



Dr. Andleeb Anwar Sardar

Assistant Professor, Department of Botany (Govt College University Lahore, Pakistan)

Father's Name	Muhammad Anwar Summan
Qualification	PhD Botany, MPhil Biotechnology
Research Areas	Taxonomy, Palynology, Natural Products, Antioxidants and Ethnobotany
Nationality	Pakistani
Gender	Female
Marital Status	Married
Date of Birth	November 20, 1981
Contact Details	Cell # 0322-4215541 UAN # 111-000-010 Ext. 413 E-Mail: andleebanwar@gcu.edu.pk Adress: Sardar House, 844B J-II Block, Muhammad Ali Johar Town, Lahore, Pakistan.
N.I.C. No.	35202-2774461-8
Birth Place	Narowal

➤ Work Experience

1. **Assistant Professor** at Botany Department Government College University Lahore, Pakistan (March 2017 to date)
2. **Lecturer** at Botany Department Government College University Lahore, Pakistan (May 2016 to March 2017)
3. **Case Analyst** (BS-17), September 2006-to May 2016 at Government College University Lahore, Pakistan.
4. **Visiting Faculty** for teaching of **MSc Botany Evening Program** at Botany Department Government College University Lahore, Pakistan

➤ Education

PhD Botany, Govt College University Lahore **(2014)**

Thesis: “A Contribution to the Morphological and Ethnopharmacological (Antioxidants)

Studies of the Pollen Grains of Wetland Plants of Punjab, Pakistan”

M.Phil Industrial Biotechnology, 1st Division, Govt College University Lahore **(2006)**

Thesis: “Submerged citric acid fermentation of hydrolysed sweet potato starch by

Aspergillus niger”

M.Sc Botany, 1st Division, Govt College University Lahore **(2004)**

Thesis: “A contribution to the **flora** of Tehsil Shakargarh, District Narowal”

B.Sc (Botany, Zoology and Chemistry), 1st Division, University of the Punjab Lahore
(2002)

Intermediate (Pre-medical), 2nd Division, Board of Intermediate and Secondary
Education, Lahore **(2000)**

Matriculation (Science group), 1st Division, Board of Intermediate and Secondary
Education, Lahore **(1998)**

➤ Courses Taught

1. Plant Systematic, Anatomy and Development (Bot-1201)
2. Plant Systematics (Bot-3105)
3. Cell Biology, Genetics and Evolution (Bot-2101)
4. Diversity of Plants-I (BB-1101)
5. Palynology (Bot-7105)

➤ Publications

1. Saima Ramzan, Wail Alsolami, Uzma Hanif, Andleeb Anwar Sardar, Hammad Ahmad Jan, Adeel Mustafa, Muhammad Bilal, Krishna Prasad Sharma, A. El-Shabasy. 2024.

