, will defend his PhD thesis at the university level in Library, ISES on Friday, on 24-05-2024 at 02:30 pm. The title of his thesis is "Estimation and Improvement of Carbon Sequestration Potential in Marginally Salt-affected Soils Using Organic Amendments".
6. Miss Syeda Fatima Kazmi, Regd. No. 2023-ag-1564, is a PhD student in the Department of Botany and she will defend her PhD synopsis at the University level on 30-05-2024 at 11:30 am in the Forestry lecture room. The title of her thesis is "Exploring the ethnobotanical potential of medicinal plants and their impact on rural socioeconomic conditions in district Layyah". All interested are requested to participate.
7. Mr. Kamran Ashraf, Regd. No. 2020-ag-903, a PhD student at CABB will defend his synopsis on 23-05-2024 at 10:00 am in Lecture Room No. 2 CABB. The title of his synopsis is "High Throughput Proteome Profiling of Soybean Roots at Various Developmental Stages to Elucidate its Molecular Basis". All interested are invited.
8. Aown Muhammad Shah, Regd. No. 2023-ag-1567, student of PhD Energy Systems Engineering (2<sup>nd</sup> Semester). He is going to defend his PhD synopsis on 05-06-2024 at 09:30 am in the Faculty Library, Faculty of Agri. Engineering & Technology. The title of his synopsis is "Optimization of clay composition using composite material for sustainable and energy efficient green buildings".
9. Muhammad Azhar Anwar, Regd. No. 2012-ag-1408 student of PhD Energy Systems Engineering (2<sup>nd</sup> semester). He is going to defend his PhD synopsis on 04-06-2024 at 09:30 am in the Faculty Library, Faculty of Agri. Engineering & Technology. The title of his synopsis is "Design Optimization of Heat Storage Technology using PCM-Embedded Composite Materials integrated with Scheffler Concentrator".
10. Mr. Adeel Anjum, Regd. No. 2013-ag-1954, PhD (Statistics) Scholar Department of Mathematics and Statistics will defend his PhD thesis titled "Comparative Studies of Classical and Bayesian Analysis for Weighted Distributions and their Applications in Process Monitoring" on 03-06-2024 at 01:00 pm in the main hall of new building of Department of Mathematics and Statistics. All interested are invited to attend.
11. Synopsis re-defense of Ms. Maria Fatima, Regd. No. 2015-ag-1731, PhD Scholar Biochemistry, titled "Stimulation of eryptosis by phytochemicals: a novel solution to anti-malarial therapy resistance" will be held on 23-05-2024 at 03:00 pm in Biochemistry Postgraduate Block. All interested are invited to attend.
12. Synopsis re-defense of Ms. Maham Abdul Bari Khan, Regd. No. 2018-ag-4053, PhD Scholar Biochemistry, titled "Identification of plant based p38 MAPK pathway inhibitors: A novel therapeutic approach against hyperosmolarity triggered anemia" will be held on 23-05-2024 at 02:30 pm in Biochemistry Postgraduate Block. All interested are invited to attend.
13. Rabia Zahid, Regd. No. 2017-ag-9773, PhD Microbiology student in the Institute of Microbiology successfully defended her PhD synopsis in seminar room of Faculty of Veterinary Science on 22-04-2024. The title of her defended synopsis is "Study of community immune patterns, transcription expression analysis of *Salmonella* Typhi and its persistence in various environmental niche".
14. Ms. Tayyaba Alvi, Regd. No. 2016-ag-55, PhD student at the NIFSAT has successfully defended her PhD thesis on 17-05-2024. The title of her thesis was "Application of microwave pretreatment to un-ripened dates: A sustainable approach for food and nutritive security".
15. Mr. Ali Raza, Regd. No. 2008-ag-2521, a PhD student, Department of Agronomy, has successfully defended his PhD thesis on 13-05-2024. The title of his thesis is "Evaluating the adaptability of soybean (*Glycine max* (L.) Merrill) under semi-arid conditions of Punjab, Pakistan".
16. Mr. Muhammad Ashar Ayub, Regd. No. 2011-ag-3001, a student at the Institute of Soil and Environmental Sciences, has successfully defended his PhD thesis in a seminar at the University level in Library of ISES on Monday on 20-05-2024. The title of his thesis is "Effect of Cerium Oxide Nanoparticles on Growth Response of Maize and Wheat in Cadmium Contaminated Soil".
