

CURRICULUM VITAE

Dr. ISHTIAQ AHMAD

Assistant Professor
Department of Botany,
Islamia College (a public sector university), Peshawar, Pakistan

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PERSONAL INFORMATION

Date of Birth:	July 27, 1986	Passport Number:	RY1151152
Nationality:	Pakistani	Email:	ishtiaqmatta@gmail.com
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ACADEMIC QUALIFICATION

Ph.D. (Plant Biodiversity and Conservation)	2017	University of Peshawar, Pakistan 3.8 CGPA (81% Marks)
M. Phil (Botany)	2011	Hazara University Mansehra, Pakistan 4.0 CGPA (88% Marks)
MASTER OF SCIENCE (Botany)	2008	Hazara University Mansehra, Pakistan 3.9 CGPA (85% Marks)
BACHELOR OF SCIENCE (Biology & Chemistry)	2006	University of Malakand, Pakistan 1st Division (60% Marks)
HIGHER SECONDARY SCHOOL CERTIFICATE (Pre-Medical)	2003	SPS College Swat, Pakistan 1st Division (65% Marks)
SECONDARY SCHOOL CERTIFICATE (Science)	2001	APS Matta Swat, Pakistan 1st Division (76% Marks)

AWARDS AND DISTINCTIONS

- **Gold Medalist** M.Sc Botany, Hazara University Mansehra Pakistan, Session 2006-2008
- **3rd Position** 3D-Static model of plant cell; First Science Exhibition Hazara University, 2007
- **Certificate of Completion** Outstanding performance and lasting contribution in Dental investigation of the biological origins and interactions among ethnic groups of Northern Pakistan; California State University Bakersfield, 2007-2009
- **Completion of Special Project** Molecular Phylogenetics of *Inocybe*, Harvard University Herbaria, Harvard University, MA, USA, 2016
- **HEC Scholar** International Research Support Initiative Program; Higher Education Commission of Pakistan, 2015-2016

EXPERIENCE

- Research Associate; Department of Genetics Hazara University Mansehra Pakistan, April 01, 2008 to April 22, 2009
- Research Officer; Herbarium Hazara University, April 23, 2009 to Nov 14, 2010
- Lecturer; Higher Education Department, Government of Khyber Pakhtunkhwa Pakistan, Nov 15, 2010 to August 31, 2018
- Assistant Professor; Department of Botany, Islamia College Peshawar Pakistan, September 1, 2018- till date.

ADMINISTRATIVE POSITIONS

- BS Coordinator; Department of Botany, Government Post Graduate Jahanzeb College, Saidu Sharif, Swat, 2018.
- Focal Person; Quality Enhancement Cell, Government Post Graduate Jahanzeb College, Saidu Sharif, Swat, 2018.

TRAININGS

- Herbarium Management from Center of Plant Conservation, Karachi University, Karachi; September 2008- March 2009
- DNA analysis, Hazara University Mansehra; 2007-2008
- Cultivation of Medicinal Plants and Kitchen Herbs, NARC Islamabad; 2009
- Edible Mushroom Farming, Agriculture Research Station Swat; 2016-2017

COURSES TAUGHT AT GRADUATE LEVEL

- Plant Systematics
- Genetics
- Mycology
- Plant Ecology
- Research Methodology

MEMBERSHIPS

- Pakistan Botanical Society (Life member)
- Sultan Ahmad Mycological Society of Pakistan (Life member)
- Society for Conservation Biology, Pakistan (Life member)
- Biodiversity Conservation Foundation, Pakistan (Life member)

RESEARCH EXPERTIES AND INTEREST

- Molecular Phylogenomics
- Morpho-Anatomical Characterization
- Conservation Biology
- Mushroom Husbandry
- Agronomy of Medicinal and Aromatic Plants