- Cultural Significance and Indigenous Knowledge of Medicinal Plants in Tehsil Arifwala, Punjab, Pakistan: A Comprehensive Study. CATRINA (2024), 32 (1):29-43.
2. Yousra Ahsan, Aisha Waheed Qurashi, Iram Liaqat, Asma Latif, Muhammad Afzaal, Zahid Mehmood, Hsi-Hsien Yang, Muhammad Umer Farooq Awan, Usman Ahmed, Ali Hasnain, Muhammad Luqman, Sohaib Muhammad, **Andleeb Anwar Sardar**, Tsai-Yu Chan and Aleeha Sharjeel. 2024. Effects of Air Pollution on Morphological, Biochemical, DNA, and Tolerance Ability of Roadside Plant Species. Sustainability 2024, 16, 3427. <https://doi.org/10.3390/su16083427>.
 1. Adeel Mustafa, Uzma Hanif, **Andleeb Anwar Sardar** and Hammad Ahmad Jan. 2023. Ethnomedicinal study of medicinal plants used by the population of Taunsa Sharif, Dera Ghazi Khan, Punjab, Pakistan. Ethnobotany Research and Applications 26:13 (2023) - <http://dx.doi.org/10.32859/era.26.13.1-27>.
 2. Awais Khalid and Andleeb A. Sardar. 2023. Efficacy of rice husk and halophilic bacterial biofilms in the treatment of saline water. Journal of Basic Microbiology. 63:855–867.
 3. Mobeen Iqbal, Aiman Arooj, Andleeb Anwar Sardar, Tayyaba Shahzadi, Sohaib Muhammad, Uzma Hanif and Zaheer-Ud-Din Khan. 2023. Palynomorphic Assessment Of Flora inhabited in Aitchison College Lahore, Pakistan. Journal Plantarum., 5(1): 9-24
 4. M. Hussain, I. Liaqat, N. M. Ali, N. Arshad, U. Hanif, S. Sajjadd, Andleeb Anwar Sardar, U.F. Awan, F.S. Khan and Slahuddin. 2023. Antibacterial and bacteriostatic potential of coelomic fluid and body paste of *Pheretima posthuma* (Vaillant, 1868) (Clitellata, Megascolecidae) against ampicillin resistant clinical bacterial isolates. Brazilian Journal of Biology, 2023, vol. 83, e247016 | <https://doi.org/10.1590/1519-6984.247016>.
 5. Arooba John, Muhammad Luqman, Sohaib Muhammad, Uzma Hanif, **Andleeb Anwar Sardar**, Shaukat Ali, Ali Hasnain, Matiba Tufail, Zafar Iqbal Khan, Muhammad Iftikhar Hussain, Binyameen, Muhammad Naveed Anjum, Amna Ejaz, Muhammad Shahzad Chaudhry, Hsi-Hsien Yang and Muhammad Umer Farooq Awan. 2023. Genotoxicity of Synthetic Food Colors on Nitrogen-Fixing Bacteria in Agricultural Lands Irrigated with Wastewater of Corresponding Industries. Sustainability, 15, 2897. <https://doi.org/10.3390/su15042897>

6. Iram Liaqat, Muhammad Mubin, Maleeha Anwar Chaudhry, Najma Arshad, Muhammad Afzaal, Chaman Ara, Nazish Mazhar Ali, **Andleeb Anwar Sardar**, Umer Farooq Awan, Sumera Sajjad, Farzana Rashid, Shaukat Ali. 2021. Multienzyme and Antibacterial Potential of Bacteria Isolated from gut of Asian Honey Bee (*Apis cerana Indica*), Lahore Using Culture Dependent Method. *Brazilian Archives of Biology and Technology* 64(9-16).
7. Shaheen, S., J. Sharifi-Rad, K. Hussain, M. N. Shahid, Z. Shamim, M. Abbas, M. Ahmad, **A.A. Sardar**, R. Sonia and F. Khan. 2021. Micromorphological foliar taxonomic studies of genus *Paspalum* based on scanning electron microscopy. *Microscopy Research and Technique*, 84(12), 3035–3043.
8. Bashir, I., M.U.F. Awan, S. Muhammad, **A .A. Sardar**, M. Luqman, F. Arooj. 2021. Physiochemical Alterations and Air Pollution Tolerance Index in *Ficus religiosa* L. Planted along Polluted Roadsides of Lahore City. *Revista di Chimie*, 72 (3): 1221-121.
9. Riaz, G., Z. Khan, M.U.F. Awan, **A.A. Sardar**, M. Tayyab, S.M. Malik and S. Muhammad. 2021. Multivariate Analysis of Weeds of Chickpea, Mustard and Wheat Crop Fields of Tehsil Isakhel, District Mianwali (Punjab), Pakistan. *Pak. J. Weed Sci. Res.*, 27 (2):153-162.
10. Muhammad, S., S. M. Malik, Z. Khan, M. Tayyab, **A. A. Sardar**, M. Zahid and N. Akram. 2021. Two Way Indicator Species Analysis of weed species of potato and wheat in crop fields of Sharqpur Tehsil, Pakistan. *Bangladesh J. Plant Taxon.*, 28(1): 233-240.
11. I. Liaqat, N. M. Ali, S. A. Mirza, F. Ahsan, **Andleeb Anwar Sardar**, H. M. Tahir, S. Ali, A. W. Qureshi, U. Haneef and M. Ulfat. 2020. Study of biofilm response of *Olea*