17. Ms. Rabia Munawar, Regd. No. 2021-ag-787, student of PhD Human Nutrition and Dietetics at NIFSAT, UAF, has successfully defended her PhD synopsis on 16-05-2023. The title of her PhD synopsis is modified to "Therapeutic Potential of *Vaccinium Corymbosum* extract against high Fat Diet associated Endothelial Dysfunction".
18. Mr. Muhammad Arslan, Regd. No. 2014-ag-5546, PhD Poultry Science student at the UAF Sub Campus Toba Tek Singh has successfully defended his synopsis with suggested new title of his synopsis is "Investigating the factors effecting the transition from antibiotic growth promoters to probiotics in poultry production Pakistan" as required under the rules on 25-04-2024.
19. Miss Amina Saeed, Regd. No. 2020-ag-976, PhD Botany student, Department of Agronomy, has successfully defended her PhD synopsis on 26-04-2024. The title of her synopsis is "Exploring the potential of serotonin and 6-benzylaminopurine for enhancing thermos tolerance in *Stevia rebaudiana* L."

20. Miss Tasleem Bibi, Regd. No. 2019-ag-2982, PhD Botany student, Department of Agronomy, has successfully defended her PhD synopsis on 19-04-2024. The title of her synopsis is "Reducing Thermo Sensitivity in Soybean Through Exogenous Application of Paclobutrazol".
21. Ms. Fiza Shabbir, Regd. No. 2021-ag-1881, PhD Biochemistry student of the Department of Biochemistry has successfully defended her synopsis entitled "Inhibition of Protein kinase C $\alpha$  by phytochemicals: A novel approach to control triggered eryptosis based anemia" as required under the rules on 10-05-2024. Furthermore all teachers were physically present in this defense.
22. Ms. Ifra Tariq, Regd. No. 2023-ag-1563, student of PhD Food Science & Technology at NIFSAT, UAF has successfully defended her PhD synopsis on 16-05-2024. The committee has suggested minor changes in the topic. Title of her PhD synopsis was "Preparation of biodegradable thermoplastic materials from agro-industrial wastes for food packaging applications". Now her title has been modified as "preparation of biodegradable thermoplastic materials for food packaging applications".
23. Miss Fariha Amin, Regd. No. 2007-ag-2043, PhD student of the Institute of Soil and Environmental Sciences has successfully defended her synopsis in a seminar at the University level on 17-05-2024. The title of her synopsis is "Sustainable use of brackish water through optimizing planting methods and soil amendments in Wheat-Maize cropping system".
24. Miss Saira Jabeen, Regd. No. 2021-ag-832, Student of PhD Human Nutrition and Dietetics at NIFSAT, UAF has successfully defended her PhD synopsis on 10-05-2024. The title of her research project is "Formulation and Characterization of Extruded Complementary Feeding Blends".
25. Miss Humaira Anwar, Regd. No. 2020-ag-951, is a PhD student has successfully defended her synopsis on 26-04-2024. The committee has suggested to modify the title of her synopsis from "Exogenous application of trehalose to mitigate cadmium(Cd) stress in rice (*Oryza sativa* L.) under aerobic and anaerobic conditions to Cadmium tolerance and accumulation in aerobic and anaerobic rice and their associated weeds".
26. Ms. Zaki Rauf, Regd. No. 2016-ag-7269, student of PhD Human Nutrition and Dietetics at NIFSAT, UAF has successfully defended her PhD synopsis on 14-05-2024. The committee has suggested minor changes in the topic. The title of her synopsis was "Assessing the safety status of "Stevia (*Stevia rebaudiana*)" with respect to human health implications". Now her title has been modified as "Stevia rebaudiana-a natural sweetener: Evaluating Consumption Pattern and Safe Usage Limits through Animal Model".
27. Ms. Tehmina Iqbal, Regd. No. 2009-ag-2024, a PhD student of the Department of Rural Sociology has successfully Re-defended her synopsis entitled "Sociological Study regarding the Role of Technical Education on Human Capital Development in Punjab, Pakistan" on 17-05-2024.
28. Mr. Rana Muhammad Waqas, Regd. No. 2011-ag-3848, a PhD student from the Institute of Agricultural Extension, Education & Rural Development has successfully redefended his synopsis entitled "Training Needs Assessment of Maize Growers regarding Fall Armyworm (FAW) Management in the Punjab, Pakistan" on 16-05-2024.
29. Ms. Samia Naseem, Regd. No. 2021-ag-779, Student of PhD Human Nutrition and Dietetics at NIFSAT, UAF, has successfully defended her PhD synopsis on 15-05-2024. The committee has suggested minor changes in the topic. Title of her PhD synopsis was "Establishment of Food based Dietary Guidelines for Infants in Punjab: Incorporating PDGN 2018 as a Framework". Now her title has modified as "Establishment of Food based Dietary Guidelines for Infants in Punjab using PDGN 2018 as a Framework".