PUBLICATIONS

1. Jabeen, S., Kiran, M., Khan, J., **Ahmad, I.**, Ahmad, H., Sher, H. and Khalid, A.N., 2019. *Amanita ahmadii*, a new species of *Amanita* subgenus *Amanitina* section *Validae* from Pakistan. *MycKeys* 56: 81–99.
2. Sarwar, S., S. Jabeen, **I. Ahmad** B.T.M. Dentinger and A.N. Khalid. 2018. *Boletus himalayensis* (Basidiomycota; Boletales), a new porcini species from Pakistan., *Turkish Journal of Botany*, 42(6) DOI: 10.3906/bot-1711-19
3. **Ahmad, I.**, H. Ahmad, Inamullah and 2018. Effect of Various Growth Parameters on Seed Yield of Iron Weed. *In: Ozturk, M., K.R. Hakeem, M. Ashraf and M.S.A. Ahmad (Eds.) Global Perspectives on Underutilized Crops*. Springer International Publishing AG. DOI 10.1007/978-3-319-77776-4
4. **Ahmad, I.** and H. Ahmad. 2018. Iron Weed (*Vernonia anthelmintica*) as a Renewable Oilseed Crop in Pakistan. *In: Ozturk, M., K.R. Hakeem, M. Ashraf and M.S.A. Ahmad (Eds.) Global Perspectives on Underutilized Crops*. Springer International Publishing AG. DOI 10.1007/978-3-319-77776-4
5. **Ahmad, I.** 2017. Mushrooms of Swat Pakistan - A Study Based upon Molecular and Morphoanatomical Characterization. PhD Thesis. Centre of Plant Biodiversity, University of Peshawar, Peshawar, Pakistan.
6. Jabeen, S., A. Razaq., A. R. K. Niazi., **I. Ahmad.**, T. Grebenc and A. N. Khalid. 2017. *Russula ahmadii*, a new species in section *Ingratae* and its ectomycorrhiza from coniferous forests of Pakistan. *Phytotaxa.*, 321 (3): 241–253
7. Shah, S. H. A., A. Rashid., H. Sher., E. Wadan., **I. Ahmad** and M. Ali. 2017. Estimating the impacts of different fertilizers on the growth and yield of wheat (*Triticum aestivum* L.). *Int. J. Agron. Agri. R.*, 11(1): 17-23
8. Hernández-Restrepo, M., Schumacher, R.K., Wingfield, M.J., **Ahmad, I.**, Cai, L., Duong, T.A., Edwards, J., Gené, J., Groenewald, J.Z., Jabeen, S. and Khalid, A.N. 2016. Fungal Systematics and Evolution: FUSE 2. *Sydowia*, 68: 193-230.
9. Jabeen, S., **Ahmad, I.**, Rashid, A. and Khalid, A., 2016. *Inocybe kohistanensis*, a new species from Swat, Pakistan. *Turkish Journal of Botany*, 40(3): 312-318.
10. Saba, M., **Ahmad, I.** and Khalid, A.N., 2015. New reports of *Inocybe* from pine forests in Pakistan. *Mycotaxon*, 130(3): 671-681.
11. Iqbal, A., **I. Ahmad**, H Ahmad, S Ghafoor, A Razzaq Genetic characterization of Berberis species collected from Kunhar River catchment using morphological and molecular markers. *Int. J. Biosci.* 3(5): 35-42.
12. **Ahmad, I.** 2011. Evaluation of *Vernonia anthelemintica* for Seed Yield under Rainfed Conditions of District Mansehra. M.Phil. Thesis. Department of Botany, Hazara University, Mansehra, Pakistan.
13. Faiz-ul-Haq, H. Ahmad, M. Alam, **I. Ahmad** and Rahatullah. 2010. Species Diversity of Vascular Plants of Nandiar Valley Western Himalaya, Pakistan. *Pak. J. Bot.*, Special Issue (Prof Ali's festschrift): 1-29 **0.75**
14. Rahman I, H. Ahmad., Inamullah., Sirajuddin., **Ishtiaq A.**, Fida M. A., Mohammad I. and Sajidul G. 2009. Evaluation of rapeseed genotypes for yield and oil quality under rainfed conditions of district Mansehra. *African Journal of Biotechnology*. 8 (24): 6844-6849.

15. **Ahmad, I.** 2008. Genetic Analysis of *Brassica* Genotypes Using Randomly Amplified Polymorphic DNA Primers. M.Sc. Thesis. Department of Botany, Hazara University, Mansehra, Pakistan

PRESENTATIONS IN INTL/NATIONAL CONFERENCES AND WORKSOPS

1. Third International Conference on “Empowering Nation through Sciences”. Women University Mardan, KP Pakistan. April 24-25, 2019

Oral Presentations:

- i. **Ishtiaq Ahmad**, Habib Ahmad, Hira Wahab and Abdul Nasir Khalid. 2018. Molecular Phylogenetic Analyses and Morphological Assessment using SEM Technology in Russulaceae (Agaricales) of the Upper Swat Valley of Pakistan
 - ii. Hira Wahab, Siraj Ud-Din, **Ishtiaq Ahmad** and Abdul Nasir Khalid. 2019. DNA Barcoding and Taxonomic Studies of *Diplotomma Rivas-Martinezii* (Lecanorales, Ascomycota), a Lichenicolous Lichen new to Pakistan
2. Workshop on “Identification, cultivation and preservation of edible mushrooms”. University of Science and Technology Bannu KP, Pakistan - 18 June, 2019

Invited speaker/Oral Presentation:

- i. **Ishtiaq Ahmad**. 2019. Preservation and Identification of Mushrooms: A Case Study of *Amanita Flavipes* and *Russula Sichuanensis*.
3. International Conference on “Water Saving and Plant Production Strategies: Constrains and Implications for Sustainable Agriculture”. Department of Botany, Government College University, Faisalabad Pakistan. March 26-28, 2019

Oral Presentation:

- i. **Ishtiaq Ahmad**, Habib Ahmad, Abdul Nasir Khalid and Abdur Rashid. 2018. Phylodiversity of some Gilled Fungi from the Temperate Habitats of Swat Valley, Pakistan
4. Three Days International workshop on “Digitization, Geo referencing and Documentation of Herbaria and Botanical Gardens in Pakistan - a step forward for formulation of World Flora, Target No. 1 as per Global Strategy for Plant Conservation (GSPC)”. Institute of Plant Sciences, University of Sindh Pakistan; December 1-3, 2018

Oral Presentation:

- i. **Ishtiaq Ahmad**, Habib Ahmad, Abdul Nasir Khalid and Abdur Rashid. 2019. Molecular Phylogenetics coupled with morphological assessment of some mushroom forming Fungi of the temperate habitats of Swat valley, Pakistan
5. National Conference on “Threats to biodiversity and ecosystems: efforts to resolve current and future challenges”. University of Science and Technology Bannu KP, Pakistan - November 26-28, 2018

Oral Presentation:

- i. **Ishtiaq Ahmad**, Habib Ahmad, Abdur Rashid, Abdul Nasir Khalid. 2018. Mushrooms of Swat; a Phylogenetic Perspective of Some Noteworthy Taxa
6. 7th International and 16th National Conference on Plant Resources: Current Trends, Challenges and Solutions. Under the Umbrella of Pakistan Botanical Society, Islamia College Peshawar, Pakistan and University of Peshawar, Pakistan - March 23-26, 2018

Oral Presentations:

- i. **Ishtiaq Ahmad**, Siraj Ahmad, Hazrat Sher, Khan Muhammad, Syed Sharifullah, Taj Muhammad, Numan Fazal. 2018. Evaluation of Yield Performance of Oyster Mushrooms (*Pleurotus Ostreatus* and *Pleurotus Sapidus*) on Different Substrates in Swat, Pakistan
 - ii. **Ishtiaq Ahmad**, Abdur Rashid, Habib Ahmad, Siraj Ahmad, Abdul Nasir Khalid. 2018. Mushrooms of Swat, a Phylogenetic Perspective of Some New Records
 - iii. Numan Fazal, **Ishtiaq Ahmad**, Inam Ullah, Noreen Latief. 2018. In Silico Analysis to Reveal Inhibitory Potential of *Berberis Lycium* Alkaloids Berberine and 7-Hydroxy-4-Methylcoumarin Against Rheumatoid Arthritis
 - iv. Siraj Ahmad, **Ishtiaq Ahmad**, Murad Ali, Numan Fazal, Lubna, Maria Hussain. 2018. Some Major Threats to Vegetation of District Shangla Northern Area of Pakistan
 - v. Zulfiqar, Shujaul Mulk Khan, Habib Ahmad, Abdul Majid, **Ishtiaq Ahmad**. 2018. Conservation Status of Japanese Oak (*quercus glauca* Thunb.) from Himalayan Region of Pakistan and Kashmir
 - vi. Sana Rasheed, Shujaul Mulk Khan, **Ishtiaq Ahmad**. 2018. Ecological Assessment of Plant Communities and Multivariate Approach to Indicator Species of Desert Around Water Bodies (Toba): A Case Study of Cholistan Desert Bahawalpur, Pakistan
 - vii. Siraj Ahmad, Muhammad Ilyas, Zia Ul Haq, **Ishtiaq Ahmad**. 2018. Phytosociology of Girband Hills, UC Kalakalay Kabal Swat, Khyber Pakhtunkhwa, Pakistan.
 - viii. Israr Ahmad, Habib Ahmad, Inamullah, Sami Ullah Khan, Abdul Razzaq, Muhammad Islam, **Ishtiaq Ahmad**. 2018. Analysis of Population Structure and Genetic Diversity in Bread Wheat Genotypes
 - ix. Siraj Ahmad, Muhammad Ilyas, Murad Khan, **Ishtiaq Ahmad**. 2018. Folk Medicine of Tehsil Kabal, District Swat
 - x. Siraj Ahmad, **Ishtiaq Ahmad**, Numan Fazal, Noor Rahman, Tariq Alam, Nasar Ali. 2018. Honey Bee Flora of Miandam Valley Swat
7. One day workshop on “Expansion of Non-Timber Forest Products for livelihood improvement of local communities in Khyber Pakhtunkhwa” Directorate of Non-Timber Forest Products, Forest Department, Khyber Pakhtunkhwa, Pakistan.

