



# PROF. DR. TEHREEMA IFTIKHAR

## PERSONAL INFORMATION

Nationality	PAKISTANI
Domicile	LAHORE
E Mail address	pakaim2001@yahoo.com
Official email	dr.tehreema@gcu.edu.pk
Scopus ID	25722140700
Web of science researcher ID	L-1210-2013
ORCID ID	<a href="https://orcid.org/0000-0001-5369-0859">https://orcid.org/0000-0001-5369-0859</a>
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Professional address	<b>PROFESSOR (BPS-21), APPLIED BOTANY LAB, DEPARTMENT OF BOTANY, GOVT. COLLEGE UNIVERSITY LAHORE, PAKISTAN</b>

## ACADEMIC BACKGROUND

Examination	Institution	Session	Marks	Division/GP A
<b>Matric</b>	Lady MacLagan Govt. Girls High School LHR.	<b>1991-1993</b>	603/850	<b>Ist.</b>
<b>Intermediate</b>	Govt. College For Women Samanabad, LHR.	<b>1993-1995</b>	662/1100	<b>Ist.</b>
<b>Graduation (BSEd)</b>	Govt. College of Education For Science Township, LHR.	<b>1995-1998 held in 1999</b>	1600/2600	<b>Ist.</b>
<b>MSc Botany</b>	Govt. College, LHR.	<b>1999-2001</b>	1399/1750	<b>Ist. / 3.81</b>
<b>MPhil. Botany</b>	GC University, LHR.	<b>2001-2003</b>	G.Ps 136.40	<b>Ist. / 3.41</b>
<b>PhD Botany</b>	GC University, LHR	<b>Dec.2004- Dec. 2008</b>	Notified on 9 <sup>th</sup> April 2009	-
<b>PhD Fellowship</b>	Seoul national University, Seoul, South Korea	<b>Feb. 2007 to Aug 2007</b>	-	-
<b>Post Doc</b>	Cornell University, NY, USA	<b>June 2012- June 2013</b>	-	-
<b>Professional Fellowship Women Leadership Program</b>	Michigan State University, Michigan, USA	<b>Jan. 2023 to Oct 2023</b>	-	Sponsored by US Department of State

## PROFESSIONAL EXPERIENCE

DATE/DURATION	TITLE	INSTITUTION
<b>14-1-2025 (FN) to date</b>	Professor + Chairperson	Department of Botany, Govt. College University Lahore
23-9-2019 (AN) to 13-1-2025	Professor (BPS 21)	Department of Botany, Govt. College University Lahore
22-10-2019 (FN) to 09-02-2023 [FN]	Professor + Chairperson	Department of Botany, Govt. College University Lahore
21-01-2015 to 23-9-2019 (AN)	Associate Professor (Regular)	Department of Botany, Lahore College for Women University, Lahore
28-8-2014 to 20-01-2015	Associate Professor (Regular)	Department of Botany, GCU Faisalabad
28-5-2011 – 28-8-2014	Assistant Professor of (Regular)	Posted at Department of Botany, GCU Faisalabad (PPSC) Punjab Govt. Employee
June 2012 to June 2013	Research Fellow (Visiting)/PostDoctorate//Assistant Prof. (Regular)	Cornell University, Ithaca, NY, USA/Dept. of Botany, GCU Faisalabad.
11-6-2009 to 27-05-2011	Assistant Professor (Retaining lien as Regular Lecturer)	Department of Botany, GC University, Faisalabad.
13-1-2005 to 10-6-2009	Lecturer (Regular)	Department of Botany, GC University, Faisalabad.
1-10-2003 to 12-1-2005	Lecturer (Contract)	Department of Botany, GC University, Faisalabad.
19-07-2001 to 30-09-2003 (Evening/honorary)	Research Associate (R&D Experience) PSF/RES/BIOTECH/PP-GC/BIO. (37)	On the sponsored PSF project, PSF/RES/BIOTECH/PP-GC/BIO. (37), entitled “Optimization of cultural conditions on the biosynthesis of xylanase by locally isolated <i>Aspergillus niger</i> ” as Research Associate on honorary basis At BIOTECHNOLOGY CENTRE, GOVT COLLEGE UNIV. LAHORE.
21-09-2002-30-09-2003	SSE (Contract)	Lady Maclagon Govt. Girls Higher Secondary School, Lahore.

14 <sup>th</sup> Feb 2007 to 13 <sup>th</sup> August 2007	Researcher	Seoul National University, Seoul, South Korea.
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## **PRESENT & PAST ADMINISTRATIVE DUTIES AT GOVERNMENT COLLEGE UNIVERSITY LAHORE:**

POSITIONS	DESCRIPTION
<b>CHAIRPERSON</b>	<b>Department of Botany, 14-1-2025 to 6-10-2025</b>
<b>CHAIRPERSON</b>	Department of Botany, duration 22-10-2019 to 9-2-2023.
<b>ADVISOR</b>	Dr. Sultan Ahmad Botanical Society, Societies Board, Government College University, Lahore since 2021. Founder and advisor since 2021.
<b>SUPERINTENDENT</b>	Fatima Jinnah Girls Hostel, Government College University, Lahore Since 1-9-2020 to 16-5-2023 [Ref# 2686 dated: 16-5-2023].
<b>SECRETARY</b>	Advisory Board, Botanic Garden, Secretariat, Government College University, Lahore [No. EA-1/101-13/20, Dated: 3-1-2020 [Bot/R/2047 dated: 7-1-2020].
<b>CO-OPTED MEMBER</b>	Affiliation Committee, REG-ACAD-20-6/20 dated: 15-1-2020 to 2023.
<b>SECRETARY</b>	Botany Alumni Association, Department of Botany, GCU Lahore Since 2019-2023.
<b>CONVENER</b>	Board of Studies, Department of Botany, GCU Lahore (2019 to 2023).
<b>CO-ADVISOR</b>	Very first magazine entitled “The Fatima Jinnah”, Fatima Jinnah Girls Hostel, Government College University, Lahore from 2020-2023.
<b>ADVISOR</b>	Scientific Ravi, Government College university, Lahore since 2021 to date

## **RESEARCH INCENTIVE /OTHER AWARDS**

1. Research Incentive Award, **245,000** PKR, by ORIC, GCUL [Ref# 155/ORIC/25 dated: **12-5-2025**]
2. **Cash Prize** Award by Hadeed Pvt. Ltd. on EE58: Green Coagulation Technology: A sustainable approach for heavy metal and microbial removal from Potable water, Category: Engergy and Environment in 10<sup>th</sup> Invention to Innovation Summit 2025 held at University of the Punjab, **23<sup>rd</sup> and 24<sup>th</sup> April, 2025**.
3. **Best Poster Presentation** Award on EE58: Green Coagulation Technology: A sustainable approach for heavy metal and microbial removal from Potable water, Category: Engergy and Environment in 10<sup>th</sup> Invention to Innovation Summit 2025 held at University of the Punjab, **23<sup>rd</sup> and 24<sup>th</sup> April, 2025**.
4. **Cash Prize award** by Qadbro Limited among 570 Stalls, on Stall #52: for the project “Aloe Vera fiber for technical tex, Catele, category: startup in 10<sup>th</sup> Invention to Innovation Summit 2025 held at University of the Punjab, **23<sup>rd</sup> and 24<sup>th</sup> April, 2025**.
5. **3<sup>rd</sup> Position Award** among 570 Stalls, on Stall #52: for the project “Aloe Vera fiber for technical textile category: startup in 10<sup>th</sup> Invention to Innovation Summit 2025 held at University of the Punjab, **23<sup>rd</sup> and 24<sup>th</sup> April, 2025**.
6. Research Incentive Award 40,000 PKR, by ORIC, GCUL [Ref# 278/ORIC/24 dated: **9-8-2024**]

7. Research Incentive Award 210,000 PKR, by ORIC, GCUL [Ref# 144/ORIC/24 dated: **22-4-2024**]
8. Research Incentive Award 40,000 PKR, by ORIC, GCUL [Ref# 62/ORIC/24 dated: **31-1-2024**]
9. Project shortlisted for final Round, dated: 6-3-2024, **NTU-Interloop Textile Innovative Awards-2024**
10. Research Incentive Award 45,000 PKR, by ORIC, GCUL [Ref# 397/ORIC/23 dated: **22-12-2023**]
11. Research Incentive Award, 4500 PKR by ORIC, on grant of patent [**Patent # 143450 dated: 24-2-2021**].
  
12. Research incentive Award for the year 2017 by Vice Chancellor, LCWU Lahore.
13. Research incentive Award for the year 2016 by Vice Chancellor, LCWU Lahore.
14. Gold Medal certificate Award by Faroogh-e taleem, June, 2015
15. Awarded “**Qaid-e-Azam Gold medal**” in ceremony held at national Auditorium, Mall Road, Lahore organized by Tehreek e Istehtkaam e Pakistan Council, (Regd.) Pakistan on 28<sup>th</sup> June, **2014**.
16. Awarded **RPA-2012 (Research Productivity Award)** in “F” Category by **Pakistan Council of Science and Technology**.
17. Awarded “**Best Teacher Award**” on the basis of Evaluation by QEC, GCU Faisalabad for the year **2011-2012**.
18. Governor’s Scholarship Award for PhD [for Inservice Teachers] reg 2-43/03 dated 2-7-2003, Memorandum Through Govt. College Lahore.

## SERVICES IN HIGHER EDUCATION SECTOR

POSITIONS	DESCRIPTION	INSTITUTE
External Member	Board of Study, [Ref# GCUF/Add Reg-2025/295 dated: 16-5-2025]	Government College University, <b>FAISALABAD, PAKISTAN</b>
<b>Chief Editor (14-1-2025 - todate)</b>	Ravian Journal of Plant Science	Department of Botany, GC University Lahore
Associate Editor (2023-todate)	Ravian Journal of Plant Science	Department of Botany, GC University Lahore
Editor (2019 todate)	JOURNAL PLANTARUM [Journal Plantarum] ISSN ONLINE 2710-4087 ISSN PRINT 2710-4079	Lahore College for Women University Lahore
Member, Editorial Board [2019- todate]	“BIOLOGIA (LAHORE) Biological Society of Pakistan	Biological Laboratories, Government College University, Lahore,
As Judge, National Idea bank, 2-22-2023	City Level (Dec, 12 <sup>th</sup> -Dec 22 <sup>nd</sup> , 2022) Provincial Level (Jan 30 <sup>th</sup> -Feb 3 <sup>rd</sup> , 2023), and National Level (March 6 <sup>th</sup> and 7 <sup>th</sup> 2023) NIB-II competition	National Idea Bank Pakistan
External Member	Prepare/Conduct the test at Par with GRE (General) and GRE (Subject)	GC Women University, <b>SIALKOT PAKISTAN</b>
Vice President (Punjab)	Pakistan Botanical Society since 2018-2022.	Pakistan Botanical Society
Subject expert as Botanist	2 <sup>nd</sup> Scrutiny Committee (NTIF) meeting held at Committee Room, Dated: January 17 <sup>th</sup> , 2022	Pakistan Science Foundation [PSF], <b>ISLAMABAD, PAKISTAN</b>
External Member	PhD Program Review, [ GCWUF/QEC/22/1136 File ID: 31327 dated: 21-1-2022]	Government College Women University, <b>FAISALABAD, PAKISTAN</b>
Co-Opted member	Subject Expert, for the scrutiny of the applications of Associate Professor in the subject of Botany [January, 2022].	The Women University, <b>MULTAN, PAKISTAN</b>
Member	Department Tenure Review Committee (DTRIC), Department of Botany, [UO/R/2021/7/73 dated: 31-12-2021.	<b>UNIVERSITY OF OKARA, OKARA</b>
Subject Expert	Board of Study, [ Ref# GCUF/Add Reg-2021/771 dated: 14-12-2021]	Government College University, <b>FAISALABAD, PAKISTAN</b>
Eminent Scholar/Member	Institutional Scholarship Award Committee (ISAC), for the year 2021-2022 [DUA&FA/FA/5583 dated: 12-8-2021]	University Of Veterinary And Animal Sciences, <b>LAHORE [UVAS], PAKISTAN</b>
Member	Board of Study, (Since 2021)	University Of Education, Township <b>LAHORE, PAKISTAN</b>
Member	Board of Faculty, Faculty of Fisheries and Wild Life”, (Feb., 2020) Reg /G/AC/185 dated: 3-2-2020. W.e.f. 8-11-2019 [for a period of three years].	<b>UVAS, PATOKI CAMPUS, PAKISTAN</b>
Member	Board of Studies, Institute of Biotechnology	University of Lahore, <b>LAHORE,</b>

	and Molecular Biology [IMBB], Year 2020 to 9-9-2024	<b>PAKISTAN</b>
External member	Board of studies, D/REG/BoT/20/1130 dated: 2-7-2020.	GC Women University, <b>SIALKOT, PAKISTAN.</b>

## **SUPERVISION OF INTERNATIONAL STUDENTS:**

1. **Supervised**, Research Traineeship program of Comstech Consortium of Excellence [CCoE] at Applied Botany lab, Department of Botany, Government College University, Lahore for the following researchers from **Azerbaijan**. Title of their training was Starch extraction from plant materials and Microbial lipases production using thermophilic bacteria **[45-A/Dir APEL/21 dated: 6-8-2021]. Duration of stay = 8-12-2021 to 15-1-2022** [129/PS-VC/21 dated: 14-6-2021].

## **RESEARCH PROJECTS**

Date	Title	Agency/ organization	Status of project	Status /Designation in Project submitted
Award No. 20- 1565/R&D/ 10-5248	Optimization of cultural conditions for the production of lipases from fungi isolated from different lipids rich environments and its characterization.	Higher Education Commission Rs. 6.221 PKR million	<b>Completion No.</b> <b>20-</b> <b>1565/R&amp;D/NRP</b> <b>U/HEC/2010\97</b> <b>0 dated: May 16,</b> <b>2019</b>	As Principal Investigator [Completed]
IPFP Botany of Of Dr. Saqib Mahmood, GCUF	Biocompost maturation potential of native <i>Rhizopus</i> sp. for poultry compost/manure and their impact upon vigor and metabolism of wheat seedling ( <i>Triticum aestivum</i> L.)	Higher Education Commission Rs. 0.5 PKR million	Half project switched to other COPI on account my postdoc of HEC at Cornell USA.[2011-2012]	Worked as As CoPI for half project time [Completed]
235/ORIC/ 21 dated: 5-7-2021	Maintenance and preservation of lipolytic microbial culture collection	ORIC, GCUL, 200000 PKR	Completed [2023]	As PI [Completed]
428/ORIC/ 24 dated: 11-10-2024	Extraction of <i>Sesbenia</i> <i>bispinosa</i> , <i>Leptadenia</i> <i>pyrotechnica</i> and Aloevera fiber and its textile application	ORIC, GCUL, 288000 PKR	Awarded [Oct 2024]	As PI

## PATENTS [35]

### GRANTED [SI# 143450, 208/2015 DATED: 4-3-2020]:

1. **DR. TEHREEMA IFTIKHAR**, Ms. Sidra, Dr. Mubashir Niaz, Dr. Farah Khan, Dr. Shazia Anwer Bukhari, Dr. Roheena Abdullah and Dr. Mehwish Iqtedar Relating “Process optimization for enhanced biosynthesis of triglycerol acyl-hydrolases (E.C. 3.1.1.3) through mutagenic treatment of a wild axenic fungal isolate of *Fusarium* sp. (MBL-579)” **[Patent # 143450 dated: 24-2-2021].**

### SEALED

1. **PROF. DR. TEHREEMA IFTIKHAR**, Dr. Hammad Majeed, and Rehman Manzoor. “Characterization and extraction process of ABM stem fiber” [Receipt # 2302166883 dated: 13-11-2023] **FILED**. Patent Application #:776/2023. **[ACCEPTED SEPT. 2025]; sealing fee submitted 11 Jan. 2026.**

### ACCEPTED

1. **PROF. DR. TEHREEMA IFTIKHAR**, Dr. Hammad Majeed and Muhammad Zohaib. **Enhancing Postharvest Quality of PGLF with MILL and CLLL Extracts as Edible Coating and its process thereof**. [Receipt # 2302168095 dated: 15-12-2023] **FILED**. Patent Application #: 922/2023. Revision submitted In August 2024. **[ACCEPTED JANUARY 2026; patent journal ].**

### FILED IN 2024 [Filed on 30-12-2024]

Application No. with Journal Code (250110)	Patent Application title	Filing date	Co-inventors	Legal Publication Date
974/2024 (250110)	PROCESS FOR THE PREPARATION OF LEPTADENIA PYROTECHNICA FORSSK DECNE LP STEM FIBER AND ITS PRODUCT THEREOF.	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad Majeed and Qamar Abbas	10-01-2025
972/2024 (250110)	PROCESS FOR THE PREPARATION OF LEATHER BASED MATERIAL LBM FROM DYED LEATHER WASTE STRIPS AND HARD SHELL DRY FRUIT WASTE AND ITS PRODUCT THEREOF	30-12-2024	Dr. Hammad Majeed, Prof. Dr. Tehreema Iftikhar, and Moviza Rizwan	10-01-2025
970/2024 (250110)	PROCESS FOR THE MAKING OF SESBANIA BISPINOSA JACQ W WIGHT SB STEM FIBER AND ITS PRODUCT THEREOF	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad Majeed and Qamar Abbas	10-01-2025
966/2024 (250110)	METHOD OF EXTENDED EDIBILITY OF GREEN CHILI PASTE USING NIGELLA SATIVA L AND ZINGIBER OFFICINALE L	30-12-2024	Dr. Hammad Majeed and Dr. Haq Nawaz Bhatti, Prof. Dr. Tehreema Iftikhar, Aneela Afzal, Dr. Zafar Saddiq, Khizar Qureshi and Dr. Khalil Ahmad	10-01-2025
955/2024 (250110)	PROCESS FOR THE PRODUCTION OF ALOE VERA L AV STEM FIBER AND ITS PRODUCT THEREOF	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad Majeed and Qamar Abbas	10-01-2025
971/2024 (250110)	PROCESS FOR THE FABRICATION OF LEATHER COMPOSITE MATERIAL LCM	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad	10-01-2025