- europaea* to UV radiations: an In vitro approach. The Journal of Animal and Plant Sciences. 30(5): 1273-1282.
12. Asma Manzoor, Zahida Parveen, Saima Siddique, **Andleeb Anwar Sardar** and asma Tayyeb. In vitro anticancer and antioxidant potential of *Cestrum* species. 2020. Pakistan Journal of Pharmaceutical Sciences. 33 (4): 1535-1541.
 13. Shabnum Shaheen, Mehwish Jaffer, Barira Aslam, Khadim Hussain, Asaf Khan, Muhammad Ashfaq, Mobina Ulfat, **Andleeb Anwar Sardar**, Mushtaq Ahmad, Muhammad Zafar, Farah Khan. 2018. Microbial assessment of pathogenic bacterial growth in ice cream and kulfa. Microscopy research and technique; 12(81): 1501-1505.
 14. Summiya Faisal, Anjum Perveen, Zaheer-ud-Din Khan, **Andleeb Anwar Sardar**, Shabnum Shaheen and Asma Manzoor. 2018. Phytochemical Screening and antioxidant potential of *Parthenocissus quinquefolia* (L.) plant extracts of Bark and Stem. Pakistan Journal of Pharmaceutical Sciences, 31 (5): 1813-1816.
 15. Zaheer-Ud-Din Khan, Summiya Faisal, Anjum Perveen, **Andleeb Anwar Sardar** and Sabahat Zahara Siddiqui. 2018. Phytochemical Properties and Antioxidant Activities Of Leaves And Fruits Extracts Of *Parthenocissus quinquefolia* (L.) PLANCH. Bangladesh Journal of Botany, 47(1): 33-38.
 16. **Andleeb Anwar Sardar**, Anjum Perveen, Zaheer-ud-din Khan, Sidra Farid, Islam Ullah Khan. 2017. PHYTOCHEMICAL SCREENING, GC-MS ANALYSIS AND IN VITRO ANTIOXIDANT ACTIVITY OF POLLEN OF CENTELLA ASIATICA (LINN) URBAN A TRADITIONAL MEDICINAL PLANT. Pakistan Journal of Pharmaceutical Sciences. 30(6): 2239-2245.