30. Ms. Soha Shahid, Regd. No. 2021-ag-1776, PhD Biochemistry student of the Department of Biochemistry has successfully defended her synopsis titled "Production of Recombinant Monoclonal Antibody based Diagnostic Kits for Breast Cancer Markers CA 15-3 and HER2ECD" as required under the rules on 10-05-2024. This topic has been modified with minor alterations in response to suggestions given during synopsis defense as "Production of Recombinant Monoclonal Antibody based Immunodiagnosics for Breast Cancer Markers CA 15-3 and HER2ECD". Furthermore all teachers were physically present in this defense.
31. Ms. Isha Sadiq, Regd. No. 2018-ag-4152, PhD Biochemistry student of the Department of Biochemistry has re-defended her synopsis entitled "Development of Stevia-Based supplements as an alternative sweetener to control diabetes" as required under the rules on 16-05-2024. Furthermore all teachers were physically present in this defense.
32. Miss Sofia Fiaz, Regd. No. 2019-ag-2246, PhD Chemistry student of the Department of Chemistry has successfully defended her synopsis entitled "Computational Insight into Anticancer Drug Designing for Breast Cancer Treatment" as required under the rules on 18-04-2024.
33. Miss Ishrat Fatima, Regd. No. 2018-ag-3503, PhD (Botany) student, Department of Plant Breeding and Genetics has successfully defended her PhD synopsis titled "Characterization of vernalization alleles for early flowering induction in wheat to escape terminal heat stress" on 10-05-2024. As per suggestions given by the teachers/participants during presentation of the synopsis a minor change has been made in the titled as "Characterization of genes to induce early flowering in spring wheat for escaping terminal heat stress".
34. Miss Komal Azhar, Regd. No. 2017-ag-9296, a student of PhD in Agricultural Economics has defended successfully her synopsis on 17-05-2024. The title of her synopsis was "The Nexus of Financial Inclusion, Resource use Efficiency and Sustainable Livelihood in Pakistan".
35. Ms. Sania Basharat, Regd. No. 2016-ag-7279, Student of PhD Human Nutrition and Dietetics at NIFSAT, UAF, has successfully defended her PhD synopsis on 16-05-2024. The committee has suggested minor changes in the topic. Title of her PhD synopsis was "Assessing the Therapeutic Potential of Figs against Postmenopausal Osteoporosis in Animal Model". Now her title has been modified as "Therapeutic Potential of Figs (*Ficus carica*) against Postmenopausal Osteoporosis in Animal Model".

36. Mr. Muhammad Muneeb, Regd. No. 2016-ag-7132, PhD Physiology has successfully defended his synopsis. The title is "Hepatoprotective potential of *Allium Sativum* (L.) extract against arsenic induced Acute liver injury in rat model" on 15-05-2024.
37. Mr. Ali Ahmad, Regd. No. 2011-ag-2643, a PhD student of Det. of Agronomy, has successfully defended his PhD thesis on 16-05-2024. The title of his thesis is "Microbial Biomass, Nutrients Availability and Wheat (*Triticum aestivum* L.) Productivity in Vermicompost Amended Soil under Different Soil Moisture Regimes."
38. Mr. Mohsin Ali, Regd. No. 2014-ag-5279, a PhD student, Department of Agronomy has successfully defended his PhD synopsis on 03-05-2024. The title of his synopsis according to the suggestions with minor change in as "Iron and Inoculation Management Strategies for Sustainable Soybean Production".
39. Mr. M. Qadeer Ashraf, Regd. No. 2015-ag-5069, a student of PhD in Agricultural Economics has defended successfully his synopsis on 17-05-2024. The title of his synopsis was "Pluses production as an import substitution strategy in Pakistan. Analyzing farm level drivers and institutional support".
40. Miss Sara Nayab, Regd. No. 2023-ag-1566, a student of PhD in Economics has defended successfully her synopsis on 17-05-2024. The title of her synopsis was "Socio-Economic assessment of Gender Inequalities in Punjab, Pakistan".
41. Miss Zaeema Farooq, Regd. No. 2017-ag-1483, a student of PhD in Economics has defended successfully her synopsis on 17-05-2024. The title of her synopsis was "Impact assessment of women's empowerment on household food security in Punjab, Pakistan".