	FROM DYED LEATHER WASTE AND SOFT SHELL WASTE AND ITS PRODUCT THEREOF		Majeed and Sabahat Boota	
969/2024 <b>(250110)</b>	PROCESS FOR THE MANUFACTURING OF TYPHA ANGUSTIFOLIA L TAL TEXTILE FIBER AND ITS PRODUCT THEREOF	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad Majeed and Maryam Batool	<b>10-01-2025</b>
956/2024 <b>(250110)</b>	PROCESS TO PREPARE TEXTILE FIBERS FROM MORUS ALBA L MAFS AND ITS PRODUCT THEREOF	30-12-2024	Dr. Hammad Majeed, Prof. Dr. Tehreema Iftikhar, and Zamzama Noor	<b>10-01-2025</b>
961/2024 <b>(250110)</b>	PROCESS TO SYNTHESIZE BIO PACKAGING ANTIBACTERIAL MATERIAL BPAM BY USING PEANUT SHELLS AND ITS PRODUCT THEREOF	30-12-2024	Dr. Hammad Majeed, Prof. Dr. Tehreema Iftikhar, and Hira Nadeem	<b>10-01-2025</b>
958/2024 <b>(250110)</b>	PROCESS TO MAKE FIBER OF SANSEVIERIA TRIFASCIATA PRAIN STP LEAVES AND ITS PRODUCT THEREOF	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad Majeed and Shamshad Fatima	<b>10-01-2025</b>
957/2024 <b>(250110)</b>	PROCESS FOR FORMULATING ANTIMICROBIAL BIOPLASTIC MATERIALS FROM AGRICULTURAL WASTE FOR FOOD PACKAGING AND ITS PRODUCT THEREOF	30-12-2024	Dr. Hammad Majeed, Prof. Dr. Tehreema Iftikhar, and Arooj Suleman	<b>10-01-2025</b>
967/2024 <b>(250110)</b>	METHOD OF MAKING TEXTILE FIBERS FROM ANANAS COMOSUS L MERR ACF LEAF AND ITS PRODUCT THEREOF	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad Majeed and Motiba Arshad	<b>10-01-2025</b>
973/2024 <b>250110)</b>	PROCESS TO MANUFACTURE ANTIBACTERIAL PACKAGING MATERIAL BY USING ALMOND SHELLS AND ITS PRODUCT THEREOF	30-12-2024	Dr. Hammad Majeed, Prof. Dr. Tehreema Iftikhar, and Huma Khalid	<b>10-01-2025</b>
964/2024 <b>(250110)</b>	METHOD FOR MAKING TEXTILE FIBERS FROM PSEUDO-STEM OF BANANA MUSA ACCUMINATA COLLA MAC	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad Majeed and Ambreen Hanif	<b>10-01-2025</b>
965/2024 <b>(250110)</b>	PROCESS FOR THE PRODUCTION OF ZINGIBER OFFICINALE ROSCOE ZOR FIBERS	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad Majeed and Asma Riasat	<b>10-01-2025</b>
959/2024 <b>(250110)</b>	METHOD FOR PRODUCTION OF ZEA BASED CROP MEAL AND ITS PRODUCT THEREOF	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad Majeed and Dur E Sameen	<b>10-01-2025</b>
962/2024 <b>(250110)</b>	METHOD FOR MANUFACTURING OF MORINGA EICHORNIA COMPOSITE FOR POTABLE WATER AND ITS PRODUCT THEREOF	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad Majeed and Khadija Shafique	<b>10-01-2025</b>
968/2024 <b>(250110)</b>	METHOD FOR PRODUCTION OF TRITICUM BASED CROP MEAL AND ITS PRODUCT THEREOF	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad Majeed and Nawera Aziz	<b>10-01-2025</b>
976/2024 <b>(250110)</b>	METHOD FOR PRODUCTION OF ZINC NANOPARTICLE PLEUROTUS PULMONARIUS COMPOSITE MOTHER SPAWN AND ITS PRODUCT THEREOF	30-12-2024	Prof. Dr. Tehreema Iftikhar, Dr. Hammad Majeed and Muhammad Bin Ali	<b>10-01-2025</b>
960/2024 <b>(250110)</b>	PROCESS TO PREPARE ANTIMICROBIAL FOOD PACKAGING MATERIAL AFPM BY USING SAGO THICKENER AND ITS PRODUCT THEREOF	30-12-2024	Dr. Hammad Majeed, Prof. Dr. Tehreema Iftikhar, and Shanza Fatima	<b>10-01-2025</b>

963/2024 <b>(250110)</b>	PROCESS FOR MANUFACTURING ARTIFICIAL LEATHER MATERIAL ALM FROM LEATHER AND FRUIT WASTE AND ITS PRODUCT THEREOF	30-12-2024	Dr. Hammad Majeed, Prof. Dr. Tehreema Iftikhar, and Treeza Farooq	<b>10-01-2025</b>
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### FILED IN 2023:

2. **PROF. DR. TEHREEMA IFTIKHAR** and Dr. Hammad Majeed. **Industrial Formulation of SVE and its production thereof.** [Receipt # 2302167405 dated: 27-11-2023] **FILED.** Patent Application #:804/2023.
3. **PROF. DR. TEHREEMA IFTIKHAR**, Dr. Hammad Majeed, and Muhammad Afzal Riaz. **“Crisculent development and production process thereof”** [Receipt # 2302166883 dated: 13-11-2023] **FILED.** Patent Application #:775/2023.
4. **PROF. DR. TEHREEMA IFTIKHAR**, Dr. Hammad Majeed, and Muhammad Haseeb Sajjad. **“Nutrient fortified delight (NFD) and its production process with OF and BRF”** [Patent Application #:749/2023 dated:- 30-10-2023].
5. Dr. Hammad Majeed, **DR. TEHREEMA IFTIKHAR** and Sidra Riaz, **“Pioneering Nutrient-Fortified Culinary Delight and Production Method”** [Patent Application #:718/2023 dated:- 18-10-2023] **FILED.** **[Revision submitted, May 2024]**
6. **PROF. DR. TEHREEMA IFTIKHAR**, Dr. Hammad Majeed, and Umar Farooq. **“Innovative Duad-Enhanced Functional Gastronomic Marvel (DEFGM)** [Patent Application No 653/2023 Dated: 27-9-2023, Journal Code: 231012]. **FILED.** **[Revision submitted, May 2024]**
7. **PROF. DR. TEHREEMA IFTIKHAR**, Dr. Hammad Majeed, Azka Kashif and Dr. Muhammad Zia-Ul-Haq. Eupepsia herbal formulation with *Mentha arvensis* L., *Mentha sylvestris* L., *Foeniculum vulgare* Mill., and *Elettaria cardamomum* L. **[Patent Application No 536/2023 Dated: 17-8-2023, Journal Code: 230825]. FILED.**

### FILED IN 2016:

8. Prof. Dr. F.M.Khan, Afia Alam, Kiran Zahid, Zaryab Khalid Sial, Sumaira Aslam Chohan, Shazia Kanwal Malik, Hannan Mukhtar, Prof. Dr. Zeb Siddique and **DR. TEHREEMA IFTIKHAR.** A process to estimate two genetic variations in two varieties of Petunia Plant. **”[Patent Application No.780/2016, Dated: 13-12-2016 posted on 21/12/2016]. FILED.**
9. Prof. Dr. F.M.Khan, Amber Shahzadi, Kiran Zahid, Zaryab Khalid Sial, Sumaira Aslma Chohan, Nudrat Anees, Riffat Siddique and **DR. TEHREEMA IFTIKHAR.** A process genetic analysis of control and salt stressed pumpkin (*Cucurbita maxima* L) using molecular markers. **”[Patent Application No.781/2016, Dated: 13-12-2016 posted on 21/12/2016] FILED.**
10. Prof. Dr. F.M.Khan, Saba Mehreen, Kiran Zahid, Zaryab Khalid Sial, Sumaira Aslma Chohan, Shazia Kanwal Malik, Yasmeen Jawaid, Nudrat Anees and **DR. TEHREEMA IFTIKHAR.** A process to distinguish healthy and infected mangoes using DNA markers.” **[Patent Application No.782/2016, Dated: 13-12-2016 posted on 21/12/2016] FILED.**

### FILED IN 2015:

11. Dr. Roheena Abdullah; Dr. Mehwish Iqtedar; **DR. TEHREEMA IFTIKHAR**, Dr. Afshan Kaleem and Prof. Dr. Shagufta Naz” Relating to “Process optimization and improvement of wild *Aspergillus niger* BT-9 strain through mutagenic treatment for enhanced production of a 1,4 D-glucan

glucanohydrolase" [Receipt No. 47078, Patent Application No. 168/2015, Dated: 26/03/2015 posted on 8<sup>th</sup> April, 2015] FILED.

12. Dr. Mehwish Iqtedar, Dr. Roheena Abdullah, Dr. Afshan Kaleem, DR. TEHREEMA IFTIKHAR, Ms. Mahwish Aftab, Prof. Dr. Shagufta Naz Lahore-Pakistan. An improved process for bioethanol production by the mutant *Saccharomyces cerevisiae* KM 11 strain [Application No. 516/2015 dated: 17/09/2015 posted on 25<sup>th</sup> August 2015] FILED.

## MEMBERSHIPS/POSITIONS

Position	Society	Year	Details
Fellow	Women Leadership program, Michigan State University, USA [10 month training]	2023	Sponsored by US Department of State
Focal Person	MoU b/w Department of Botany, GCU Lahore and Department of Medical Biology, Faculty of Medicine Nigde Ömer Halisdemir University, Nigde, Turkey	2020- 2023	Memorandum of Understanding Signed
Vice President, Punjab (Elected)	Pakistan Botanical Society	2018 -2022	National Honor
Fellow	The Biological Society of Pakistan	18-2-2021	Ref: 135/24/2021 dated: 18-2-2021 National Honor
Joint Secretary (Elected)	Pakistan Botanical society	2011-2012	National Honor/letter of appreciation
Life Member	Pakistan Botanical Society	Sr No. 203 dated: 10/10/2008	Certificate
Member	Horticulture Society, Govt. College, Lahore	1999-2001	Certificate of Merit
Member	Biological Society, Govt. College, Lahore	1999-2000	Certificate of Merit
Executive Member (Elected un-opposed)	Biological Society, Govt. College, Lahore	2000-2001	Certificate of Merit
Member	Environmental Protection Society, Govt. College Univ. Lahore	2001-2002	Certificate of Merit
Member	Biological Society of Pakistan in 1 <sup>st</sup> National Annual Conference	2002-2003	Certificate of Merit
Member	Biological Society of Pakistan in 2 <sup>nd</sup> National Annual Conference	2004-2005	Certificate of Merit
Member	World Wide Fund for NATURE-PAKISTAN (Membership # 9783)	15/06/2004-15/06/2005	Membership card issued
Member	Readers Club NATIONAL BOOK FOUNDATION (Membership # 632)	01/02/2005-30/06/2005	Membership card issued
Membership	Third World Organization of Women	-	

	Scientists (TWOVS)		
Liaison Officer	Ref: MoU b/w GCUF and WWFP	2005 to 2015	MoU Signed and once revitalized
Membership	OWSD [Organization of Women in Science in Developing World] (Membership # 3471, Type= Full)		Active
Membership	International Society of Substance Use Professionals	2023	Active/certificate
Membership	International Society of Substance Use Professionals	2023	Active/certificate

## ACADEMIC AWARDS and HONORS

Award/ FELLOWSHIP/GR ANT	INSTITUTE/COUN TRY VISITED	DURATION	AWARDED BY	REMARKS
Fellow of “Pakistan Women Leadership in Higher Education - Aspiring Leaders Cohort (Cohort 2)	<b>Islamabad, Pakistan</b>	Spring, Summer and Fall 2023	Visiting International Professional Program Michigan State University Sponsored by the U.S. Embassy in Islamabad <a href="http://vipp.msu.edu">vipp.msu.edu</a>	<p>1. Virtual synchronous and asynchronous learning on leadership during spring and summer 2023.</p> <p>2. Engagement with senior women mentors (Senior Women Leaders Cohort or Cohort 1) throughout the program.</p> <p>3. Participation in a three-day, in-person Pakistan Higher Education Women Leaders’ Summit in fall 2023 in Islamabad (final dates to be confirmed soon).</p> <p><b>Completed</b></p>

Awarded Certificate upon successful training of “Women Leadership Programme 2022”	‘National Academy of Higher Education (NAHE), Higher Education Commission, Islamabad, Pakistan	9 <sup>th</sup> to 13 <sup>th</sup> May, 2022.	Higher Education Commission, Islamabad, Pakistan	Availed
Post Doctorate Fellowship Award (PDFP), Phase II, Batch V	Cornell University, NY, USA	30 <sup>th</sup> June 2012 to 29 <sup>th</sup> June 2013	Higher Education Commission, Islamabad, Pakistan	Availed
Biotechnologies International Symposium “Which biotechnologies for south countries”	Oran <i>Algerie</i> , Africa	24-25 November 2007	HEC travel Grant Awarded for oral participation international conf.	Availed
IRSiP (International Research Support Initiative Programme)	Laboratory Of Microbiology & Biotechnology, Seoul National University, Seoul, SOUTH KOREA	Six Months (17 Feb 2007 to 10 Aug, 2007)	Fellowship Awarded by HEC (Higher Education Commission) Pakistan	Availed
International Life Sciences Students' Conference Warsaw 2008”	University of Warsaw (UW) and Warsaw University of Life Sciences (SGGW), POLAND	10 <sup>th</sup> to 14 <sup>th</sup> September, 2008	HEC Travel grant awarded	(Delayed by HEC) un-availed

#### NON ACADEMIC AWARDS

AWARD	TITLE OF COURSE	YEAR	INSTITUTE
Certificate			
Certificate Post Graduate Diploma (1 Credit Hour/ 3 day course)	“Academic writing for publication” in higher Education Teaching	4-6 <sup>th</sup> March, 2015	Conducted by DFDI, LCWU, Lahore (Dr. Seemi Aziz, University of Arizona)
Certificate of English Language	International Student Organization, ithaca NY, USA	2012-2013	Cornell University, Ithaca, NY, USA
CERTIFICATE & 1 <sup>st</sup> Position for punctuality in class	Korean Language Course	2007 (Passed on 8 <sup>th</sup> of June)	International Student Foundation, Seoul National University, SEOUL, South Korea and

			Government of Korea
CERTIFICATE	<b>Master Trainer</b> Course under the <b>Intel Teach to the Future</b> Program	06-03-2004 to 07-03-2004	Intel, Pakistan
CERTIFICATE & Best student award.	Computer Application	2003	<b>Edge System International, Lahore Campus</b>
CERTIFICATE	English Language Course	2003	<b>Kipling Center, Lahore Branch</b>

## INDUSTRIAL COLLABORATION DEVELOPED

Name of Industry	Focal Person	Letter issued
Noor Fatima Fabrics (Pvt) Limited	Zafar Iqbal (Manager R&D)	31-10-2017
Koh-e-Noor textile Mills, Manga Raiwind Road Lahore	Mr. Farooq Ahmad (Manager Quality Control and lab)	Since 2020
Nippon Paints Limited	Mr. Muhammad Usman (Business and Technical Manager)	Since 2020
Cakes and Bakes	Mr. Mustajab, General Manager	Since 2022
Diamond Paints	Mr. Faheem A Khan, GM Operations	Research testing done
University Management and Technology, Campus	Dr. Hammad Majeed	Research Scaleup works

## UNIVERSITY & PUBLIC SERVICE ACTIVITIES

- **External Evaluator**, for the Audit of Self Assessment Reports (SARs) of the four Academic programmes Offered at Institute of Botany, University of the Punjab [Audit held on **17-10-2024** from 10 am to 2pm]. [D/498/QEC dated: 11-10-2024].
- **External Member** for HAT/GRE test preparation for MPhil and PhD in the discipline of Botany at University of Veterinary and Animal Sciences, Lahore [DAS/1049 dated: 24-7-2024]
- **External Member**, DDPC [Departmental Doctoral Program Committee], The Women University, Multan, [No.1-24/ACAD-III/DPC/notification/WUM/133-D dated: **27-5-2024**].
- Co-Opted member, as Subject Expert, Selection Board of Assistant Professor, **THE WOMEN UNIVERSITY, MULTAN** (March, 27-2-2020].
- Member, Eminent Scholar, “Institutional Scholarship Award Committee [ISAC]”, UVAS, Lahore DUA&FA/FA 5253 dated: 11-2-2020 (Feb, 2020).
- Subject Expert Selection Board “**QUEEN MARRY COLLEGE, LAHORE**” (2015)
- Incharge University QUIZ Society, GC University Faisalabad (**2009 - 2010**).
- **Awarded Shield for active participation** & Prize winning of students of Federal Girls Hall, GC University, Faisalabad at “7<sup>th</sup> Annual Athletics meet **2009**” organized by Directorate of Sports, GC University, Faisalabad.
- Participated in the Elections of Academic Council, GC University Faisalabad for the post of Lecturer Held in **2009**.
- **Received Performance Award** for organizing “Earth Week 2008”, in collaboration with Department of Environmental Science, GC University, Faisalabad.
- **Received Shield of Excellence** as Member organizing Committee on “Environment Week 2008” in collaboration with Department of Environmental Science, GC University, Faisalabad.
- **Awarded certificate** on “**Best of Show in Crossing A MILESTONE**” for the acknowledgement of the valuable services rendered to the University, on the eve of the Annual University Faculty Dinner on **10<sup>th</sup> June 2006** by GC University Faisalabad.
- **Awarded Shield** for Stall of “WWF-EPS” on 3<sup>rd</sup> Technology Fair 2005, GC University Faisalabad.
- **Second prize (Fresh Flower Arrangement)** in agriculture exhibition organized by **DIRECTORATE OF FLORICULTURE (T & R), PUNJAB** in connection with the National horse and cattle Show, 2004 events held on **16<sup>th</sup> February 2004 (Shield Awarded)**.
- **Special prize (Dry Flower Arrangement)** in agriculture exhibition organized by **DIRECTORATE OF FLORICULTURE (T & R), PUNJAB** in connection with the National horse and cattle Show, 2004 events held on **16<sup>th</sup> February 2004 (Shield Awarded)**.
- **Got 2<sup>nd</sup> prize** in poster competition in **First National Annual Conference (March 28 – 30, 2002)** organized by **BIOLOGICAL SOCIETY OF PAKISTAN**.
- Photographic Exhibition. “**Certificate of Merit**” (1995-1996).
- **Student Editor** (English Section of JUSTJOO) “**Certificate of Merit**” 1998-1999. Govt. College of Education for Science Township, Lahore.
- **Sub Editor** of **SCIENTIFIC RAVI** “**Certificate of Merit**” for the year 2000. Govt. College Lahore.

- **Articles published** in Ravi (Ghazals), Scientific Ravi and Justjoo (1996-2002).