17. **Andleeb Anwar Sardar**, Zaheer-ud-Din Khan, Anjum Perveen, Sidra Farid and Islam U Khan. 2016. IN VITRO ANTIOXIDANT POTENTIAL AND FREE RADICAL SCAVENGING ACTIVITY OF VARIOUS EXTRACTS OF POLLEN OF *NELUMBO NUCIFERA* GAERTN. **Planta Med.** 2016 Dec. 81(S 01):S1-S381 (Abstract only)
18. Arifa Zereen, **Andleeb Anwar Sardar** and Zaheer-Ud-Din Khan. 2016. EFFECTS OF MERCURY RESISTANT BACTERIA ON THE GROWTH OF *TRITICUM AESTIVUM* L. SEEDLINGS AT DIFFERENT CONCENTRATIONS OF MERCURIC CHLORIDE. *Bangladesh J. Bot.* 45(1): 127-132.
19. **Andleeb Anwar Sardar**, Zaheer-ud-Din Khan, Anjum Perveen and Arifa Zereen. 2015. APPRAISAL OF ETHNOBOTANICAL USES OF THE WETLAND PLANTS OF PUNJAB, PAKISTAN. *African Journal of Traditional, Complementary and Alternative Medicines.* 12 (04): 09-13.
20. Arifa Zereen, **Andleeb Anwar Sardar** and Zaheer-Ud-Din Khan. 2015. EFFECTS OF TANNERIES EFFLUENTS OF KASUR DISTRICT ON THE GROWTH AND YIELD OF SOYBEAN (*GLYCINE MAX* L.). *Biologia.* 61 (01): 75-80.
21. Arifa Zereen And **Andleeb Anwar Sardar**. 2015. MULTIVARIATE ANALYSIS OF ENVIRONMENT-VEGETATION COMPLEX OF VEHARI DISTRICT, PAKISTAN. *Bangladesh Journal of Botany.* 44(3): 399-405.
22. Arifa Zereen, Sheikh Saeed Ahmad, **Andleeb Anwar Sardar** and Zaheer-Ud-Din Khan, Muhammad nawaz. 2015. MULTIVARIATE ANALYSIS OF THE ECOLOGICAL DATA OF NATURAL VEGETATION OF LAHORE DISTRICT. *Journal of Biodiversity and Environmental Sciences.* 6 (1): 69-76.
23. **Andleeb Anwar Sardar**, Zaheer-ud-Din Khan, Anjum Perveen, Sidra Farid and Islam U Khan. 2014. IN VITRO ANTIOXIDANT POTENTIAL AND FREE RADICAL SCAVENGING ACTIVITY OF VARIOUS EXTRACTS OF POLLEN OF *TYPHA DOMIGENSIS* PERS. 27 (02): 279-284.
24. Arifa Zereen, Sheikh Saeed Ahmad, **Andleeb Anwar Sardar** and Zaheer-Ud-Din Khan. 2014. EVALUATION OF ECOLOGICAL ASPECTS OF NATURAL VEGETATION OF

- PAKPATTAN DISTRICT USING MULTIVARIATE TECHNIQUES. *Journal of Biodiversity and Environmental Sciences*. 05 (04): 230-238.
25. **Andleeb Anwar Sardar**, Anjum Perveen and Zaheer-Ud-Din Khan. 2013. A PALYNOLOGICAL SURVEY OF WETLAND PLANTS OF PUNJAB, PAKISTAN. *Pakistan Journal of Botany*. 45(06): 2131-2140.
 26. Arifa Zereen, Zaheer-ud-Din Khan and **Andleeb Anwar Sardar**. 2013. ETHNOBOTANICAL STUDIES OF WILD HERBS OF CENTRAL PUNJAB, PAKISTAN. *Bangladesh Journal of Plant Taxonomy*. 20(01): 67-76.
 27. Arifa Zereen, Abdul Wahid, Zaheer-Ud-Din Khan and **Andleeb Anwar Sardar**. 2013. EFFECT OF TANNERY WASTEWATER ON THE GROWTH AND YIELD OF SUNFLOWER (*HELIANTHUS ANNUUS* L.). *Bangladesh Journal of Botany*. 42 (02): 279-285.
 28. Uzma Hanif, Madeha Mazhar and **Andleeb Anwar Sardar**. 2013. PALYNOMORPHOLOGICAL STUDIES OF SOME ORNAMENTAL PLANTS OF MALL ROAD, LAHORE. *Biologia*. 59 (01): 147-156.
 29. **Andleeb Anwar Sardar** and Zaheer-ud-Din Khan. 2009. ETHNOMEDICINAL STUDIES ON PLANT RESOURCES OF TEHSIL SHAKARGARH, DISTRICT NAROWAL, PAKISTAN. *Pakistan Journal of Botany*. 41 (01). 11-18.
 30. Samina Anwar, Sikander Ali and **Andleeb Anwar Sardar**. 2009. CITRIC ACID FERMENTATION OF HYDROLYSED RAW STARCH BY *ASPERGILLUS NIGER* IIB-A6 IN STATIONARY CULTURE. *Sindh University Research Journal (Sci. Ser.)*. 41 (01). 01-08.
 31. Zaheer-ud-Din Khan and **Andleeb Anwar Sardar**. 2008. A CHECKLIST OF THE VASCULAR PLANTS OF DIFFERENT SEASONAL ASPECTS IN TEHSIL SHAKARGARH, DISTRICT NAROWAL, PAKISTAN. *Pakistan Journal of Plant Sciences*. 14 (01): 15-19.
 32. **Andleeb Anwar Sardar**, Sikander Ali, Samina Anwar and Ikram-ul-Haq. 2007. CITRIC ACID FERMENTATION OF HYDROLYSED SWEET POTATO STARCH BY *ASPERGILLUS NIGER*. *Pakistan Journal of Biotechnology*. 04 (01): **119-125**.