42. Miss Sanjina Naeem, Regd. No. 2021-ag-482, a student of PhD in Economics has defended successfully her synopsis on 17-05-2024. The title of her synopsis was "Promoting Regenerative Agriculture in Pakistan: Balancing supply chains, Socio-economic viability and equity".
43. Ms. Muzna Abid, Regd. No. 2016-ag-6675, student of PhD Food Technology at NIFSAT, UAF, has successfully defended her PhD synopsis on 09-05-2024. The committee has suggested minor changes in the topic. Title of her PhD synopsis was "Valorization of Postbiotics produced by *Lactobacillus bulgaricus* for Gut Microbiota Modulation". Now her title has been modified as "Valorization of Postbiotics produced by *Lactobacillus reuteri* for Gut Microbiota Modulation".
44. Ms. Iqra Sajid, Regd. No. 2023-ag-1561, a PhD student of the Department of Rural Sociology has successfully defended her synopsis entitled "The Sociological study about the Implications of Urbanization on Climate Change: Resilience and Migration Measures, in Punjab, Pakistan" on 20-05-2024.
45. Ms. Rabia Munir, Regd. No. 2023-ag-1562, a PhD student of the Department of Rural Sociology has successfully defended her synopsis entitled "Arable Land to Urban Sprawl: An Anthropogenic Analysis" on 20-05-2024.
46. Ms. Sabooha Shafique, Regd. No. 2021-ag-2773, PhD Biochemistry student of the Department of Biochemistry has successfully defended her synopsis titled "Molecular characterization on amylases from thermophilic bacteria and its industrial applications" as required under the rules on 10-05-2024. This topic has been modified with minor alterations in response to suggestions given during synopsis defense as "Molecular Studies of Amylases from Thermophilic Bacteria and its Industrial Applications".
47. Ms. Marium Ghaffar, Regd. No. 2018-ag-537, PhD Biochemistry student of the Dept. of Biochemistry has successfully defended her synopsis titled "Inhibition of Janus kinase3 pathway by different phytochemicals in stimulated programmed cell death of erythrocytes" as required under the rules on 10-05-2024. This topic has been modified with minor alterations in response to suggestions given during synopsis defense as "Inhibition of Janus kinase3 pathway by phytochemicals to control enhanced suicidal death of erythrocytes".
48. Miss Aqsa Latif, Regd. No. 2015-ag-7056, student of PhD Biotechnology has successfully defended her PhD synopsis on 20-05-2024. Title of her research is "Identification of differentially expressed resistance gene analogs through probing the induced transcriptome against leaf spot causing fungi in *Chemopodium quinoa*".
49. Ms. Afsheen Ghafar, Regd. No. 2019-ag-1313, a PhD student of the Department of Rural Sociology has successfully defended her synopsis entitled "Nexus Between Climate Change and Food Security: A Gender-Focused Study within Rural Community of Punjab, Pakistan" on 20-05-2024.
50. Miss Sidra Sarfraz, Regd. No. 2018-ag-4254, PhD Physics student of the Department of Physics has successfully defended her synopsis entitled "First principles study of half heusler alloys for spintronic applications" required under the rules on 16-05-2024.
51. Mr. Ali Tayyab, Regd. No. 2014-ag-5471, student of PhD Food Technology at NIFSAT, UAF has successfully defended his PhD synopsis on 10-05-2024. The title of his research project was "Development and characterization of corn based ready to eat product to ensure food diversity and security". This topic has been modified with minor alterations in response to suggestions given during synopsis defense "Development of minimal processed ready to eat corn products to ensure food security and diversity".
52. Ms. Amna Javaid, Regd. No. 2011-ag-3610, PhD student of the Department of Plant Breeding and Genetics has successfully defended her PhD thesis on 17-05-2024. The title of her thesis was "Development of promising drought tolerant doubled haploid maize hybrids through genetic induction".
53. Mr. Muhammad Ashir Hameed, Regd. No. 2014-ag-5221, PhD Soil Science student of the Institute of Soil and Environmental Sciences has successfully defended his synopsis in a seminar at the University level on 17-05-2024. The title of his synopsis is "Development and evaluation of silica-nano particles coated urea for enhanced nitrogen use efficiency". (Minor changes in title as per committee suggestions).
54. Miss Sobia Riaz, Regd. No. 2014-ag-9406, PhD student of the Institute of Soil and Environmental Sciences has successfully defended her thesis in a seminar at the University level on 15-05-2024. The title of her thesis is "Comparative Potential of Sugarcane Bagasse and its Biochar on Maize Growth in Cadmium Contaminated Soil".