Sr.No	Additional Assignments	SERV ICES REN DER ED TO GC UNIV ERSI TY FASA LAB AD
1.	Secrecy Officer, (Office of the Controller of Examination), (March 2004 to March 2005)	
2.	In-Charge “Environment Protection Society”, GCUF (Directorate of Students Affairs), 2004-2007	
3.	Member, Dress code committee, (Ref.#: GCUF/Reg/10/01 dated: 4-1-2010).	
4	Member, Committee for the conduct of exams (2008)	
5	Deputy Warden, Federal Girls Hostel	
6	Superintendent, Federal Girls Hostel, 2 <sup>nd</sup> November 2007—3 <sup>rd</sup> November 2008 & 27 <sup>th</sup> Jan 2009 – June 2009	
7	Member, Biotechnology Group	
8	Member, Quality Enhancement cell	
9	Liaison Officer from GCUF, MoU b/w GCUF & WWFP	
10	Incharge , Quiz Society, (Directorate of Students Affairs) (Since 2009)	
11.	Member, University Entertainment Committee	
12	Departmental Representative for Directorate of Students Affairs	
13	Secretary, DSAC Committee (Directorate of Students Affairs) (Since 2009)	
14	Member, “Faculty Board of Faculty of Science and Technology	
15	Warden, Paramedics and Jinnah Colony/Civil lines, Since 1 <sup>st</sup> Nov 2010 To June 2011	

### **ASSIGNMENTS AT DEPARTMENT OF BOTANY GC UNIVERSITY FAISALABAD**

Sr.No	Assignments
1.	Teaching
2.	Research
3.	Development of Curricula
4.	Member Board of Studies in the subject of Botany, 2005-2010
5	Member, Discipline Committee
6	Incharge Botanical Society, 2009-todate

7	Member, Thesis Scrutinizing Committee
8	Member, Departmental Books Selection & purchase Committee
9	Member, Departmental Laboratory equipment, Glassware & Chemical Selection & purchase Committee
10	Incharge & Member, Stock checking & maintenance Committee
11	Incharge, Imprest Money maintenance
12	Incharge Departmental Library of Botany, (2004-2007)
13	SECRETARY, Departmental student affairs committee (DSAC)

**SERVICES RENDERED/ASSIGNMENTS AT LAHORE COLLEGE FOR WOMEN UNIVERSITY  
LAHORE**

<b>Sr. No</b>	<b>Assignments</b>	<b>Notification (if any)</b>
1.	Team leader Self-Assessment Report Phase V	REG/LCWU/1609 Dated: 29 June 2018
2.	Managing Editor (Production), "Journal Plantarum" approved by ASRB, LCWUL	Reg/LCWU/1191 dated: 15-05-2018
3	Secretary, Departmental Doctoral Committee	Reg/LCWU/817 dated: 7-04-2017
4	Member, Departmental test Construction Committee	Reg/LCWU/779 dated: 05-04-2017
5	Member, departmental Purchase Committee	Reg/LCWU/630 dated: 17-03-2017
6	Departmental Tenure Review Committee	Reg/LCWU/427 dated: 23-01-2015
7	Coordinator Department of Biology, KSK Campus LCWUL	Bot/LCWU/216 dated 20-3-2015
8	Member Ethical Committee	-
9	Coordinator PhD programme 2016 onward	-
10	Member, Board of Studies, Department of Botany, LCWUL since Jan 2015	Bot /LCWU/255 dated: 29-09-2017
10	Member, "Event organizing Committee"	-
11	Member "Scrutiny Committee"	-
12	Incharge "Laboratory of Mycology and Biotechnology"	-
13	Member "Annual Stock Checking Committee"	-
14	Member, Departmental ORIC & Research Committee	-
15	Member, Departmental PhD Committee	-
16	Member, Departmental Selection Board Committee	-
17	Member, Departmental TTS Committee	-
18	Member, Departmental Curriculum Committee	-
19	Member, Departmental BOS and ASRB Organizing Committee	-
20	Member, Departmental Affiliated Colleges Committee	-
21	Occasional duties assigned by Chairperson Department of Botany	-

<b>NATIONAL &amp; INTERNATIONAL SYMPOSIA/ CONFERENCES/EVENTS/WEBINARS ORGANIZED/PARTICIPATED</b>			
Position	Event	Organized by	
Focal person/Session Chair	3 <sup>rd</sup> International Conference, RAPS 2025 held on 12-13 <sup>th</sup> November, 2025	University of Education, Lahore	
Project Lead 1 <sup>st</sup> Position 3 <sup>rd</sup> Position Cash award, Hadeed pvt ltd Qadbro, Pvt, ltd Held on 23 <sup>rd</sup> and 24 <sup>th</sup> April 2025	10 <sup>th</sup> Invention to innovation Summit 2025 Stall 52: 56HC: Sustainable Nutritional Innovation: Transforming Snack Production for Health and Food security; Category: Health and Clinical Sciences. 57S: Sustainable Fiber revolution: Harnessing Plant based and waste-derived materials for a greener future. Category: Sustainability 58EE: Green Coagulation Technology: A sustainable approach for heavy metal and microbial removal from Potable water. Category: Energy and Environment [poster Award+ Cash Award by Hadeed] 59 ENGG: Natural Preservation Strategies: Enhancing Food Shelf life with bioactive plant extracts.category: Engineering Technologies Stall 52: Aloe vera Technical Textiles startup [overall 3 <sup>rd</sup> position award + Cash award by Qadbro] Project COLead: Dr. hammad Majeed UMT Sialkot Campus, Lahore	Organized by University of the Punjab, Lahore Participants: Muhammad Bin Ali Arsalan Ahmad Sehar Fatima Laiba Liaqat Zamzama Noor Qamar Abbas	
Project Lead of 5 stalls At Punjab Innovation and technology Expo 2025 on 21 <sup>st</sup> April 2025	PC387: Development of Polyherbal candy formulation and its Phtochemical Profiling cum Nutriotional Evaluation for treatment of Hemorrhoids PC388: Development of Zinc fortification of oyster mushroom (Pleurotus sp.) Biscuits PC391: Development and Analysis of a Functional Beverage Using Beetroot, Moringa, Apple and Lemon PC393: Development and analysis of bioactive functional crackers using moth bean flour, buckwheat flour and chickpea flour. PC 394: 7-Fold Enhanced Lipase Production Using Mucor sp. Isolated from Oil-Roasted Bread	Organized by PHEC, PINTECH and Punjab HED at Expo Centre, Lahore Participants: Muhammad Bin Ali Arsalan Ahmad Sehar Fatima Laiba Liaqat Saher Yashfa Nawaz	
Invited Talk	Harmonizing Research Endeavors with Sustainable Development Goals for Societal Progress, held on 19 Feb. 2025,	Organized by Department of Botany, LCWU, Lahore	
Invited Talk	9 <sup>th</sup> International and 18 <sup>th</sup> National Conference on capitalizing Plant diversity for ensuring food security, held on 28 <sup>th</sup> to 30 <sup>th</sup> Oct 2024,	organized by Botanical Society of Pakistan at BZU, Multan, Pakistan	
Member, National Organizing	1 <sup>st</sup> International Conference on Applied Sciences and Technology [ICAST-2024], Cross Disciplinary Approaches in Research and Innovation for Sustainability, 24-25 Oct, 2024	Organized by Baba Guru Nanak University, Nankana Sahib, Punjab, Pakistan	

Committee		
Key Note talk	Entitled “ <b>Combining Nutrition and Sustainability to Mitigate Food Insecurity</b> ”, An International Webinar on “Biodiversity and food Security”, <b>3<sup>rd</sup> and 4<sup>th</sup> June, 2024</b>	organized by Department of Botany, University of Sargodha, Sargodha.
Organizer + Presenter	Advances in Biosciences, organized by Biological Society of Pakistan, <b>3 Posters Presented</b> by: 1) Durre Sameen, 2) Qamar Abbas and 3) Muhammad Zohaib]. <b>18<sup>th</sup>-19<sup>th</sup> April, 2024</b>	held at Government College University Lahore.
<b>Keynote Lecture</b>	Two days International Symposium on medicinal Plants and Natural Products.. ISMPNP-7“Potential of applied botany in modern innovations, Published in abstract book [ISBN: 978-627-7502-12-6]. <b>March 7-8, 2024</b>	<b>Organized by UAF.</b>
<b>Invited Speaker</b>	4 <sup>th</sup> International conference on Physical Sciences and Engineering, 14-16 February, <b>2024</b>	Khawaja Fareed, UEIT, Rahim Yar Khan
Organizer and Participant	2 <sup>nd</sup> International Conference on Recent Approaches in Plant Sciences [RAPS] in Collaboration with, 5 Posters and 1 Oral [Muhammad Bin Ali (ORAL), Tehmina Bashir, Qamar Abbas, DureSameen, Ayesha Bano, Hafiza Rimsha Sarwar Posters]. 4 <sup>th</sup> - 5 <sup>th</sup> May 2023	Biological Society of Pakistan
Session Chair	FABS 2023, National Conference on frontiers in Applied Biological Sciences, December 13 <sup>th</sup> -14 <sup>th</sup> , 2023	Department of Biology, Lahore Garrison University, Lahore
Advisor/Focal person/Chief organizer	Community structure Affecting Climate change. <b>Prof. Dr. Ashfaq Ahmad</b> , University of Dhaka, Bangladesh. <b>30<sup>th</sup> March, 2023</b> .	Dr. Sultan Ahmad Botanical Society, Government College University Lahore
Advisor/Focal person/Chief organizer	Impact of improper Electronic Waste Management on Human Health and Plants. <b>Syed Zharif Uddin Ahmed</b> . CEO and Lead Researcher Ecotopia Consultancy and Solution, Bangladesh. <b>3<sup>rd</sup> April, 2023</b>	Dr. Sultan Ahmad Botanical Society, Government College University Lahore
Advisor/Focal person/Chief organizer	Significance and Cultivation of Carnivorous Plants. <b>Jacob Soule</b> Western Mischigan University, Michigan USA. <b>7<sup>th</sup> April, 2023</b>	Dr. Sultan Ahmad Botanical Society, Government College University Lahore
Advisor/Focal person/Chief organizer	Recent advances in Photosynthesis Research. <b>Dr. Vineet Soni</b> . Associate Professor and Head Department of Botany, Mohanlal Sukhadia University.Udaipur, Rajasthan, India. <b>10<sup>th</sup> April, 2023</b>	Dr. Sultan Ahmad Botanical Society, Government College University Lahore
Advisor/Focal person/Chief organizer	BIOFERTILIZERS IN AGRICULTURE. <b>Dr. Ali Asger Bhojiya</b> . Skilled in Molecular Microbiology, Bioinformatics, Molecular Biology, Biotechnology, and Cell Culture techniques. <b>11<sup>th</sup> April, 2023</b> .	Dr. Sultan Ahmad Botanical Society, Government College University Lahore
Advisor/Focal person/Chief organizer	POSTCARD PRODUCTION USING LIFE-FORMS <b>Deborah S. Miller</b> . Latin and Spanish Teacher, Writer, Various handicraft Trainer and Postcard Artist Ithaca, Newyork. <b>13<sup>th</sup> April, 2023</b>	Dr. Sultan Ahmad Botanical Society, Government College University Lahore
Advisor/Focal person/Chief organizer	GREEN SYNTHESIS <b>DR. UMAR MUHAMMAD BADEGGI</b> . Professor at IBB University, Lapai. <b>14<sup>th</sup> April, 2023</b>	Dr. Sultan Ahmad Botanical Society, Government College University Lahore
Advisor/Focal person/Chief organizer	Green Fashion <b>Dr. Hammad Majeed</b> Professional with over 20 years of experience in forestering university. Industry collaborations and domains. Implementing sustainable circular economy practices in diverse industry. <b>16<sup>th</sup> April, 2023</b>	Dr. Sultan Ahmad Botanical Society, Government College University Lahore
Advisor/Focal person/Chief organizer	Impacts of urban green spaces on young people's wellbeing . <b>DR. FERDOUSI KHATUN</b> Independent consultant Visiting Researcher at The - Environmental Education research International Centre for	Dr. Sultan Ahmad Botanical Society, Government College University Lahore

	Climate Change and Development (ICCCAD), Bangladesh. <b>17<sup>th</sup> April, 2023</b>	
Advisor/Focal person/Chief organizer	Recent Advances in Applied Botany. <b>Prof. Dr. Mushtaq Ahmad.</b> Among the top 2% influential scientists in the world. Professor of Plant Sciences (Bioenergy, Plant Systematics, Biodiversity, Conservation, Applied Phyto Nano Technology. <b>18<sup>th</sup> April, 2023</b>	Dr. Sultan Ahmad Botanical Society, Government College University Lahore
Advisor/Focal person/Chief organizer	Nutraceuticals as Functional Food. <b>Dr. Shahzad Basra.</b> He is among the leading social mobilisers of Pakistan who are promoting healthy lifestyle. <b>19<sup>th</sup> April, 2023</b>	Dr. Sultan Ahmad Botanical Society, Government College University Lahore
As Focal Person/Organizer	2 <sup>nd</sup> International Conference on Recent Approaches in Plant Sciences [RAPS] in Collaboration with Biological Society of Pakistan, <b>4<sup>th</sup> -5<sup>th</sup> May 2023</b>	Biological Society of Pakistan, University of Education, Lahore
As Organizer,	17 <sup>th</sup> national and 8 <sup>th</sup> International Conference by Botanical Society of Pakistan, <b>26 to 28 October 2022</b> , Organized Jointly at GCU Lahore and Punjab University Lahore, Pakistan.	Department of Botany, GCUL and PU Lahore
Participant	Member Peer review committee, 17 <sup>th</sup> national and 8 <sup>th</sup> International Conference organized by Pakistan Botanical Society, <b>26 to 28<sup>th</sup> October 2022.</b>	Department of Botany, GCUL and PU Lahore
Keynote Talk	International Conference on interdisciplinary Research Innovations. <b>26 to 28<sup>th</sup> October, 2022.</b>	University of Agriculture Faisalabad
Member Peer review committee	17 <sup>th</sup> National and 8 <sup>th</sup> International Conference organized by Pakistan Botanical Society, 3 Oral presentations (by Tehmina Bashir, Maria Mubarak and Nuzhat Jabbar)	<b>26 to 28<sup>th</sup> October 2022</b>
Participant	Participated, Poster Competition, "Smart Plantation" An ultimate Solution to climate Change, ICSP-2020. Organized by Department of Botany, LCWU, Lahore dated: <b>2-4 March, 2020.</b>	<b>Poster, 3<sup>rd</sup> Prize</b>
Participant	Certificate of Achievement for reaffirming a dedication to serve in time of crisis through continued professional development and completion of the course "Flood Disaster Treatment – Master Class" Dated: 05 September 2022.	online
Participant	Research Methods workshop by Dr Aneeq Ahmad, held at dept of Psychology, 19 to 20 <sup>th</sup> May 2022.	Department of Psychology, GCU Lahore
Chief Organizer	Two day workshop on "Promoting Research Excellence in Academics across Pakistan" (1st and 2nd February, 2022) at Higher Education Commission, Pakistan, on Wednesday 02 February, 2022 Presented by Vishal Gupta, Dr. W Mahmood, Dr. N Hasan, Dr. M Jahangir and Dr. S Narula.	Online
Resource person and Chief organizer	Non-Timber Forest Product for Industrial Applications, Three Days Workshop of Sericulture Executive Staff from Punjab held in Lahore, on 9-11-2021 to 11-11-2021.	Punjab Forest Department, Government of Punjab, Pakistan
Session Co-Chair	International Online Conference "Dynamic strategies in Plant Sciences for crop sustainability and Food Security" held on 26-27 May, 2021	Department of Botany, GC Women University, Faisalabad
Guest of Honor	One day International Webinar on "Role of Youth in Global Biodiversity Conservation on 21-5-2021	Government College University Lahore
Guest of Honor	Webinar on "Rooftop Gardening on 24-4-2021	Government College University Lahore
Chief organizer/ Co-patron	International Webinar on "Molecular Pathways of Cathepsin B in Aging and Alzheimer's Disease by Dr. Junjun Ni, Beijing Institute of technology, Beijing China on 22-04-2021.	Department of Botany, Government College University Lahore

Chief organizer/ Co-patron	One Day International webinar organized on 5-4-2021, entitled “Legumes as a source of energy and nutraceuticals” by Prof. Giovanni Caprioli, School of pharmaceutical Sciences, and Health Products, University of Camerina, Camerino, Italy.	Department of Botany, Government College University Lahore
Chief organizer	Webinar on “Drug Awareness & Stress Management” on 12-12-2020.	Government College University Lahore
Chief Organizer	One Day International Seminar and Interaction session on “Smart Nitrogen In Modern Crop Production” by Prof. Dr. Tarlook Singh Sahota [Director Agricultural Research Station, Lakehead University Canada] held on 3-3-2020.	Department of Botany, GCUL
Chief Organizer	One Day International Seminar on Advances in Plant Sciences on “Biodiversity and climate change: our home is on fire” by Prof. Dr. Munir ozturk [prof. (em.) Botany, Ege University, Izmir, Turkiye, Vice President of the Islamic World Academy of Science, Amann-Jordan] held on 3-3-2020.	Department of Botany, GCUL
Co-Chair	“Smart Plantation” An ultimate Solution to climate Change, ICSP-2020 on dated: 2-4 March, 2020.	Department of Botany, LCWU, Lahore
Chair	1 <sup>st</sup> International Conference on “Recent Advances and Challenges in Basic and Social Sciences in Contemporary Research”, February 12-13, 2020	Govt. Post Graduate Islamia College (Women) Cooper Road, Lahore.
Guest of Honor and participant	One day seminar on “A new model of metabolic syndrome, Diabetes, inflammation and cancer development: The Metabolic and Nutritional Axis” by Prof. Lone. on 24-2-2020.	Biological Society, Government College University Lahore
Guest of Honor and participant	One day seminar on “Quranic Flora and Its identification” by Abid Nadeem. on 24-2-2020.	Biological Society, Government College University Lahore
Chief organizer	One day international seminar on “Application Of Phytochemicals For Cancer Treatment” by Prof. Dr. Zeliha Selamoglu, Department of Medical Biology, Faculty of Medicine, Nigde Ömer Halisdemir University, Nigde, Turkey and Dr. Azhar Rasul from GCUF] held on 28-11-2019.	Department of Botany, GCUL
Session Chair	International Conference on “Water Saving and Plant production Strategies Strategies: Constraints and Implications for Sustainable Agriculture” on dated: 26-28 March, 2019	Department of Botany, GC University, Faisalabad
Co-organizer	Inter University, floral art competition 2018	Department of Botany, LCWUL
Co-organizer	Inauguration of Botanic garden 2018	Department of Botany LCWU, Lahore
Participant	Participated in “Biosciences 2018” organized by “Pakistan Biological Society” at GCU Lahore from 9-11 May 2018	(2 Oral presentations)
Participated and attended	10 hours workshop “Patent Claims and Drafting techniques” Conducted by Ms. Shakra Khurshid in May-Oct, 2017,	Faculty development Centre, Lahore College for Women University, Lahore
Invited Speaker	1 <sup>st</sup> International Conference on “Plants: Their Chemical and Biological Applications for today and tomorrow” dated: 12-14 April, 2017.	Department of Botany, University of Gujrat, Gujrat,
Co-organizer	Seminar, on Forests: Nature’s power house 31 March 2017	Department of Botany, LCWUL
Co-organized	5 <sup>th</sup> Floral Art competition 9 <sup>th</sup> March 2017	Department of Botany,