➤ Research Theses supervised

Undergraduate Stuedents:

1. Noreen Younas (65-BH-Bot-13), A contribution to the Pollen Morphology of Cyperaceae of District Lahore, Punjab Pakistan.

2. Hira Siddique (84-BH-Bot-13), Evaluation of Antioxidant Activity of the fruits of *Physorrhynchus brahuicus* Hooker F. of family Brassicaceae.
3. Javeria Majeed (98-BH-Bot-13), Evaluation of Antioxidant Activity of *Psychrogeton oucheri* (DC.) Grierson of family Compositae.
4. Amna Sultan (1205-BH-Bot-13), Morphological studies of Trichomes of some plants of Botanic Garden, GC University Lahore.
5. Hafiza Ayesha Rahim (62-BH-Bot-13), Contribution to the pollen morphology of Asteraceae of District Narowal.
6. Ayesha Gull (0148-Bh-Bot-2014), In Vitro Antioxidant Activity and Phytochemical Screening of whole Plant *Convolvulus scindicus* of Family Convolvulaceae.
7. Rida Rasheed (1730-BH-Bot-2014), A Contribution to the Morphological studies of pollen of trees of Botanic Garden Lahore
8. Maryam Hussain (152-BH-Bot-2014), A Contribution to the Morphological Studies of pollen of Ornamental Plants of Botanic Garden GC University Lahore.
9. Sadia Saqib (126-BH-Bot-2014), *In-Vitro* antioxidant activity and Phytochemical Screening of leaves of *Skimmia laureola* of family Rutaceae.
10. Rabia (108-BH-Bot-2014), *In-Vitro* antioxidant activity and Phytochemical Screening of leaves of *Elsholtzia caliata* of family Lamiaceae.
11. Aiman Arooj (142-BH-Bot-2017), Palynological Features of Woody Plants from Aitchison College Lahore.
12. Mobeen Iqbal (156-BH-Bot-2017), Palynotaxonomy of Herbaceous Flora of Aitchison College, Lahore.
13. Bakhtawer Sarwar (129-BH-Bot-2017), Eco-Taxonomic Studies of Plants of Aitchison College, Lahore.
14. Andleeb Istikhar (106-BH-Bot-18), Palynological characterization of Trees of Lahore University of Management Sciences, Lahore.
15. Sana Sarfraz (112-BH-Bot-18), Palynological characterization of Herbaceous Flora of Lahore University of Management Sciences, Lahore.
16. Fatima Rauf (139-BH-Bot-18), Ecotaxonomic Studies on the flora of Lahore University of Management Sciences, Lahore.

17. Sana Zafar (0025-BH-Bot-E-18), Palynomorphic Characterization of Woody Flora of Canal Bank Road, Lahore.
18. Khawaja Ehsan Ghani (136-BH-E-Bot-19), Floristic composition and palynomorphologic assessment of Herbaceous Angiosperms of Dawarian and Ratti in Neelam Valley, Pakistan Administered Kashmir.
19. Hira Iftikhar (0151-BH-E-Bot-19), Phytochemical Analysis and In Vitro Antioxidant Activity of *Euphorbia helioscopia*.