		LCWUL
Invited speaker	International conference titled “Plants; Their Chemical and Biological Applications for Today and Tomorrow” to be held on 12-14th April, 2017	Department of Botany, University of Gujarat, Gujarat.
<u>Participant</u>	Participated in 4 <sup>th</sup> International conference of Botany & 14 <sup>th</sup> National Meeting of Plant Scientists, at University of Karachi, Karachi organized by Pakistan Botanical Society, from Jan, 16 <sup>th</sup> to 18 <sup>th</sup> , 2016	(3 POSTERS; 3 ORAL)
Certificate of participation	2 <sup>nd</sup> International Conference on Biotechnology: Challenges and opportunities in Pakistan, 24-25 <sup>th</sup> February, 2016.	University of South Asia Lahore.
Certificate of participation	On campus HEC Indigenous training for 2 <sup>nd</sup> to 20 <sup>th</sup> November, 2015.	LCWU in collaboration with Higher Education Commission, Pakistan
Certificate of participation	One day Training workshop on “Essentials of Project management for Academic Excellence” on 17 <sup>th</sup> November, 2015 speaker Mr. Khurram Ghori Consultant PMP.	LCWU, Lahore by prudential Solutions for project Solution
Certificate of participation	“Time Management” a training course 01 Credit Hour, 03 Day training from 25 <sup>th</sup> – 27 <sup>th</sup> May, 2015. Dr. Muhammad Ali Noor, DG, PPMMI.	Pakistan planning and management institute, Islamabad (PPMI), Govt. of Pakistan, Ministry of Planning, Development and reform,
Certificate of participation	Awarded “Disaster Management and Emergency Response” held on 10 <sup>th</sup> March, 2015 organized by Center for Learning and Teaching,	Forman Christian College, Lahore (Harvard SAI Webinar).
Certificate of participation	“Academic Writing for Publication” LCWU, Post graduate Diploma in Higher education teaching [ 01 credit hour], 3 days course 4 <sup>th</sup> to 6 <sup>th</sup> March, 2015, Resource Person Dr. Seemi Aziz, University of Arizona, USA.	DFDI, LCWU, Lahore Pakistan
Oral Participant	Exploitation of wild and mutant strains of <i>Fusarium</i> sp. For enhanced lipolytic potential. <u>Tehreema Iftikhar</u> , Mubashir Niaz, Sidra and Syed Qaiser Abbas. 3 <sup>rd</sup> International conference on “Climate Change and Plant diseases: Challenges and Opportunities” at Department of Agriculture and Agribusiness management,	Organized by Pakistan Phytopathological Society, University of Karachi, Karachi from Jan. 23 <sup>rd</sup> to 25 <sup>th</sup> , 2014.
Oral Presenter	Addition to fungal records on <i>Citrus</i> sp. from Pakistan. Mubashir Niaz, <u>Tehreema Iftikhar</u> , Maida Sana and Syed Qaiser Abbas. In in 3 <sup>rd</sup> International conference on “Climate Change and Plant diseases: Challenges and Opportunities” at from Jan. 23 <sup>rd</sup> to 25 <sup>th</sup> , 2014 (Submitted)	Department of Agriculture and Agribusiness management, organized by Pakistan Phytopathological Society, University of Karachi, Karachi
Certificate of participation	Certificate of participation awarded “1st International Conference on Applied Chemical, Biological and Aquatic Life Sciences” 18 <sup>th</sup> Feb to 20 <sup>th</sup> Feb., 2014,	GCU Faisalabad.
participant	Attended 2 <sup>nd</sup> International Conference on Global environmental Challenges, held at [25-26 Feb 2014]	Department of environmental sciences, Government College university Faisalabad
Certificate of participation	Participated in two day workshop on scientific communication held on April 7 <sup>th</sup> - 8 <sup>th</sup> 2014.	ORIC, GCU Faisalabad
Certificate of participation	Participated in 5 <sup>th</sup> one day workshop on Bioinformatics, May 10 <sup>th</sup> , 2014.	Department of Bioinformatics, Muhammad Ali Jinnah University, Islamabad

Participant	Participated in 3 <sup>rd</sup> International conference of Botany & 13 <sup>th</sup> National Meeting of Plant Scientists, at Shaheed Benazir Bhutto University, Shringel, Upper Dir organized by Pakistan Botanical Society, from Aug. 27 <sup>th</sup> to 30 <sup>th</sup> , 2014	(3 POSTERS; 2 ORAL).
Poster and oral participation	<b><u>Participated in 3<sup>rd</sup> International conference on “Climate Change and Plant diseases: Challenges and Opportunities”</u></b> from Jan. 23 <sup>rd</sup> to 25 <sup>th</sup> , 2014 (Awarded first prize (Shield) in Poster competition)	Organized by Pakistan Phytopathological Society, at Department of Agriculture and Agribusiness management, University of Karachi, Karachi
	<ol style="list-style-type: none"> <li>1. Mubashir Niaz, <b>Tehreema Iftikhar</b>, Fareeha Fatima and Rabia Khan. <i>Rhizopus oligosporous</i> – a potential candidate for extracellular lipase production.</li> <li>2. <b>Tehreema Iftikhar</b>, Mubashir Niaz, Mariam Iftikhar and Durr-e-Nayab. Studies on the lipolytic potential of <i>Alternaria alternata</i>.</li> <li>3. Mubashir Niaz, <b>Tehreema Iftikhar</b>, Maria Aleem and Muhammad Kamran Bashir. Studies on extracellular lipase biosynthesis by a wild culture of <i>Bacillus subtilis</i>.</li> <li>4. <b>Tehreema Iftikhar</b>, Mubashir Niaz, Bushra Tabassum and Qurat-ul-Ain Rahat Production potential of <i>Alternaria alternata</i> for intra- and extracellular lipases.</li> </ol>	
Oral and Poster Presentations	Participated in 3 <sup>rd</sup> International conference on “4 <sup>th</sup> International and 13 <sup>th</sup> national Conference of Botany” from Jan. 27 <sup>th</sup> to 30 <sup>th</sup> 2014, [poster and 2 orals].	at Department of Agriculture and Agribusiness management, organized by Pakistan Botanical Society, Shaheed Benazir Bhutto University, Shringel, KPK.
Certificate of participation	Certificate of participation awarded “International Conference on Emerging issues in nutrition and food safety” on 21-23 October, 2013,	National Institute of Food Science & Technology, University of Agriculture, Faisalabad-Pakistan
Certificate of participation	Attended Cornell University-Kyoto University Joint Symposium on Bioactive Food Components on March 5, 2013.	Cornell University, Ithaca, NY, USA
Poster Participation	Participated in 11 <sup>th</sup> Biennial Conference on “Biosciences-Challenges and Opportunities” from 25 <sup>th</sup> to 28 <sup>th</sup> November, 2013	Organized by Pakistan Society for Biochemistry and Molecular Biology held at School of Biological Sciences, university of Punjab, Lahore
	<ol style="list-style-type: none"> <li>1. Nayab Shahid, <b>Tehreema Iftikhar</b>, Mubashir Niaz, Yasir Hussain and Zaib un Nisa. Comparative studies on the biosynthesis of triacylglycerol acylhydrolases by a wild and mutant strains of <i>Aspergillus niger</i> through submerged fermentation technique.</li> <li>2. Sidra, <b>Tehreema Iftikhar*</b> and Mubashir Niaz. Nitrous acid mutagenesis of <i>Fusarium</i> sp. for enhanced lipolytic potential</li> </ol>	
Oral Presenter	Mubashir Niaz & Tehreema Iftikhar. 2 <sup>nd</sup> to 4 <sup>th</sup> February, 2012. Role of Botanic Gardens in Conserving Natural Vegetation, 3 <sup>rd</sup> International Conference.	Organized by Pakistan Botanic Gardens Network Secretariat. GC University, Lahore.
Oral and Poster Participation	Participation in 3 <sup>rd</sup> International Conference of Plant Scientists” & 12 <sup>th</sup> National Meeting of Plant Scientists, from 1 <sup>st</sup> to 3 <sup>rd</sup> September, 2012. (Posters) 19. Two oral	Held at Department of Biotechnology, Qaid-e-Azam University, Islamabad
	1. PPBB 61: <b>Tehreema Iftikhar</b> , Mubashir Niaz, Qamar Batool	

	<p>and Muhammad Anjum Zia - Biosynthesis of triacylglycerol acyl hydrolases by <i>Penicillium citrinum</i> through submerged fermentation technique</p> <ol style="list-style-type: none"> <li>2. PPBB 62 : <u>Tehreema Iftikhar</u>, Mubashir Niaz and Maria Naqvi and Rukhsana Jabeen - <i>Biosynthesis of amyloglucosidase by Penicillium citrinum using solid substrate fermentation technique</i></li> <li>3. PPBB 63 : <u>Tehreema Iftikhar</u>, Mubashir Niaz, Asma Tariq and Mariam Iftikhar - Comparative studies on the biosynthesis of triacylglycerol acylhydrolases by a wild and mutant strain of <i>Penicillium chrysogenum</i> through submerged fermentation technique</li> <li>4. PPBB 64 : <u>Tehreema Iftikhar</u>, Mubashir Niaz, Yasir Hussain and Zaib un Nisa - Comparative studies on the biosynthesis of triacylglycerol acylhydrolases by a wild and mutant strains of <i>Aspergillus niger</i> through submerged fermentation technique</li> <li>5. PPBB 65 : <u>Tehreema Iftikhar</u>, Mubashir Niaz, Hina Sarwat and Faiza Akram - Comparative studies on the lipase biosynthesis of wild and mutant strains of <i>Trichophyton</i> sp. (MBL 23) through submerged fermentation</li> <li>6. PPBB 66 : <u>Tehreema Iftikhar</u>, Mubashir Niaz, Shamoona Shahid and Muhammad Asad ullah Fazal - A comparative account of two ascomycetous fungi for the biosynthesis of b-D-fructofuranoside fructohydrolase through solid state fermentation technique</li> <li>7. PPBB 67 : <u>Tehreema Iftikhar</u>, Mubashir Niaz, Qurat-ul-Ain Rahat and Muhammad Anjum Zia - Process optimization for the biosynthesis of b-D-fructofuranoside fructohydrolase by a locally isolated culture of <i>Alternaria alternata</i></li> <li>8. PPBB 68: <u>Tehreema Iftikhar</u>, Mubashir Niaz, Muhammad Khan Rafiq and Rukhsana Jabeen -Studies on the biosynthesis of triacylglycerol acyl hydrolases by <i>Penicillium</i> sp. isolated from pickle (MBL-40) through solid substrate fermentation technique</li> <li>9. PPBB 69: <u>Tehreema Iftikhar</u>, Mubashir Niaz, Anila Nureen and Roheena Abdullah - Production, partial purification and characterization of triacylglycerol acyl hydrolases by <i>Fusarium</i> sp. Under submerged fermentation techniques</li> <li>10. PPBB 70: <u>Tehreema Iftikhar</u>, Mubashir Niaz, Anam Anwar and Zahid Butt - Process optimization for the biosynthesis of b-D-fructofuranoside fructohydrolase by a locally isolated culture of <i>Rhizopus oligosporus</i></li> <li>11. PPBB 71: <u>Tehreema Iftikhar</u>, Mubashir Niaz, Maria Aleem and Amber Imtiaz - A comparative account of fermentation techniques for the biosynthesis of triacyl glycerol acly hydrolases by awild strain of <i>Bacillus subtilis</i></li> <li>12. PPBB 72: <u>Tehreema Iftikhar</u>, Mubashir Niaz and Rabiya Ashraf and Maryam Yousaf - A comparative account of two ascomycetous fungi for the biosynthesis of Triacyl glycerol acyl hydrolases through solid substrate fermentation technique</li> </ol>	
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	<p>13. PPBB 23: Mubashir Niaz, <u>Tehreema Iftikhar</u> and Muhammad Hassan Raza - Eco-cultural optimization for glucoamylase production by <i>Penicillium chrysogenum</i> under solid substrate conditions.</p> <p>14. PPBB 24 Mubashir Niaz, Tehreema Iftikhar and Sidra - Comparative studies on the biosynthesis of triglycerol acyl hydrolases by wild &amp; mutant derivatives of <i>Fusarium</i> sp.</p> <p>15. PPBB 14 Jharna Rafaqat, Farooq Latif, Muhammad Hamid Rashid, <u>Tehreema Iftikhar</u> and Mubashir Niaz - Avicelase (exoglucanase) productivity of <i>Humicola insolens</i> FLN-1 grown under submerged conditions on various carbon sources</p> <p>16. PPBB 15 Jharna Rafaqat, Farooq Latif, Hamid Rashid, <u>Tehreema Iftikhar</u> and Mubashir Niaz - Production, partial purification and characterization of avicelase (exocellulase) from <i>Humicola insolens</i> FLN-1</p> <p>17. OPBG 14 Makhdoom Hussain, Mubashir niaz, Muhammad Iqbal, Javed Ahmad, Muhammad Asif, G.M. Subhani, Sajid ur-Rahman and <u>Tehreema Iftikhar</u> – Effect of pollen sources and ploidy levels on doubled haploid production in wheat</p> <p>18. PPBG 61 Saleem Akhtar, Mubashir Niaz, Muhammad Younas, Sajid ur Rehman, Muhammad Zaffar Iqbal and <u>Tehreema Iftikhar</u> - Comparison of wheat somaclones with their respective parents under salt stress conditions</p> <p>19. PPBB 42 Roheena Abdullah, Ikram-ul-Haq, Zahid Ali Butt, <u>Tehreema Iftikhar</u> and Mehwish Iqtedar - Strain improvement and optimization of media for the production of alpha amylase by <i>Aspergillus oryzae</i>.</p> <p>20. PPPE 38 Mubashir Niaz, <u>Tehreema Iftikhar</u>, Muhammad Kamran Bashir and Lal Khan Babar - Integrated fertilizer and pesticide management for Bt-and Non-Bt-cotton (<i>Gossypium hirsutum</i> L.)</p> <p>21. OPTE-28 Syed Qaiser Abbas, Mubashir Niaz, Iftikhar Ali, Nabila Iftikhar, Rubab Ayesha and <u>Tehreema Iftikhar</u> - Addition to fungi on <i>Azadirachta Indica</i> from Faisalabad and Gojra, Pakistan.</p>	
ORAL PARTICIPATION	AMB 25: <u>Tehreema Iftikhar</u> , E. Asghar and M. Niaz. Process optimization for lipase production by <i>Fusarium oxysporum</i> through solid state fermentation technique. 2 <sup>nd</sup> International Conference of Plant Scientists and 11 <sup>th</sup> meeting of Plant Scientists from 22 <sup>nd</sup> to 24 <sup>th</sup> of Feb. 2011.	Organized by Pakistan Botanical Society, held at GC University Lahore
ORAL PARTICIPATION	AMB-6: M. Niaz, S. Aziz and <u>Tehreema Iftikhar</u> . Process optimization for the biosynthesis of lipase by submerged culture of <i>A. niger</i> . Organized by Pakistan Botanical Society, 2 <sup>nd</sup> International Conference of Plant Scientists and 11 <sup>th</sup> meeting of Plant Scientists held at GC University Lahore from 22 <sup>nd</sup> to 24 <sup>th</sup> of Feb. 2011.	Organized by Pakistan Botanical Society, held at GC University Lahore
ORAL PARTICIPATION	MPP-4: S.Q. Abbas*, R. Ayesha, M. Niaz, I. Ali and <u>Tehreema Iftikhar</u> . Revision of and addition to the Fungi recorded on <i>Morus</i> sp. from Pakistan. Organized by Pakistan Botanical Society, 2 <sup>nd</sup> International Conference of Plant Scientists and 11 <sup>th</sup> meeting of Plant Scientists held at GC University Lahore from	Organized by Pakistan Botanical Society, held at GC University Lahore

	22 <sup>nd</sup> to 24 <sup>th</sup> of Feb. 2011.	
Certificate of participation	Certificate of Participation on “Building Effective coordination between R&D and industry for enhancing Innovations, Competitiveness and Productivity of Indigenous Technologies” on 12 <sup>th</sup> February, 2011. (Poster on TEXTILE ENZYMES)	Pakistan Scientific and technological Information Centre (PASTIC), Islamabad and Institute of research Promotion (IRP), Lahore
Certificate of participation	Two days intensive training course on “How to write a winning research paper” 27 <sup>th</sup> 2011 to 28 <sup>th</sup> March 2011	Institute of Business management, University of Engineering and technology, Lahore
Poster Participation	Participation in 2 <sup>nd</sup> International Conference of Plant Scientists” & 11 <sup>th</sup> National Meeting of Plant Scientists, from 22 <sup>st</sup> to 24 <sup>th</sup> February, 2011. (Posters) 12. [Represented Biotechnology Laboratory, Department of Botany, GC University, Faisalabad]	held at Department of Botany, GC University, Lahore
	<p>1. <b>P-41:</b> <u>T. IFTIKHAR</u>, T. Batool and M. Niaz Production of intra- and extracellular lipases by <i>Fusarium solanii</i> through optimization of environmental conditions using submerged fermentation technique.</p> <p>2. <b>P-42:</b> M. Niaz, M. Iftikhar and <u>TEHREEMA IFTIKHAR</u> Process optimization for lipase production from <i>Alternaria alternata</i> through solid state fermentation technique.</p> <p>3. <b>P-43:</b> <u>TEHREEMA IFTIKHAR</u>, Z. Nisa and M. Niaz Process optimization for lipase production from <i>Penicillium chrysogenum</i> through solid state fermentation technique.</p> <p>4. <b>P-44:</b> <u>TEHREEMA IFTIKHAR</u>, B. Tabassum and M. Niaz. Production of intra- and extracellular lipases by <i>Alternaria alternata</i> through optimization of environmental conditions using submerged fermentation technique.</p> <p>5. <b>P-45:</b> M. Niaz, S. Kanwal and <u>TEHREEMA IFTIKHAR</u>. Optimization of process conditions for lipase biosynthesis from <i>Trichophyton</i> sp. through submerged fermentation technique.</p> <p>6. <b>P-46:</b> M. Niaz, R. Khan and <u>TEHREEMA IFTIKHAR</u> Process optimization for the biosynthesis of lipase by solid state culture Of <i>Rhizopus oligosporous</i>.</p> <p>7. <b>P-47:</b> <u>T. IFTIKHAR</u>, A. Hanif and M. Niaz Biosynthesis Of Intra- And Extracellular Lipases By <i>Rhizopus oligosporous</i> through optimization of environmental conditions using submerged fermentation technique.</p> <p>8. <b>P-48:</b> <u>T. IFTIKHAR</u>, A. Tariq and M. Niaz. Enhanced biosynthesis of lipases through strain improvement of <i>Penicillium chrysogenum</i>.</p> <p>9. <b>P-49:</b> <u>T. IFTIKHAR</u>, H. Sarwat and M. Niaz. Strain improvement of <i>Aspergillus niger</i> for enhanced lipase production through chemical mutagenesis.</p> <p>10. <b>P50:</b> <u>T. IFTIKHAR</u>, H. Sarwat and M. Niaz. Strain improvement of <i>Trichophyton</i> sp. for enhanced lipase production through chemical mutagenesis.</p> <p>11. <b>P-67:</b> M. Niaz*, K. Bashir, L. K. Babar and <u>Tehreema Iftikhar</u>. Comparative field management trending from conventional to organic farming in cotton.</p> <p>12. <b>P-129:</b> <u>T. IFTIKHAR</u>. Mutation induced enhanced</p>	

	biosynthesis of lipases by <i>Rhizopus oligosporus</i> var. <i>microsporus</i> .	
Certificate of participation	Workshop attended on “DNA Fragmentation by Biomolecular techniques” organized by JOINT HIGHER EDUCATION LINK PROGRAMME b/w <u>HEC British Council</u> , GCU Fsd and New Castle Univ. England from 11 <sup>th</sup> Jan 2010 to 14 <sup>th</sup> Jan 2010.	GCU Faisalabad
ORAL PARTICIPATION	<b>Tehreema Iftikhar.</b> Physical and chemical mutagenic treatment for lipase. 5 <sup>th</sup> International Symposium on Biotechnology. 4 <sup>th</sup> to 7 <sup>th</sup> October, 2009. ORAL.	Organized by Institute of Biotechnology and Genetic Engineering, University of Sindh, Jamshoro.
Certificate of participation	Awarded certificate on successful completion of “36 <sup>th</sup> Postgraduate Training Course on Nuclear and other Advance techniques In Agriculture & Biological research (10-21 November, 2008)”	Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad
Certificate of participation	Awarded certificate on successful completion of workshop titled “Techniques for the estimation of quality of fish meat by Bio-Molecular methods” organized by the collaboration of Newcastle University, HEC, British Council and GC University Faisalabad (11-13 August 2008).	GC University Faisalabad
Oral Participation	<b>Tehreema Iftikhar</b> and Ikram-ul-Haq. 2008. Mutation induced enhanced biosynthesis of lipases by <i>Rhizopus oligosporus</i> var. <i>microsporus</i> . (ORAL) (HEC Travel grant awarded). <b>PROCEEDINGS. “International Life Sciences Students’ Conference Warsaw 2008” 10<sup>th</sup> to 14<sup>th</sup> September, 2008.</b>	held at University of Warsaw (UW) <b>POLAND</b> and Warsaw University of Life Sciences (SGGW).
Post Participant	Participation in 1 <sup>st</sup> International Conference of Plant Scientists” & 10 <sup>th</sup> National Meeting of Plant Scientists, held at from 21 <sup>st</sup> to 24 <sup>th</sup> April, 2008, UAF (Posters) 10	Department of Botany, University of Agriculture, Faisalabad
	<ol style="list-style-type: none"> <li>1. Some new fungal records on <i>Morus alba</i> from Faisalabad Pakistan-2007, Rubab Ayesha, Syed Qaiser Abass, Iftikhar Ali, Mubashir Niaz, Sana Riaz and <b>Tehreema Iftikhar. ICPS-430</b></li> <li>2. Some new fungal records on <i>Syzygium Cumini (Eugenia jambolana)</i> from Faisalabad Pakistan-2007, Sobia Mushtaq, Syed Qaiser Abbas, Mubashir Niaz, Sana Riaz and <b>Tehreema Iftikhar. ICPS 473</b></li> <li>3. <i>Some new fungal records on Bombax ceiba from Faisalabad Pakistan-2007</i>, Humaira Noreen, Rubab Ayesha, Syed Qaiser Abass, Iftikhar Ali, Mubashir Niaz, Sana Riaz and <b>Tehreema Iftikhar. ICPS 474</b></li> <li>4. <i>Some new fungal records on Psidium guajava L from Faisalabad Pakistan-2007</i>, Abida Parven, Rubab Ayesha, Syed Qaiser Abass, Iftikhar Ali, Mubashir Niaz, Sana Riaz and <b>Tehreema Iftikhar. ICPS 475</b></li> <li>5. Optimization of Cultural conditions for different <i>Aspergillus Spp.</i> For enhanced biosynthesis of Glucoamylases under submerged fermentation conditions by using vegetable/fruit peel as substrate, Mohsin Riasat, Mubashir Niaz, Syed Qaiser Abbas, <b>Tehreema Iftikhar, Sana Riaz. ICPS 476</b></li> <li>6. Some new fungal records on <i>Azadirachta indica</i> from Faisalabad Pakistan-2007, Nabila Iftikhar, Syed Qaiser Abbas, Mubashir Niaz, Sana Riaz and <b>Tehreema Iftikhar. ICPS 477.</b></li> </ol>	

	<p>7. Fungi on <i>Eucalyptus</i> sp. From Faisalabad-2007. Naila Sadaf, S.Q.Abbas, M. Niaz, <b><u>Tehreema Iftikhar</u></b> and Sana Riaz. <b>ICPS 505</b></p> <p>8. Optimization of cultural conditions for Enhanced Glucoamylase Production in Submerged Fermentation by <i>Gymnoascus citrine</i>, Mohsin Riasat, Syed Qaiser Abbass, Sana Riaz, <b><u>Tehreema Iftikhar</u></b>, Mubashir Niaz, Biotechnology Laboratory, Department of Botany, GC University, Faisalabad. <b>ICPS-431</b></p> <p>9. Optimization of cultural conditions for Enhanced Glucoamylase Production in Submerged Fermentation by <i>Trichoderma viride</i>. Mohsin Riasat, Syed Qaiser Abbass, Sana Riaz, <b><u>Tehreema Iftikhar</u></b>, Mubashir Niaz, Biotechnology Laboratory, Department of Botany, GC University, Faisalabad. <b>ICPS 478</b></p> <p>10. Optimization of cultural conditions for Enhanced Glucoamylase Production in Submerged Fermentation by <i>Mucor mucedo</i> by using vegetable/fruit peel as substrate Mohsin Riasat, Syed Qaiser Abbass, Sana Riaz, <b><u>Tehreema Iftikhar</u></b>, Mubashir Niaz, Biotechnology Laboratory, Department of Botany, GC University, Faisalabad. <b>ICPS 479</b>.</p>	
Oral participation with proceedings published	Mubashir Niaz, Athar mehmood, Makhdoom Hussain, <b><u>Tehreema Iftikhar</u></b> and Syed Qaiser Abbas. Production of wheat haploids by using wheat x maize crossing I. Optimization of 2,4-d and cultural conditions for the generation of homozygosity. Biotechnologies International Symposium “Which biotechnologies for south countries” Held at 24-25 November 2007, Pp. 362-369 ( <b>ORAL &amp; PROCEEDINGS</b> ) (HEC travel Grant Awarded). FOR Algeria Oran	<b><i>Oran, Algerie, Africa Proceedings of Biotech World 2007</i></b>
Oral participation with proceedings published	<b><u>Tehreema Iftikhar</u></b> , M.Niaz, M.A.Zia, M.A.Qadeer, S.Q.Abbas, M.I.Rajoka and I.U.Haq “Screening of media and Kinetic studies for the production of lipase from a mutant strain of <i>Rhizopus oligosporus</i> ”, Biotechnologies International Symposium “Which biotechnologies for south countries” Held at 24-25 November 2007, Pp. 362-369 ( <b>ORAL &amp; PROCEEDINGS</b> ) (HEC travel Grant Awarded). FOR Algeria	<b><i>Oran Algerie, Africa Proceedings of Biotech World 2007,</i></b>
Certificate of participation	Workshop/meeting attended, on “ <i>Business Opportunities In Industrial Biotechnology</i> ” from 17 to 19 January, 2006 in collaboration with Federation of Asian Biotechnology Associations (FABA) Pakistan Chapter, Pakistan.	Institute of Industrial Biotechnology, GC University, Lahore
Certificate of participation	Nominated & Selected for attending 1 <sup>st</sup> meeting of Nobel Laureates from 27 <sup>th</sup> to 31 <sup>st</sup> March 2006.	HEC, PSF, PAEC” held at Islamabad & Lahore
Poster Presentation	M. Anjum Zia, <b><u>Tehreema Iftikhar</u></b> , Fozia Anjum and Munir.A.Sheikh. UV rays mutagenesis of <i>Rhizopus</i> sp. For enhanced production of lipase. 3 <sup>rd</sup> National Conference on Agriculture and Animal Sciences, 21-23 November, 2006	Sindh Agriculture University, Tandojam.
Poster Presentation	S. Riaz, <b><u>Tehreema Iftikhar</u></b> , S. Maqsood, M.Niaz & M. Hanif. Effect of different carbon sources on the production of ethanol by <i>Kluveromyces marxianus</i> . <b>1<sup>st</sup> International Conference on Biotechnology &amp; Informatics 10<sup>th</sup> to 12<sup>th</sup> April 2006.</b>	GCU Faisalabad

Poster Presentation	S. Maqsood, <b>Tehreema Iftikhar</b> , S.Riaz, M.Niaz & M. Hanif. Effect of carbon sources on the production of beta-glucosidase by <i>Kluveromyces marxianus</i> . <b>1<sup>st</sup> International Conference on Biotechnology &amp; Informatics 10<sup>th</sup> to 12<sup>th</sup> April 2006</b> .	GCU Faisalabad
Poster Presentation	S. Riaz, <b>Tehreema Iftikhar</b> , S. Maqsood, M.Niaz & M. Hanif. Effect of different nutrients on the production of ethanol by <i>Kluveromyces marxianus</i> at <b>International symposium</b> entitled “Applications of plant sciences in emerging scenario” from <b>20<sup>th</sup> to 22<sup>nd</sup> of March 2006</b> at GCU Faisalabad.	GCU Faisalabad
Poster Presentation	S. Maqsood, <b>Tehreema Iftikhar</b> , S.Riaz, M.Niaz & M. Hanif. Effect of nutrients on the production of beta-glucosidase by <i>Kluveromyces marxianus</i> . At <b>International symposium</b> entitled “Applications of plant sciences in emerging scenario” from <b>20<sup>th</sup> to 22<sup>nd</sup> of March 2006</b> .	GCU Faisalabad
Organized	<i>International symposium</i> entitled “Applications of plant sciences in emerging scenario” from 20 <sup>th</sup> to 22 <sup>nd</sup> of March 2006.	GCU Faisalabad
Poster Presentation	Attended Staff Development Course from 11 July to 6 Aug, 2005 under scheme “National Academy of Higher Education” certificate awarded by the Department of learning Innovation Higher Education Commission.	University of Agriculture, Faisalabad
Certificate of participation	Workshop attended on ‘Impact of Earth Quake on Climate/Weather” from 17-19 Nov 2005.	organized by COMSATS, Islamabad
Certificate of participation	Workshop Attended on “Advances in Plant Physiology” from 14 <sup>th</sup> to 16 <sup>th</sup> of November 2005.	University of Agriculture, Faisalabad & Higher Education Commission
Certificate of participation	International Workshop attended on “Impact of Weather & Climate on Society Affairs” from Nov. 24 <sup>th</sup> to 26 <sup>th</sup> 2005,	COMSATS, Islamabad/National Center for Atmospheric Research, USA & Pakistan Meteorological department
Certificate of participation	Workshop attended on “Bacteriocins” as Participant from 6-10 <sup>th</sup> of Dec 2005.	University of Karachi, Karachi, PARC (ALP) & Higher Education Commission
Certificate of participation	Short course attended on “Reuse of Waste Materials in the construction Industry” on 11-12 Jan 2005,	Institute of Environmental Science and Engineering & NUST, Rawalpindi.
LIAISON OFFICER	MoU between GCUF and WWFP. <b>2005 to 2015</b> .	GCU, Faisalabad
Organizer	Organizer of a City level Walk “Clean up- the Faisalabad” as a part of the International Clean up the World (14-16 Sept 2005) UNEP AUSTRALIA Under the Umbrella of Environment Protection Society, for the Awareness of the public. <b>16-09-2005</b> .	GCU, Faisalabad
Organizer	Organizer of a seminar on “International Ozone Day, 16th Sept 2005”“React Good to Ozone - Let sun be good to you.16-09-2005. IN collaboration with WWF-P	GCU Faisalabad
Active Participant	Participating in the practical activities organized by WWF in connection with environment & Conservation of Nature. 2004	WWF-P
Certificate of	MASTER TRAINER Workshop Attended on 8 <sup>th</sup> of September	“Intel” with the collaboration

participation	2004, having theme “ <i>Teaching to the future</i> ” in connection with the practical project for students and Intel.	of Higher Education Commission
Certificate of participation	Seminar attended on <i>Save Our Sky: Ozone friendly planet our target</i> (on 16 <sup>th</sup> Sept. 2004, International Ozone Day).	Environmental Protection Department, Punjab.
Poster Presentation	<u>Tehreema Iftikhar</u> and Ikram-ul-Haq. Effect of Additional Carbon Sources on the Production of Lipase by <i>Rhizopus oligosporous</i> ” at the conference “ <i>Fourth National Conference of Plant Pathology</i> ” held on 14 – 16 Oct 2003.	At University of Arid Agriculture, Rawalpindi organized By Pakistan PhytoPathological Society.
Oral participation and proceedings	<u>Tehreema Iftikhar</u> , Ikram-Ul-Haq and Hamid Mukhtar, “Effect of additional nitrogen sources on the production of lipase by mutant strain of <i>Rhizopus</i> spp. T <sup>uv</sup> -31”, Proceedings of <b><i>International Conference On Chemical and Bioprocess Engineering 27<sup>th</sup> – 29<sup>th</sup> August 2003, Vol (1): 217-221. (ORAL &amp; PROCEEDINGS).</i></b>	Universiti Malaysia Sabah, Kota Kinabalu.
Poster Presentation	<u>Tehreema Iftikhar</u> & Ikram-ul-Haq. Poster presentation in 7 <sup>th</sup> <b><i>International Conference (April 2 – 5, 2003)</i></b> organized by “PAKISTAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY”.	Department of Biochemistry & Biotechnology, Qaid-e-Azam Campus, University of Punjab, Lahore.
Poster Presentation	<u>Tehreema Iftikhar</u> & Ikram-ul-Haq. “ <b><i>International Animal Nutrition Conference</i></b> ” (19-20 Mar.-2003) (POSTER)	organized by NUTRITIONISTS ASSOCIATION OF PAKISTAN.
Certificate of participation	Teaching workshop attended from 13 <sup>th</sup> of July to 9 <sup>th</sup> of Aug 2003	Organized by “SCIENCE EDUCATION PROJECT PHASE II”
Organizer	Workshop organized on IDD (Iodine Deficiency Disorders) programme held by Dept. of Health Punjab with the collaboration of UNICEF and organized a survey cum programme at Lady MacLagan Govt. Girls High School, Lahore.	2002



RESEARCH SUPERVISION INTERNATIONAL/NATIONAL [143]						
Sr#	Name	Class	Roll #/Registration #	Title	Co-supervisor/Supervisor (if any)	University/Institute

#### International Mentorship

1	Ms. Aydan Zeynalova [45-A/Dir APEL/21 dated: 6-8-2021] Duration of stay: 8-12-2021- 15-1-2022 (6 weeks training)	Research Trainship through Comstech Consortium of Excellence [CCoE]	<b>PhD Scholar at Azerbaijan Institute of Botany Azerbaijan National Academy of Sciences. 128/PS-VC/21 dated: 14-6-2021</b>	Starch extraction from plant materials and Microbial lipases production using thermophilic bacteria	<b>Dr. Hammad Majeed, UMT Sialkot</b>	Azerbaijan Academy of Science
2	Ms. Aygun Baghirova [45-A/Dir APEL/21 dated: 6-8-2021] Duration of stay: 8-12-2021- 15-1-2022 (6 weeks training)	Research Trainship through Comstech Consortium of Excellence [CCoE]	<b>Azerbaijan Institute of Botany Azerbaijan National Academy of Sciences. 129/PS-VC/21 dated: 14-6-2021</b>	Starch extraction from plant materials and Microbial lipases production using thermophilic bacteria	<b>Dr. Hammad Majeed, UMT Sialkot</b>	Azerbaijan Academy of Science

#### (GOVT. COLLEGE UNIVERSITY LAHORE)

3	Suhnoon Hassan	121-PHD-2025	Course Work	NA		
4	Bilal Ahmed	122-PHD-2025	Course Work	NA		
5	Muhammad Bin Ali	0002-PhD-2019	<b>PhD Thesis Submitted . Sept 2025</b>  Synopsis Approved by BOS 23-11-2021	Zinc fortification of oyster mushroom ( <i>Pleurotus</i> sp.) and its nutritional evaluation	Co-Supervisor: Dr. Hammad Majeed, UMT, Sialkot	Govt. College University Lahore
6	Bushra Bilal	82-PHD-2021	<b>Completed as Cosupervisor 28-2-2025</b>	Impact of Salinity Stress on growth, Biomass and Nutritional Values of five Varieties of <i>Vigna radiata</i> L. and its Alleviation by using Locally Isolated Bacteria	Supervisor: Dr. Zafar Sadiq	Govt. College University Lahore
7	Tehmina Bashir	2017-GCUL-	<b>PhD completed</b>	Production, Purification and characterization of Thermostable lipases	Co-Supervisor:	Govt. College