MSc Students

20. Sumbal Naseer (1915-MSc-Bot-2016), A Contribution to the Trichome Morphology of Family Moraceae of Botanic Garden GCU Lahore.
21. Aroosa Shafqat (1907-Bot-MSc-2018), Biochemical Identification and In-Vitro Antioxidant Activity of *Cassia glauca* Inflorescence.
22. Tayyaba Shahzadi (1938-MSc-Bot-2019), Palynomorphic Assessment Of Medicinal Flora of Tehsil Shakargarh District Narowal.
23. Rabia Rizwan (1938-MSc-Bot-2019), Palynomorphic Characterization of Ethnobotanically important Plants of Tehsil Hafizabad.

MPHIL Students

24. Tahira Mubeen (0367-7-2016), Role of different metabolic Inhibitors and Micro minerals on the activity and stability of a novel laccase from *Fomes fomentarius*.
25. Muhammad Atiqer Rehman (0368-MPhil-Bot-17), A Contribution to the study of Pollen Flora of District Kasur (Punjab, Pakistan).
26. Asifa Nazir (0385-MPhil-Bot-2018), Ethnobotanical Study of Wild Plants of Tehsil Sheikhpura, Punjab Pakistan.
27. Ayesha Gull (0384-MPhil-Bot-2018), In vivo and In vitro Anti-inflammatory activity of *Convolvulus scindicus* Burm. Methanolic extract.
28. Khadija Bari (0375-MPHIL-Bot-2019), Ethno-Ecological Assessment of Herbaceous Flora of Lahore District, Punjab.
29. Aimen Zubair (353-MPhil-Bot-19), In-Vitro and In-Vivo Anti-Inflammatory Activities of *Anagallis arvensis* L.
30. Reeha Ramzan (120-MPhil-Bot-20), A Contribution to the Palynomorphic characterization and taxonomic studies of the flora of Tehsil Gojra, Pakistan.

31. Muhammad Muneeb Iqbal (0365-MPhil-Bot-20), Ethno-Floristic Composition of Soon Valley (Salt Range).
32. Maimoona Ghaffar (0119-MPhil(M)-Bot-21), Palynomorphic Assessment of Woody Plants of Tehsil and District Pakpattan.
33. Tayyaba Shahzadi (0375-MPhil-Bot-21), Synthesis and Biological Applications of Silver Nanoparticles from Leaves of *Centella Asiatica*.
34. Kashmala Qayyum (0134-MPhil(M)-Bot-21), Palynomorphic Assessment of Herbaceous Flora of Tehsil and District Pakpattan.

➤ Symposia/Conferences/Trainings Attended

1. **Hands on Training on Patent Writing and Drafting** by Punjab Higher Education Commission Lahore, 12th and 13th September, 2024.
2. **Two Days Training Workshop on Statistical Data Analysis**, 20th and 21st September, 2023, Department of Zoology, GC University Lahore.
3. **8th International and 17th National Conference on “Advances in Plant Sciences in the ERA of Climate Change”**, 26th and 28th October 2022, Pakistan Botanical Society of Pakistan, GC University Lahore.
4. **02 Days Teachers’ Trainings Workshop on inclusive Education and Implementation of the HEC Policy for Students with Disabilities**, 17th and 18th August 2022, GC University Lahore
5. **14th National and 5th International Conference of Botany**, January 15-18, 2016 at University of Karachi, Karachi.
6. **2nd International Conference of Plant Scientists**, February 22-24, 2011 at Department of Botany, GC University Lahore.
7. **2nd National Conference of Biology**, April 22-24, 2004 at Biology Block, GC University Lahore, Pakistan.
8. **The International 1st Biotechnology Conference on “Business Opportunities in Industrial Biotechnology”**, January 17-19, 2006 at Institute of Industrial Biotechnology, GC University Lahore, Pakistan.
9. Workshop of **“Biochemical Engineering and Fermenters”** 19th August, 2006 Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore, Pakistan.

➤ **Award**

1. Certificate from Ministry of Population in Essay writing competition.
2. Cash Prize on **3rd Position** in Slogan and Essay writing competition from Ministry of Population.

➤ **Computer Skills**

1. MS Office 2010
2. GCU Oracle based Software (SIS)
3. English type, Windows, Internet App., Inpage and Project