		BOT-388	<b>-March 2024</b> Synopsis approved by ASRB dated: 2021	and their textile facet [Thesis Submitted]	Dr. Hammad Majeed, UMT, Sialkot	University Lahore
8	Sidra- Indigenous PhD Scholar	PhD- GCUF	<b>Complete d</b> 2006-GCU F-1661- 319	Laboratory scaling up for substrate fermenting potential of lipases production by a newly isolated fungal hyper producer ( <i>Aspergillus niger</i> ) and its mutant derivative	<b>Notification:</b> GCUF/7398/1 7/DCE dated: 9-12-2017 Supervisor II: Prof. Dr. M. Ali Vice Chancellor, GCUF	Govt. College University Faisalabad
9	Muhammad Kamran Bashir	PhD- GCUF	Thesis Submitted 2004- GCUF- 1060-319	Production and characterization of triacylglycerol acyl hydrolase (TAGA) from an indigenous hyper producer <i>Aspergillus</i> sp. and its best derived mutant	Supervisor I: Prof. Dr. M. Ali Vice Chancellor, GCUF	Govt. College University Faisalabad
10	Syeda Shahwar Zahra	Left for Australia				
11	Muhammad Shariq Khawaja	PhD	Synopsis Approved 2023	Impact of varying temperature on growth, biomass, anatomical traits and active ingredients of <i>Viola odorata</i> L.	Supervisor: Dr. Zafar Sadiq	Govt. College University Lahore
12	Rubab Zahra	2024- GCUL- MPHIL- BOT-132	0132- MPHIL- BOT-2024	Linear Programming-Optimized Fortified Corn Based Extruded Snack Incorporating Functional Flavoured Seasonings	Co- Supervisor: Dr. Hammad Majeed, UMT, Sialkot	Govt. College University Lahore
13	Zoraiz Imtisal	2024- GCUL- MPHIL- BOT-124	0124- MPHIL- BOT-2024	Functional Biopolymer Spheres as Carriers for Sugarcane by Physicochemical Evaluation for Quality and Shelf Life Improvement	-do-	-do-
14	Maryam Akram	2024- GCUL- MPHIL- BOT-126	0126- MPHIL- BOT-2024	Formulation of Low-Glycemic Baked Snacks Using Natural Ingredients	-do-	-do-
15	Hamsa Shafique	2024- GCUL- MPHIL- BOT-355	0355- MPHIL- BOT-2024	Development of <i>Aloe</i> sp. Fiber-Blended Woven Fabric for Technical Textile Applications	-do-	-do-
16	Sidra	2024- GCUL- MPHIL- BOT-357	0357- MPHIL- BOT-2024	Linear Programming-Based Formulation and Physicochemical Evaluation of Lemon Detox Functional Beverages Incorporating Biopolymer Spheres	-do-	-do-
17	Zunaira Shabbir	0212-BS- BOT- 2022		Fiber Extraction from <i>Sansevieria</i> sp. for Textile Applications	-do-	-do-
18	Iqra Aslam	0227-BS- BOT- 2022		Development of a Smart pH- Responsive Color-Changing Biocomposite for Food Safety Applications	-do-	-do-

19	Hira Aslam	0229-BS-BOT-2022		Biocomposite snack from <i>Momordica charantia</i> L. Seeds using Controlled Thermal Biochemical Processing for Glycemic Health	-do-	-do-
20	Sehar Fatima	MS	0370-MPHIL-BOT-23	Formulation and Development of Plant-based chews for Hemorrhoid Management using Linear programming	-do-	-do-
21	Arslan Ahmad	MS	0369-MPHIL-BOT-23	Nutritional and sensory analysis of fruit leather prepared from strawberry, banana and date blends using Linear programming	-do-	-do-
22	Laiba Liaqat	MS	0368-MPHIL-BOT-23	Development of Quercetin-Enriched Nutraceutical Chews Using Natural Ingredients for Allergy Relief via Linear Programming	-do-	-do-
23	Faiza Batool	BS 2021-2025	0251-BS-BOT-21	Developing healthy snack bars from underutilized barley grains	-do-	-do-
24	Yashfa Nawaz	BS 2021-2025	0231-BS-BOT-21	Development and analysis of bioactive functional crackers using moth bean flour, buckwheat flour and chickpea flour	-do-	-do-
25	Saher Shareef	BS 2021-2025	227-BS-BOT-21	Development and Analysis of a Functional Beverage Using Beetroot, Moringa, Apple, and Lemon	-do-	-do-
26	Dur-e-Sameen	MS Morning (2022-2024)	356-MPH-GCU-BOT-22	Biochemical Optimization and Nutritional Assessment of Corn Silage ( <i>Zea mays</i> L.) for Improved Livestock Feed	-do-	-do-
27	Nawera Aziz Butt	MS (2022-2024)	108-MPH-GCU-BOT-GCU	Biochemical Optimization and Nutritional Assessment of Wheat ( <i>Triticum aestivum</i> L.) for Improved Livestock Feed	-do-	-do-
28	Qamar Abbas	MS Mor (2022-2024)	364-MPH-GCU-BOT-22	Extraction of <i>Sesbania bispinosa</i> (L.) Poir, <i>Leptadenia pyrotechnica</i> (Forssk.) Decne and <i>Aloe vera</i> L. fiber and its textile application	-do-	-do-
29	Shamshad Fatima	BS Mor (2020-2024)	108-BS-BOT-20	Exploring The Leaf Fiber Potential of <i>Sansevieria Trifasciata</i> Prain		-do-
30	Maryam Batool	BS Mor (2020-2024)	116-BS-BOT-20	Exploring the leaf fiber potential of <i>Typha angustifolia</i> L.	-do-	-do-
31	Motiba Arshad	BS Mor (2020-2024)	117--BS-BOT-20	Extraction and characterization of textile fibres from <i>Ananas comosus</i> (L.) Merr. Leaf	-do-	-do-
32	Ambreen Hanif	BS Mor (2020-2024)	144-BS-BOT-20	Extraction of textile fibers from pseudo-stem of Banana ( <i>Musa accuminata</i> Colla)	-do-	-do-
33	Asma	BS Eve (2020-2024)	137-BS-E-BOT-20	Extraction and characterization of textile fibers from <i>Zingiber officinale</i> Roscoe. rhizome peel	-do-	-do-
34	Zamzama Noor	BS Eve (2020-2024)	132-BS-E-BOT-20	Extraction and characterization of textile fiber from <i>Morus alba</i> L.	-do-	-do-
35	Rimsha Sarwar	MS Morning	0130-MPhil-M-	Variation of quality characteristic among different varieties of raw and refined	Co-Supervisor:	-do-

			Bot-21	sunflower oil available in local market of Pakistan.	Dr. Hammad Majeed, UMT, Sialkot	
36	Ayesha Bano	MS Morning	0102-MPhil-M-Bot-21	Variation of quality characteristic among different varieties of raw and refined canola oil available in local market of Lahore.	-do-	-do-
37	Suhnoon Hassan	MS Morning	0132-MPhil-M-Bot-21	Impact of potato peel starch on postharvest guava ( <i>Psidium guajava</i> L.) quality: A response surface methodology study	-do-	-do-
38	Rehman Manzoor	MS Evening	360-MPhil-E-Bot-21	Extraction of <i>Aloe vera</i> L. fiber and its biomedical application	-do-	-do-
39	Anzala Azhar	MS Evening	362-MPhil-E-Bot-21	Development of prebiotic nutribar formulation by incorporating <i>Moringa oleifera</i> L. leaf extract for enhanced nutritional and functional properties	Co-Supervisor: Dr. Muhamamd Khalid, PCSIR, Lahore	In process
40	Aneela Afzal	MS Evening	351-MPhil-E-Bot-21	To evaluate the synergized potential of <i>Nigella sativa</i> L. and <i>Zingiber officinale</i> L. for shelf-life extension of green chilli ( <i>Capsicum frutscence</i> L.) paste.	Co-Supervisor: Dr. Hammad Majeed, UMT, Sialkot	-do-
41	Umer Farooq	BS Morning	0136-BH-M-Bot-19	Development and evaluation of prebiotic peanut rich nutribars.	-do-	-do-
42	Muhammad Haseeb Sajjad	BS Morning	0115-BH-M-Bot-19	Production of functional snack bar in rich brown rice, oat and jaggery and its nutritional and sensory evaluation.	-do-	-do-
43	Sidra	BS Morning	0130-BH-M-Bot-19	Utilization of jaggery and chickpeas for the production of nutria-rich protein energy bars.	-do-	-do-
44	Muhammad Afzal Riaz	BS Evening	0109-BH-E-Bot-19	Study on nutritional and sensory attributes of the biscuits produced from the composite flour of wheat and buck wheat.	-do-	-do-
45	Muhammad Zohaiib	BS Evening	0144-BH-E-Bot-19	Effect of leaf extracts of <i>Mangifera indica</i> L. and <i>Citrus limon</i> L. as edible coating for improving the postharvest quality of Guava ( <i>Psidium guajava</i> . L) fruit	-do-	-do-
46	Khadija Sahfique	BS Evening	0475-BH-E-Bot-19	Treatment of Potable Water using <i>Moringa oleifera</i> L. and <i>Eichhornia crassipes</i> Mart. extracts with response surface methodology	-do-	-do-
47	Azka Kashif	MSc	1923-MSc-Bot-20	Characteristics and sensory properties of herbal tea formulation using <i>Mentha avensis</i> L., <i>Mentha Sylvestris</i> L., <i>Foeniculum vulgare</i> Mill. and <i>Elettaria cardamomum</i> L.	-do-	-do-
48	Aftab Rasool	MSc	1903-Msc-Bot-20	Study of rheological, phytochemical, sensory and antibacterial characteristics of yogurt fortified with <i>Cinnamomum verum</i> J. persl. and <i>Nigella sativa</i> L. extract.	-do-	-do-
49	Zoha Altaf	MPhil Session 2020-2022	0110-MPHIL(M)-BOT-20	Characterization and soil applications of bone char derived under different pyrolysis temperature	Co-Supervisor: Dr. Aisha Nazir, Institute of Botany, University of Punjab,	-do-

						Lahore	
50	Tania Rani	MPhil	0110-MPHIL(M)-BOT-20	Partitioning of heavy metals in ornamental plants during photoextraction of heavy metals from tannery solid wastes	Co-Supervisor: Dr. Aisha Nazir, Institute of Botany, University of Punjab, Lahore	-do-	
51	Mariam Jabeen	MPhil	125-MPHIL(M)-BOT-20	Sustainable utilization of Bio-based feedstock for bio-char formation and its application in soil	Co-Supervisor: Dr. Aisha Nazir, Institute of Botany, University of Punjab, Lahore	-do-	
52	Aiman Amjad	MPhil	0107-MPhil-BOT-20	Nutritional facts and antioxidant potential of various varieties of buck wheat	Co-Supervisor: Dr. Saeed, PCSIR	-do-	
53	Rida Abid	MPhil	354-MPHIL-BOT-20	Application of plant based material for the manufacturing of mosquito repellent surface coating	Co-Supervisor: Dr. Hammad Majeed, UMT, Sialkot		
54	Muhammad Ashir Nadeem	MPhil	371-MPHIL-BOT-20	Formulation of insect repellent surface coating using plant based materials	Co-Supervisor: Dr. Hammad Majeed, UMT, Sialkot		
55	Amina Ilyas	MPhil	371-MPHIL-BOT-20	Evaluation of the <i>Enterobacter</i> sp. SA187 on the development of <i>Arabidopsis thaliana</i> L. heynh placed under elevated atmospheric CO <sub>2</sub> (e[CO <sub>2</sub> ]) and limiting nitrogen conditions	Co supervisor: <b>Dr. Alex de Julien de Zelicourt</b> Assistant Professor Department of Physiology and Signaling Institute of Plant Science Paris-Salary (IPS2) University of Paris-Saclay, Paris, France		
56	Aqsa Javaid	Bsc(Hons) Session 2018-2022	0127-BH-BOT-18	Effect of zinc fortification on sensory, physical and rheological characteristics of yogurt	Co-Supervisor: Dr. Umer Shafiq, Dept. of Chem, GCUL		
57	Qamar Abbas	-do-	2018 (E)-BH-BOT-13	Screening of bacterial consortia for effluent and ecofriendly degradation of plastic garbage collected from different zones of Lahore	Co-Supervisor: Dr. Hammad Majeed, UMT, Sialkot		
58	Dur E Sameen	-do-	2018 (E)-BH-BOT-	Screening of fungal consortia for effluent and ecofriendly degradation of plastic	Co-Supervisor:		

			34	garbage collected from different zones of Lahore	Dr. Hammad Majeed, UMT, Sialkot	
59	Nuzhat Jabbar	-do-	BS	Quality characteristics of cookies produced from composite flours of wheat and mushroom	Co-Supervisor: Ms. Sara Atta, Dept of Botany, GCUL	
60	Maria Mubarak	-DO-	0104-BH-BOT-18	Production of Single Cell Protein from <i>Rhizopus oligosporus</i> using agricultural waste product (barley husk) as substrate	Co-Supervisors: 1. Dr. Rubina Nilofer, PSO, PCSIR 2. Dr. Farzana Bashir, PSO, PCSIR 3. Dr. Nadeem, PSO, PCSIR	
61	Fatima Saleem	-DO-	0110-BH-BOT-18	Biotechnological production, purification and application of glucoamylase from <i>Rhizopus oligosporus</i> using barley husk for hydrolysis of starch	Co-Supervisor: 1. Dr. Rubina Nilofer, PSO, PCSIR	
62	Maryam Tayyab	MPhil (2019-2021)	0370-7-19	Application of Rice starch in eco-friendly textile finishing	Co-Supervisor: Dr. Hammad Majeed, UMT, Sialkot	
63	Eeman Fatima	MPhil	0356-MPhil-BOT-19	Application of Modified Potato Starch Nanoparticles on Cellulosic Fabric	Co-Supervisor: Dr. Hammad Majeed, UMT, Sialkot	
64	Iram Shahzadi	MSc 2019-2021	1946-MSc-BOT-19	Evaluation of zinc nanofertilizer spray (NFS) and its effect on growth of pea plant ( <i>Pisum sativum</i> L.).	Co-supervisor: Dr. Sumera Javad Department of Botany, LCWU, Lahore	
65	Sana Rai	MSc	1906-MSc-BOT-19	Formulation of nanoconjugates from antibiotics and green synthesized nanoparticles	-do-	
66	Bushra Mushtaq	MSc	1919-MSc-BOT-19	To optimize solvent free Microwave Assisted Extraction (MAE) of pectin from Lemon peel	-do-	
67	Ushna Munir	BSc (Hons) 2017-2021	2017-BS-BOT-87	Optimization of triacylglycerol acyl hydrolases production by thermophilic bacterial isolate (Lmf) using submerged	- Dr. Umer Farooq Awan Assistant	

				fermentation technique through one factor at a time approach (OFAT)	Professor Department of Botany, GCU Lahore	
68	Shehar Bano	-	2017-BH-BOT-101	Optimization of physical and chemical factors for production of extracellular lipases by thermophilic bacteria (L2e) isolated from hot springs of Mango Pir Karachi	-do-	
69	Alina Shahzadi	-	2017-BH-BOT-111	Production of extracellular lipases by thermophilic bacterial strain (Lmb) isolated from hot springs of Tatta Pani Azad Jammu Kashmir through solid state fermentation (SSF)	-do-	
70	Kanwal Shahzad	-	2017-BH-BOT-96	To study the production of triacylglycerol acyl hydrolases from thermophilic bacterial isolate of L2b using response surface methodology (RSM)	-do-	
<b>MPhil (Lahore College for Women University, Lahore)</b> <b>2016-2018</b>						
71	Sidra Arooj	MS	-	Biosynthesis of lipases from <i>Neurospora crassa</i> (Shear & dodge) and its potential application in detergent formulation		
72	Kiran Maqsood	MS	-	Biosynthesis of lipases from <i>Aspergillus</i> sp. and its potential application in detergent formulation		
<b>MPhil (Lahore College for Women University, Lahore)</b> <b>2016-2018</b>						
73	Anum Saleem	MS	51652002/16M/LCW U-178	Biosynthesis of triacyl glycerol acyl hydrolases using bacterial co-cultures through submerged culture fermentation technique (Thermophilic bacterial work)		
74	Syeda Shehwar Zahra	MS	51652019/16M/LCW U-195	Biosynthesis of triacyl glycerol acyl hydrolases using bacterial co-cultures through solid substrate fermentation technique (Thermophilic bacterial work)		
75	Iqra Javaid Ch.	MS	51652012/16-M/LCWU-188	Biosynthesis of triacyl glycerol acyl hydrolases using bacterial co-cultures through surface culture fermentation technique (Thermophilic bacterial work)		
<b>MPhil (Lahore College for Women University, Lahore)</b> <b>2015-2017</b>						
76	Ayesha Khalid	MS	5155220/1 5-M/LCWU-2334	Biosynthesis of triacyl glycerol acyl hydrolases using an axenic fungal culture through submerged fermentation technique		
77	Tehmina Bashir	MS	515526/15-M/LCWU-2006	Production potential of an axenic fungal isolate for enhanced triacyl glycerol acyl hydrolases using Response surface methodology (RSM)		
<b>2014-2016</b>						
78	Alia Siddique	MS	02/14-M/LCWU-121	A study on the biosynthesis of triacyl glycerol acyl hydrolases using wild and mutant isolates of <i>Aspergillus niger</i> (Sensu auct.). Mixed culture fermentation for improved production		
79	Hina Chaudhary	MS	09/14-M/LCWU-128	Enhancement of triacyl glycerol acyl hydrolases potential of <i>Aspergillus nidulans</i> (Eidam) and <i>Aspergillus terreus</i> (Thom) through mixed culture fermentation technique.		
80	Anum Saleem	MS	12/14-M/LCWU-131	Enhancement of triacyl glycerol acyl hydrolases biosynthesis of axenic bacterial isolate using monoculture through solid substrate fermentation.		

81	Ambreen Pervez	MS	20/14-M/LCWU-139	Optimization of cultural conditions for enhancement of triacyl glycerol acyl hydrolases biosynthesis using bacterial co-cultures through solid substrate fermentation.	
<b><u>MPhil (Govt. College University Faisalabad)</u></b> <b><u>2010-2012</u></b>					
82	Fareeha Fatima	MS		Isolation, Production & Characterization of Extra & Intra-cellular lipases from Oily food borne fungi.	
83	Zaib un Nisa	MS	4/(2007GC UF261831 9)	Isolation, Production & Characterization of Extra & Intra-cellular lipases from Oil contaminated soil borne	
<b><u>2009-2011</u></b>					
84	Yasir Hussain	MS	55	Eco cultural optimization of chemically induced mutagenic strain of <i>Aspergillus niger</i> for enhanced lipases biosynthesis.	
85	Hina Sarwat	MS	49	Comparative studies on the lipase activity of wild and mutant strains of <i>Trichophyton</i> sp. (MBL 23) through submerged fermentation technique.	
86	Asma Tariq	MS	54	Eco cultural optimization of chemically induced mutagenic strain of <i>Penicillium chrysogenum</i> for enhanced lipases biosynthesis	
87	Anila Noreen	MS	1304	Production, partial purification and characterization of lipases by <i>Alternaria citrii</i> using submerged fermentation technique.	
<b><u>2012-2014 (GCUF)</u></b>					
88	Maleeha Razzaq-	MSc	7771/ 2012-GCUF- 06723.	Use of response surface methodology to optimize culture medium for production of extracellular lipases with <i>Aspergillus</i> sp. through solid state fermentation	
89	Fara Asghar.	MSc	77739/201 2-GCUF- 06779	Optimization of critical medium components using response surface methodology for extra cellular lipases production by <i>Penicillium</i> sp. through solid state fermentation	
90	Ramshah Riaz	MSc	7718 / 2012- GCUF- 06788.	Optimization of extracellular & intracellular lipases production from <i>Aspergillus nidulans</i> isolate by submerged fermentation technique using response surface methodology	
<b><u>2009-2011 (GCUF)</u></b>					
91	Qamar Batool	MSc	1352	Studies on the biosynthesis of lipases by <i>Penicillium citrinum</i> through submerged fermentation technique	
92	Qurat ul Ain Rahat	MSc	1262	Studies on the biosynthesis of invertase by <i>Alternaria alternata</i> through solid substrate fermentation technique	
93	Muhammad Rafiq Khan 1340	MSc	1340	Studies on the biosynthesis of lipases by <i>Penicillium</i> sp. (Isolated from Pickle) through solid substrate fermentation technique	
94	Maria Naqvi	MSc	1331	Studies on the biosynthesis of amyloglucosidase by <i>Penicillium citrinum</i> through solid substrate fermentation technique	
<b><u>2008-2010 (GCUF)</u></b>					
95	Maneela Sadaf	MSc	13	Process optimization for lipase production from <i>Fusarium solani</i> (MBL 21) through solid state fermentation technique	
96	Bushra Tabassum	M S c	28	Biosynthesis & comparative studies on exo and endo-lipases of <i>Penicillium chrysogenum</i> through submerged fermentation	
97	Tahira Batool	MSc	22	Biosynthesis & comparative studies on exo and endo-lipases of <i>Rhizopus microsporous</i> through submerged fermentation	
<b><u>2007-2009 (GCUF)</u></b>					

98	Mamona Anwar	MSc	23	Optimization of cultural conditions for the production of lipases through solid state fermentation by some locally isolated fungal flora of Faisalabad	
<b>2005- 2007 (GCUF)</b>					
99	Sadaf Naseem	MSc	367	Biosynthesis of extracellular lipases through UV Mutagenesis	
100	Riaz Ahmed	MSc	368	Screening of lipase producers through solid state fermentation	
<b>2003-2005 (GCUF)</b>					
101	Sobia Maqsood	MSc	811	Production of Beta-Glucosidase by <i>Kluveromyces marxianus</i> .	
102	Sana Riaz	MSc	802	Production of Alcohol by <i>Kluveromyces marxianus</i>	
103	Humaira Saleem	MSc	810	Alpha-Amylase Synthesis by solid State fermentation from <i>Bacillus licheniformis</i> RT <sub>7</sub> V <sub>c</sub> strain	
<b>BS (4 year)- LCWUL 2015-2019</b>					
104	Ansa Rasheed	BS	BS-BOT-5155137	Process optimization for improved lipases production using <i>Mucor</i> sp. isolated from bread roasted in oil	
105	Wajiha Ijaz	BS		Process Optimization For Improved Lipases Production Using <i>Candida Albicans</i> Isolated From Oily Curry Of <i>Solanum Tuberosum</i> (L)	
<b>BS (4 year)- LCWUL 2014-2018</b>					
106	Esha Aziz	BS	201434	Exploitation of thermophilic bacterial isolate for biosynthesis of lipases	
107	Noreen Manzoor	BS	201433	Exploitation of thermophilic bacterial culture for lipases production	
108	Zaira Iqbal	BS	201406	A study on the biosynthesis of lipases from a thermophilic bacterial strain	
109	Aqsa Babar	BS	201430	A study to check the production potential of lipases from thermophilic bacterial strain	
<b>BS (4 year)- LCWUL 2013-2017</b>					
110	Ammara Khalid	BS	130006-6-	Statistical optimization of critical medium components by a newly isolated culture from bread roasted in oil	
111	Sumaira Mustafa	BS	130010 9/13- B/LCW U- 23019	Statistical optimization of critical medium components by a culture isolated from mixed vegetable pickle	
112	Sidra Arooj	BS	13- B/LCW U- 23018	Statistical optimization of critical medium components by a culture isolated from an oily curry of <i>Cicer arietinum</i> (L)	
113	Faiza Muzaffar	BS	130007-6-	Statistical optimization of critical medium components by a new isolate from oily curry of <i>Solanum tuberosum</i> (L)	
<b>BS (Hons) GCUF 2004-2008</b>					
114	Yasir Hussain	BS (Hons)	1005	Screening of fungi from various substrates and improvement of selected strains through mutagenesis for enhanced lipolytic potential	
115	Uzma Kanwal	BS (Hons)	1017	Nutritional studies for the biosynthesis of lipases by <i>Aspergillus niger</i>	
<b>2006-2010</b>					
116	Ayesha Hanif.	BS (Hons)	1002	Optimization of cultural conditions for the biosynthesis of lipases by <i>Rhizopus microsporous</i> (MBL 25) through submerged fermentation.	

117	Erum Asghar Ali	BS (Hons)	1010	Optimization of cultural conditions for the biosynthesis of lipases by <i>Fusarium oxysporum</i> (MBL 21) through solid state fermentation.	
118	Zaib un Nisa	BS (Hons)	1015	Optimization of cultural conditions for the biosynthesis of lipases by <i>Penicillium chrysogenum</i> (MBL 22) through solid state fermentation	
<b>2007-2011</b>					
119	Asad Abbas	BS (Hons)	1043	Biosynthesis of invertase by <i>Penicillium chrysogenum</i>	
120	Shamona Shahid	BS (Hons)	1007	Biosynthesis of invertase by <i>Aspergillus niger</i>	
121	Anam Anwar	BS (Hons)	1017	Biosynthesis of invertase by <i>Rhizopus oligosporous</i>	

### **RESEARCH STUDENTS CO-SUPERVISED**

#### **Year 2017 (MPhil) LCWUL**

122	Anila Younas	5155213	2015-2017	Lipase Production from <i>Alternatia gaisen</i> (HARA) Nagano by solid state fermentation using different agricultural byproducts
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#### **Year (2008- 2010) (MPhil) GCUF**

123	Kamran Bashir	45	2009-2011	Agronomic trials on sugarcane crop under Gojra conditions, Pakistan
124	Sidra	52	2009-2011	Production, purification and characterization of extra and intracellular lipases by <i>Fusarium</i> sp. <b>2010</b>

#### **Year (2008-2010) GCUF**

125	Sobia Kanwal	31	2008-2010	Process optimization for lipase production from <i>Aspergillus</i> sp. (MBL 24) through submerged fermentation technique
126	Lubna Mushtaq	15	2008-2010	Production of Lipases by <i>Fusarium</i> sp. through submerged fermentation.
127	Maryam Iftikhar	04	2008-2010	Production of Lipases by <i>Alternaria</i> sp. through solid substrate fermentation.
128	Kanwal Shaheen	39	2008-2010	Process optimization for lipase production from <i>Aspergillus niger</i> (MBL 24) through solid state fermentation technique

#### **Year (2006-2010) GCUF**

129	<u>Faiza Akram</u>	<u>1019</u>	2006-2010	Optimization of cultural conditions for the biosynthesis of lipases by <i>Trichophyton</i> sp. (MBL 23) through solid substrate fermentation
130	<u>Tanveera Fatima</u>	<u>1009</u>	2006-2010	Optimization of cultural conditions for the biosynthesis of lipases by <i>Penicillium chrysogenum</i> (MBL 22) through submerged fermentation.
131	<u>Rabia Khan</u>	<u>1021</u>	2006-2010	Optimization of cultural conditions for the biosynthesis of lipases by <i>Rhizopus oligosporous</i> (MBL 22) through Solid substrate fermentation.
132	<u>Sadia Aziz</u>	<u>1005</u>	2006-2010	Process optimization for lipase production from <i>Aspergillus niger</i> (MBL 24) through Submerged fermentation technique

#### **MPhil (2009-2011)**

133	Javeeria Rehman	1309		Production, Partial purification and characterization of glucoamylase from <i>Rhizopus oligosporus</i> through submerged fermentation
134	Samina	1310		Production, Partial purification and characterization of glucoamylase from <i>Aspergillus niger</i> through submerged fermentation
135	Abdul Qayyum	-		Production, Partial purification and characterization of glucoamylase from <i>Penicillium chrysogenum</i> through submerged fermentation

#### **MSc (2009-2011)**

136	Asifa Ramzan	1273	2009-2011	Optimization of cultural conditions for the production of glucoamylases from <i>Rhizopus oligosporus</i> through solid substrate fermentation
137	Dur e Nayab	1260	2009-2011	Optimization of cultural conditions for the production of glucoamylases from <i>Alternaria alternata</i> through solid substrate fermentation
138	Rashid Naeem	1265	2009-2011	Optimization of cultural conditions for the production of glucoamylases from <i>Aspergillus niger</i> through solid substrate fermentation
139	Muhammad Hassan Raza	1354	2009-2011	Optimization of cultural conditions for the production of glucoamylases from <i>Penicillium chrysogenum</i> through solid substrate fermentation
140	Mamona Tabbasum	1334	2009-2011	Optimization of cultural conditions for the production of glucoamylases from <i>Fusarium solinii</i> through solid substrate fermentation

#### **BS (Hons) 2008-2011**

141	Almas Jahan	1034	2008-2011	Fungal Plant Association of <i>Hetrophragma</i> sp. from selected territories of Faisalabad region
142	Faiqa Rafi	1030	2008-2011	Fungal Plant Association of <i>Ficus</i> sp. from selected territories of Faisalabad region
143	Haleema Sadia	1035	2008-2011	Fungal Plant Association from selected territories of Faisalabad region

**NEW COURSES DESIGNED:** [REG- ACAD 27/22 DATED 4-10-2022]: Following New Courses were approved in 66<sup>th</sup> meeting of syndicate held on 12-9-2022 and designed as per requirement of various programmes:

#### **BS Botany (New Course) 3(2+1):**

1. Bot 4212 and bot 4212P: Fundamentals of Biotechnology (Elective Course) [approved +designed]
2. Bot 4103 and Bot 4103P: Virology and Bacteriology [approved +designed]
3. Bot 4104 and Bot 4104P: Floriculture
4. Bot 4105 and Bot 4105P: Introduction to Horticulture

#### **MS Botany (New Course): 3(2+1):**

1. Bot 7106, Bot 7106P: Fermentation Technology [approved +designed]
2. Bot 7107, Bot 7107P: Research Methodology [approved +designed]

#### **MS Botany (Ammended); 3(2+1):**

1. Bot 7102: Phytopathology

**PhD Botany (New Course): 3**

1. Bot 8112: Research Methods [approved +designed]
2. Bot 8109: Project Planning, Monitoring and Evaluation [approved +designed]

**Coursera Project Network |Completed Courses-Year-2023, Cohort 2, Higher Education Commission Pakistan]**

1. Mycelium Growth with NetLogo Web, **completed on 18-12-2023**, by Danilo Oliveira Vaz, Complexity Researcher and Practitioner, Verify at: <https://coursera.org/verify/4LNH A 57FKD PV>.
2. How To Visualize Your Data Using Microsoft Powerpoint, **completed on 18-12-2023**, Ashraf Badr Product Development Professional Product Development, Verify at <https://coursera.org/verify/W 9ZD 7EG VA S 89>.
3. Create a Profile and Network on LinkedIn, **completed on 17-12-2023** Heidi Barker, Subject Matter Expert, Freedom Learning Group, Verify at: <https://coursera.org/verify/53R9A P2YQT 96>.
4. Create a Resume and Cover Letter with Word, **completed on 17-12-2023**, Andres Rodriguez, Subject Matter Expert, Freedom Learning Group, Verify at : <https://coursera.org/verify/H 3C 9KJD D T C P8>.
5. Create a Departure and Personal Statement for Interviews **completed on 27-11-2023**, by Dianna Eckford, Director/Manager/Consultant, Verify at: <https://coursera.org/verify/8V7KU E4VFYJA>

**Coursera |Completed Courses-Year-2024, Cohort 2, Higher Education Commission Pakistan]**

6. AI for Everyone, **completed on 11-1-2024**, by Andrew Ng, Founder, DeepLearning.AI, Co-founder, Coursera Verify at: <https://coursera.org/verify/VG BC Y7L9QN5T>
7. Experimental Design Basics, **completed on 17-1-2024**, Douglas C. Montgomery, Regents' Professor of Engineering, ASU Foundation Professor of Engineering School of Computing, Informatics, and Decision Systems Engineering, Verify at: <https://coursera.org/verify/6FM GG M PBU JA 4>
8. Take your resume to the next level with Canva, **completed 21-1-2024**, Monica I Heredia, Social Media Specialist and Content Creator, Telecommunications, Verify at: <https://coursera.org/verify/G 5VL6C D G 6A M L>.
9. Get Started with Presentation Applications: PowerPoint, **completed on 1-2-2024**, JPS Kohli, CEO, Skill-Up Technologies, Skill-Up EdTech/Steve Ryan, Instructional Designer & Content Developer, Skill-Up Technologies, Verify at: <https://coursera.org/verify/4BFX3S N33B7K>.

## PUBLICATIONS

### [BOOKS, AUTHORED BOOK]

1. Hammad Majeed and **TEHREEMA IFTIKHAR**. 2025. **Intelligent Manufacturing in Industry 6.0 - Climate Resilience Approach**. ISBN978-3-032-07277-1, Softcover ISBN978-3-032-07280-1, eBook ISBN978-3-032-07278-8. Springer Nature Switzerland AG. 2026 [[Intelligent Manufacturing in Industry 6.0: A Climate Resilience Approach: Majeed, Hammad, Iftikhar, Tehreema: 9783032072771: Amazon.com: Books](#)]. **Publisher** : Springer; **Publication date** : January 3, 2026; **Language** : English; **Print length** : 698 pages; **ISBN-10** : 3032072778; **ISBN-13** : 978-3032072771; **Item Weight** : 2.77 pounds; **Dimensions** : 6.3 x 1.61 x 9.49 inches.

### [BOOK CHAPTERS]

1. **YEAR 2025: ALGAE BIOTECHNOLOGY FOR BIOMEDICAL AND NUTRITIONAL APPLICATIONS.** Editors: Ashfaq Ahmad and Syed Salman Ashraf. **Chapter 7:** Potential microalgae-derived antioxidants as human health supplements nutritional evaluation and benefits. Muhammad Afzaal, Aruba Imran, Syeda Saira Iqbal, Sadia Nawaz, Andleeb Batool, Naeem Akhtar abbasie, **TEHREEMA IFTIKHAR**, Rab Nawaz, Aamir Amanat Ali, Nehsoon Tahir Sharif and Manzar Zahra. DOI: <https://doi.org/10.1016/B978-0-443-24006-5.00011-0>. Elsevier Inc. All rights are reserved, including those for text and data mining, AI training, and similar technologies. Elsevier. Academic Press. [PP: 131-144].
2. **YEAR 2025: ALGAE BIOTECHNOLOGY FOR BIOMEDICAL AND NUTRITIONAL APPLICATIONS.** Editors: Ashfaq Ahmad and Syed Salman Ashraf. **Chapter 10:** Therapeutic potential of microalgae-derived innovative biomaterial. Muhammad Afzaal, Aruba Imran, Sadia Nawaz, Syeda Saira Iqbal, Muhammad Umar Hayat, Andleeb Batool, **TEHREEMA IFTIKHAR**, Rab Nawaz, Urooj Naeem, Nehsoon Tahir Sharif, DOI: <https://doi.org/10.1016/B978-0-443-24006-5.00001-8>. Elsevier Inc. All rights are reserved, including those for text and data mining, AI training, and similar technologies. Elsevier. Academic Press. [PP: 191-204].
3. **YEAR 2024: Soil, Water Pollution and Mitigation Strategies: A Spatial Approach** (Book Edited by Partha Pratim Adhikary, Pravat Kumar Shlt, Jayasree Laha. Chapter 18. Arsenic Contaminants of Groundwater and Its Mitigation. Khalil Ahmad, Habib Ur Rahman Shah, Khizar Qureshi, Hammad Majeed, Ifzan Arshad, Tabinda, Muhammad Ashfaq, Muhammad Zubair, **TEHREEMA IFTIKHAR** Book Chapter Submitted. **Publisher:** Springer Nature Switzerland AG. Book Series: Environmental Science and Engineering (2024). Book chapter Accepted [**electronic ISBN#**: 978-3-031-63296-9, **Print ISBN#**: 978-3-031-63295-2, **DOI#**: <https://doi.org/10.1007/978-3-031-63296-9>.] [Soil, Water Pollution and Mitigation Strategies | [springerprofessional.de](https://springerprofessional.de)] Pp: 389-415.
4. **YEAR 2023: Hammad Majeed, TEHREEMA IFTIKHAR, Syeda Shehwar Zahra, Muhammad Waheed, Mubashir Niaz, Samar Bashir, Faizah Altaf, Arwa A. AL-Huqail. "Essentials of Medicinal and aromatic crops" Chapter 13: Wild Marigold.** Authors; Publisher: Springer Nature Switzerland AG.. **Corresponding Author:** **TEHREEMA IFTIKHAR** [<https://link.springer.com/book/9783031354021>]. [https://doi.org/10.1007/978-3-031-35403-8\\_13](https://doi.org/10.1007/978-3-031-35403-8_13)
5. **YEAR 2023: TEHREEMA IFTIKHAR, Hammad Majeed, Muhammad Waheed, Syeda Shehwar Zahra, Mubashir Niaz, Bushra Bilal, Muhammad Riaz. "Essentials of Medicinal and aromatic crops" Chapter 14: Vanilla.** Authors; Publisher: Springer Nature Switzerland AG.. **Corresponding Author:** **TEHREEMA IFTIKHAR** [<https://link.springer.com/book/9783031354021>].

[https://doi.org/10.1007/978-3-031-35403-8\\_14](https://doi.org/10.1007/978-3-031-35403-8_14).

6. **YEAR 2023: TEHREEMA IFTIKHAR**, Hammad Majeed, Muhammad Waheed, Syeda Shehwar Zahra, Mubashir Niaz, Arwa A. AL-Huqail. “Essentials of Medicinal and aromatic crops” **Chapter 15: Tuberose.** Authors; Publisher: Springer Nature Switzerland AG. **Corresponding Author: TEHREEMA IFTIKHAR** [<https://link.springer.com/book/9783031354021>]  
[https://doi.org/10.1007/978-3-031-35403-8\\_15](https://doi.org/10.1007/978-3-031-35403-8_15).
7. **YEAR 2023: TEHREEMA IFTIKHAR**, Hammad Majeed, Syeda Shehwar Zahra, Muhammad Waheed, Mubashir Niaz, Naheed Bano. “Essentials of Medicinal and aromatic crops” **Chapter 16: Thyme.** Publisher: Springer Nature Switzerland AG. **Corresponding Author: TEHREEMA IFTIKHAR** [<https://link.springer.com/book/9783031354021>]. [https://doi.org/10.1007/978-3-031-35403-8\\_16](https://doi.org/10.1007/978-3-031-35403-8_16).
8. **YEAR 2022:** The COVID-19 Pandemic; A multidisciplinary Review of Diagnosis, Prevention and Treatment (Editors: Hanadi T. A., M. Riaz, Sagheer A., Marius-Alexandru M.) Part 3; Treatment; Chapter # 11; The Role of Natural Products in COVID-19 (Chapter Authors: I. Akhtar, S. Javad, **TEHREEMA IFTIKHAR**, A. Tariq, H. Majeed, A. Ahmad, Muhammad A., and M. Z. Haq) Apple Academic Press Inc. USA. **ISBN: 9781774910504.** Publication date: June 2022. <https://www.appleacademicpress.com/the-covid-19-pandemic-a-multidisciplinary-review-of-diagnosis-prevention-and-treatment/9781774910504>).
9. **YEAR: 2022:** The COVID-19 Pandemic; A multidisciplinary Review of Diagnosis, Prevention and Treatment (Editors: Hanadi T. A., M. Riaz, Sagheer A., Marius-Alexandru M.) Part 3; Treatment; Chapter 10: COVID-19 Pandemic and Traditional Chinese Medicines  
*R. Abdullah, A. Toor, H. Qaiser, A. Kaleem, M. Iqtedar, **TEHREEMA IFTIKHAR**, M. Riaz, and Dou Deqiang.* Apple Academic Press Inc. USA. **ISBN: 9781774910504.** <https://www.appleacademicpress.com/the-covid-19-pandemic-a-multidisciplinary-review-of-diagnosis-prevention-and-treatment/9781774910504>.
10. **YEAR 2021:** Qaiser H., Abdullah R., **TEHREEMA IFTIKHAR**, H. Majeed, Imran I. **(2021) COVID-19 Pandemic and Vaccines.** In: Zia-Ul-Haq M., Bin-Jumah M.N., Alothman S.I., Henidi H.A. (eds) Alternative Medicine Interventions for COVID-19 [(ISBN 978-3-030-67988-0 ISBN 978-3-030-67989-7 (eBook), <https://doi.org/10.1007/978-3-030-67989-7>]. **Springer Nature** Switzerland AG, Cham. [https://doi.org/10.1007/978-3-030-67989-7\\_7](https://doi.org/10.1007/978-3-030-67989-7_7) (Chapter DOI). **Corresponding Author: TEHREEMA IFTIKHAR.**

## Sequences submitted to Genbank

1. PV789582 695 bp DNA linear PLN 20-JUN-2025. Submitted by Ali,M.B., Iftikhar,T. and Majeed,H. *Pleurotus pulmonarius*.
2. GenBank: EU368167.1. AUTHORS Iftikhar,T., Lee,K.J. and Haq,I.U. TITLE Partial cDNA lipase gene sequence of *Rhizopus microsporus* var. *oligosporus*"
3. GenBank: MK418235.1. AUTHORS Iftikhar,T., Sarwar,S., Bashir,T., Khalid,A. and Arooj,S. TITLE Micromycetes of Pakistan
4. GenBank: MK418234.1. AUTHORS Iftikhar,T., Sarwar, S., Bashir,T., Khalid,A. and Arooj,S. TITLE Micromycetes of Pakistan
5. GenBank: MK418234.1. AUTHORS Iftikhar,T., Sarwar,S., Bashir,T., Khalid,A. and Arooj,S. TITLE Micromycetes of Pakistan
6. SUB13756801 Consensus\_B-3 OR432522 *Bacillus cereus* B3
7. SUB13756801 Consensus\_B-2 OR432523 *Bacillus subtilis* B2
8. SUB13756801 Consensus\_B-4 OR432524 *Pseudomonas aeruginosa* B4
9. SUB13756801 Consensus\_B-1 OR432525 *Pseudomonas putida* B1

**Research Publications (TOTAL PUBLISHED) 123 (IMPACT FACTOR: 192.43) (h-index = 28, i10= 65)**

**PUBLICATION STATUS**

Total claimed publications	<b>123</b>
Publications in IF journals (W category)	<b>79</b>
Publications in IF journals (X category)	<b>19</b>
Publications in IF journals (Y category)	<b>5</b>
Publications in ISI-indexed Journals (indexed in ISI master List)	<b>12</b>
Number of Publications in non HEC recognized journals	<b>8</b>

**LIST OF PUBLICATIONS**

List of authors with publication title	Journal name, year, vol. & page number	IF	HEC recognized category/ JCR (W, X, Y, Z)	URL/web link of the paper
1. Hammad Majeed, Muskan Irfan, Mehak Irfan, Tehreema Iftikhar, Intelligent multi omics and industry 6.0 and 7.0 enabled technologies for deciphering the tumor immune microenvironment and advancing cancer immunotherapy.	<i>Toxicology Research</i> , , February. 15,1,: 2026	2.1	W	<a href="https://doi.org/10.1093/toxres/tfa002">https://doi.org/10.1093/toxres/tfa002</a>
2. ALI, M. B., Iftikhar, T., & Majeed, H. (2026). Optimization of different spawn types of Pleurotus pulmonarius and blending of its flour with local flours by using MATLAB linear programming.	<i>Pak. J. Bot</i> , 58, 1. 2026	1.2	X	
3. Bilal, Bushra, Zafar Siddiq, <u>TEHREEMA IFTIKHAR</u> · Muhammad Umar Hayyat · Hammad Majeed. Role of <i>Bacillus pseudomycoides</i> in Enhancing the Nutritional Profile of Five <i>Vigna radiata</i> (L.) Cultivars Under Saline Stress	Journal of Soil Science and Plant Nutrition. 15-7-2025	3.1	W	<a href="https://doi.org/10.1007/s42729-025-02603-9">https://doi.org/10.1007/s42729-025-02603-9</a>
4. <u>TEHREEMA IFTIKHAR</u> , Hammad Majeed, Syeda Shehwar Zahra. Plant Patent Systems for Equity and Sustainability.	Trends in Intellectual Property Research. 3(1),6-10. 2025	-	-	<a href="https://doi.org/10.69971/tipr.3.1.2025.41">https://doi.org/10.69971/tipr.3.1.2025.41</a>
5. Hammad Majeed, TEHREEMA IFTIKHAR, Qamar Abbas. Ecofriendly techniques for the sustainable degradation of synthetic plastic polymers using a bacterial hyperproducer. 1387-585X.	Environment, Development and Sustainability. 2025	4.9	W	<a href="https://doi.org/10.1007/s10668-025-06247-8">https://doi.org/10.1007/s10668-025-06247-8</a>

6. Maryam Akhtar, Hammad Majeed, TEHREEMA IFTIKHAR, Khalil Ahmad. Climate friendly MOFs synthesis for drug delivery systems by integrating AI, intelligent manufacturing, and quantum solutions in industry 6.0 sustainable approach . Volume 14, Issue 1, , tfaf011	<i>Toxicology Research</i> , , February 2025	2.1	W	<a href="https://doi.org/10.1093/toxres/tfaf011">https://doi.org/10.1093/toxres/tfaf011</a>
7. Ali, Muhammad, Bin., H. Majeed and TEHREEMA IFTIKHAR. Green Synthesis of Zinc Oxide Nanoparticles for the Industrial Biofortification of ( <i>Pleurotus pulmonarius</i> ) Mushrooms, HELIYON,	Heliyon Volume 10, Issue 19, 15 October 2024, e37927 (2024)	4.0	W (Gold)	<a href="https://doi.org/10.1016/j.heliyon.2024.e37927">https://doi.org/10.1016/j.heliyon.2024.e37927</a>
8. Majeed, H., TEHREEMA IFTIKHAR, Rehman Manzoor. Extraction and Characterization of Novel Alternative Cellulosic Fiber for Sustainable Textiles from <i>Aloe barbadensis</i> Miller Stems (Agricultural Waste).	Heliyon Volume 10, Issue 18, 30 September 2024, e37428 (2024)	4.0	W (Gold)	<a href="http://10.1016/j.heliyon.2024.e37428">http://10.1016/j.heliyon.2024.e37428</a>
9. Majeed, H., TEHREEMA IFTIKHAR, Sumaira Mustafa. Statistical approach for newly isolated and identified microbial lipases production.	Polymer Bulletin / 81:15823–15840/2024	3.2	W(HM)	<a href="https://doi.org/10.1007/s00289-024-05445-0">https://doi.org/10.1007/s00289-024-05445-0</a>
10. M. Irfan, H. Majeed, TEHREEMA IFTIKHAR and Pritam K. Ravi. 2024. A review on molecular scissoring with CRISPR/Cas9 genome editing technology	Toxicology Research [Oxford], 2024, <b>13</b> , 1–13	2.1	X (Clay)	<a href="https://doi.org/10.1093/toxres/tfae105">https://doi.org/10.1093/toxres/tfae105</a>
11. Bilal, Bushra, Siddiq, Z., TEHREEMA IFTIKHAR & Hayyat, M. U. Mitigating NaCl stress in <i>Vigna radiata</i> L. cultivars using <i>Bacillus pseudomycoides</i> , 12, e17465.	PeerJ / 2024	2.3	W (Silver)	<a href="https://doi.org/10.7717/peerj.17465">https://doi.org/10.7717/peerj.17465</a>
12. Majeed, H., and TEHREEMA IFTIKHAR. Ecofriendly reactive printing of cellulosic fabric with sustainable novel techniques. <i>Cellulose</i> (June 06, 2024). 10.1007/s10570-024-06008-2.	Cellulose / 2024 /Vol 31, pp: 7067–7081	4.9	W (Gold)	DOI: 10.1007/s10570-024-06008-2
13. Majeed, H., TEHREEMA IFTIKHAR and Rida Abid. Green Synthesis of Insecticidal, Bactericidal, UV Absorbent, Sustainable Paint Formulations by Using <i>Mentha Piperita</i> (Peppermint).	Reaction Chemistry & Engineering/ 2024 / React. Chem. Eng.,	3.9	W (BRONZE)	DOI: 10.1039/d4re00221k (13 June 2024).

	<b>2024,9, 2358-2366</b>			
14. Majeed, H., TEHREEMA IFTIKHAR and Kiran Maqsood. Synthesis of protein-based catalyst for multi-industrial applications by using agriculture and industrial waste	Polymer Bulletin / 2024 / Volume 81, pages 12633– 12653	<b>3.2</b>	<b>W(HM)</b>	<a href="https://doi.org/10.1007/s00289-024-05302-0">https://doi.org/10.1007/s00289-024-05302-0</a>
15. Majeed, H., TEHREEMA IFTIKHAR, Muhammad Zohaib. Extension of guava shelf life through the application of edible coating formulated with mango and lemon leaves extracts.	Industrial Crops & Products 216 /2024 /216:118671	<b>5.9</b>	<b>W (Platinum)</b>	<a href="https://doi.org/10.1016/j.indcrop.2024.118671">https://doi.org/10.1016/j.indcrop.2024.118671</a>
16. Majeed, H., K. Ahmad, S. Bibi, TEHREEMA IFTIKHAR, M. M. Ibrahim, T. Ruby, Gaber A.M. Mersal, Zeinhom M. El-Bahy, K. Qureshi, M. Arif, K. Naseem, S. Shaheen, H. N. Bhatti. <i>Tamarindus indica</i> seed polysaccharide-copper nanocomposite: An innovative solution for green environment and antimicrobial studies.	Heliyon/ 10/ 2024 e30927	<b>4.0</b>	<b>W (Gold)</b>	<a href="https://doi.org/10.1016/j.heliyon.2024.e30927">https://doi.org/10.1016/j.heliyon.2024.e30927</a>
17. Naveed, N., Ahmad, K., Majeed, H., Qureshi, K., Ahmad, I., Awan, M.F., TEHREEMA IFTIKHAR, Ahmad, S., Noreen, F., Amin, M.A. and Batool, H., 2024. The Global Impact of COVID-19: A Comprehensive Analysis of Its Effects on Various Aspects of Life.	Toxicology Research [Oxford]/ 13(2):0-45, April 2024,	<b>2.1</b>	<b>X (Clay)</b>	<a href="https://doi.org/10.1093/toxres/tfa045">https://doi.org/10.1093/toxres/tfa045</a>
18. Majeed, H., TEHREEMA IFTIKAR and Abbas, Qamar. "Climate resilience plastic degradation potential of <i>Pseudomonas putida</i> isolated from the soil of plastic waste dumping sites to reduce GHG emissions"	Zeitschrift für Physikalisch e Chemie/ 2024. 238 (5): 797- 807.	<b>2.79</b>	<b>X (Clay)</b>	<a href="https://doi.org/10.1515/zpch-2023-0316">https://doi.org/10.1515/zpch-2023-0316</a>
19. Majeed, H., TEHREEMA IFTIKHAR and Alia Siddique. Agricultural waste upcycling into improved production of triacyl glycerol acyl hydrolases	Zeitschrift für Physikalisch e Chemie [Germany]/ 2024. 238(5 ):809-827	<b>2.79</b>	<b>X (Clay)</b>	<a href="https://doi.org/10.1515/zpch-2023-0474">https://doi.org/10.1515/zpch-2023-0474</a>
20. Majeed, H., TEHREEMA IFTIKAR, Umair Mukhtar. Novel approach to water-efficient bulk industrial textile printing production of cotton fabric	International Journal of Biological Macromolec	<b>8.2</b>		<a href="https://doi.org/10.1016/j.ijbiomac.2024.130">https://doi.org/10.1016/j.ijbiomac.2024.130</a>

	ules. / 2024 262 (1-12)		<b>W (Gold)</b>	064
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22. Hammad Majeed*, <u>TEHREEMA IFTIKHAR</u> * and Kiran Maqsood. Temporal and thermal dynamics exploration of different detergents' formulations components on fungal alkaliphilic lipases stability	Zeitschrift Fur Physikalisch e Chemie <b>2024</b> , 238(3)-563- 570	<b>2.79</b>	<b>X (Clay)</b>	<a href="https://doi.org/10.1515/zpch-2023-0429">https://doi.org/10.1515/zpch-2023-0429</a>
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## **PROF. DR. TEHREEMA IFTIKHAR – A PIONEER IN APPLIED BOTANY AND BIOTECHNOLOGY**

Prof. Dr. Tehreema Iftikhar is a distinguished scientist and academic leader, currently serving as the Professor, Department of Botany, Government College University (GCU), Lahore, Pakistan. As the first female professor in the department's 112-year history, she has been instrumental in shaping the future of botanical sciences in Pakistan. Holding the rank of Professor (BPS-21) since 2019, she has made significant contributions to research, education, and industrial collaboration.

Prof. Dr. Tehreema Iftikhar's leadership extends beyond academia. She was elected as the Vice President (Punjab) of the Pakistan Botanical Society (2018–2022) and is a Fellow of the Biological Society of Pakistan and a lifetime member of the Pakistan Botanical Society. She has also served as Joint Secretary of the Pakistan Botanical Society (2012–2013). In recognition of her leadership potential, she became a Fellow of the Women Leadership Program at Michigan State University (USA), administered in collaboration with the U.S. Consulate Islamabad and the Higher Education Commission (HEC) Pakistan (2023).

With a career spanning over two decades, Dr. Tehreema Iftikhar has played a transformative role in multiple academic institutions. Before her current appointment, she served as Associate Professor at Lahore College for Women University (2015–2019) and held faculty positions at GCU Faisalabad (2003–2015), progressing from Lecturer to Assistant Professor and Associate Professor. She served the Government of Punjab as Assistant Professor for three years.

Her academic credentials include MSc, MPhil, and PhD degrees in Botany from Government College University, Lahore. She was awarded the Governor's Award for her PhD in Botany (2003). Her postdoctoral research has significantly contributed to global scientific advancements. She completed a PhD fellowship at Seoul National University, South Korea (2007), awarded by HEC Pakistan, specializing in bioprocessing and cDNA library construction. She completed her postdoctoral research at Cornell University, NY, USA (2012–2013) under HEC's Postdoctoral Fellowship Program, where she developed expertise in enzyme inactivation using Supercritical Carbon Dioxide in food engineering and technology.

### **Research and Industrial Collaborations**

Prof. Dr. Tehreema Iftikhar's extensive research expertise spans applied botany, enzymology, biotechnology, and mathematical and statistical modeling using Design Expert software. She holds numerous high ranked impactful publications. Her research excellence is further demonstrated by her 35 patents submitted as of December 2024, with one patent granted in 2021 as the leading filer. Her first author book is published in January 2026 from Springer Nature on Industrial revolution 6.0.

She has led several high-impact research projects, including a PKR 6.22 million project sponsored by HEC Pakistan. She successfully completed a research project on enzymology (2023) and currently leads an ongoing project awarded in 2024. Her commitment to mentorship and scientific growth is reflected in 125+

PhD, MPhil, BS, and MSc research dissertations supervised, including international scholars from Azerbaijan (2022–2023) under the Comstech Consortium of Excellence Program in Applied Botany.

### **International Recognition and Leadership Development**

Prof. Dr. Tehreema Iftikhar has received international recognition for her contributions to women's leadership in higher education. She successfully completed the Women Leadership Training (2022) at HEC Pakistan and was selected for the 10-month Aspiring Leaders Program (Cohort 2) of the Empowering Women in Higher Education in Pakistan Program (2023), sponsored by Michigan State University and the U.S. Department of State.

She has played a vital role in capacity-building initiatives in collaboration with Punjab's Forest Department, where she trained women and staff in Non-Timber Forest Produce (NTFP) for livelihood generation. Her industrial collaborations have strengthened Pakistan's research and development sector, bridging academia with biotechnology-based enterprises.

### **Academic Administration and Institutional Contributions**

Prof. Dr. Tehreema Iftikhar has served in multiple administrative and leadership roles throughout her career. She has been the Chairperson of the Department of Botany, GCU Lahore (2019–2023; January 2025 to date) and has held additional responsibilities, including:

- Secrecy Officer (Office of the Controller of Examinations, GCU Faisalabad) for four years.
- Warden and Superintendent of Girls' Hostels at GCU Lahore and GCU Faisalabad, Pakistan.
- Superintendent, Fatima Jinnah Girls' Hostel, GCU Lahore Pakistan (2020–2022).
- Member of multiple Departmental and University Committees at GCU Lahore, GCU Faisalabad, and Lahore College for Women University, Lahore, Pakistan

### **Awards and Recognition**

Dr. Iftikhar's dedication to scientific research, academic leadership, and mentorship has been recognized through numerous prestigious awards, including:

- Quaid-e-Azam Medal
- Best Teacher Award
- Multiple Research Publication Awards
- Patent Award for Innovations in Applied Botany

### **Vision for Scientific Advancement**

Prof. Dr. Tehreema Iftikhar is a strong advocate for scientific innovation, sustainability, and academic excellence. She firmly believes in the creative and innovative capabilities of the human mind and continuously strives to push the boundaries of research for societal progress and industrial impact. Through her pioneering work in biotechnology, enzyme engineering, and applied botany, she aims to drive scientific

advancements that contribute to global sustainability and economic growth, positioning Pakistan as a leader in botanical research and green technologies.