Oral Presentation:

- i. **Ishtiaq Ahmad**. 2018. Biodiversity of Mushrooms of Swat Khyber Pakhtunkhwa
8. International conference on Conventional and Modern Approaches in Plant Sciences (CMAPS-Nov 27-29, 2017) Department of Botany, University of the Punjab, Lahore-54590 Pakistan.

Oral Presentation:

- i. **Ishtiaq Ahmad**, Abdur Rashid and Abdul Nasir Khalid. 2017. Morphological assessment and phylogenetic analyses in some ecologically important mushrooms found in Coniferous Forests of Swat Valley
9. 7th HEC National conference on “Biodiversity Conservation, Livelihood and Sustainable Development” (July 10-12, 2017) Centre of Plant Biodiversity, University of Peshawar.

Oral Presentation:

- i. **Ishtiaq Ahmad**, Abdur Rashid, Khalid Khan and Abdul Nasir Khalid. 2017. Phylogenetic re-assessment of *Leucocoprinus cretaceous* (Agaricaceae) from Temperate regions of Swat Valley.
10. 3rd International Symposium on “Conservation Issues of Edible Wild Resources of Hindukhush and Himalaya”. (Jul 21-24, 2017) Department of Botany; Islamia College Peshawar and Department of Botany University of Peshawar, Pakistan.
- Oral Presentations:*
- i. **Ishtiaq Ahmad**, Samina Sarwar, Abdur Rashid and Abdul Nasir Khalid. 2017. Molecular phylogenetic investigation of some ecologically important ectomycorrhizal mushrooms found in dry temperate forests of Swat Valley.
 - ii. Samina Sarwar, **Ishtiaq Ahmad**, Sana Jabeen, Farah Ahmad and Abdul Nasir Khalid. 2017. Mycoflora deterioration and climate change in Himalayan Moist Temperate Forests of Pakistan: causes and recommendations.
11. Role of Botanical Gardens in Biodiversity Conservation and Sustainable Management (June 14-16, 2013), Centre of Plant Biodiversity, University of Peshawar.
- Oral Presentation:*
- i. **Ishtiaq Ahmad**, Habib Ahmad, Imtiaz Ahmad Khan and Sahib Gul Afridi. 2013. Genetic Evaluation of *Brassica* Genotypes using Randomly Amplified Polymorphic DNA Primers.
12. 1st International Symposium on “The Himalays of Pakistan” held at Hazara University, Mansehra, Pakistan (27-30 November 2014).
- Oral Presentation:*
- i. **Ishtiaq Ahmad** and Habib Ahmad. 2014. Iron Weed (*Vernonia anthelmintica*) as a Renewable Oil Seed Crop in Pakistan
13. 4th International and 13th National conference of Botany under the Umbrella of Pakistan Botanical Society (27-30 August 2014) held at Shaheed Benazir Bhutto University, Sheringal, Dir Upper, Khyber Pakhtunkhwa.
- Oral Presentation:*
- i. **Ishtiaq Ahmad**, Abdur Rashid, Abdul Rahman Niazi and Abdul Nasir Khalid. 2014. New Records of Some Noteworthy Mushrooms from Swat.

THESIS SUPERVISED

BS STUDENTS

1. Saeedullah, Muhammad Luqman, Afzal Shah and Shahzad Khan. 2017. Diversity of Higher Vascular Plants and its economic values for the folks of Yakhtangay Valley, District Shangla, Khyber Pakhtunkhwa, Pakistan. Department of Botany, Government Post Graduate Jahanzeb College, Saidu Sharif, Swat.
2. Khan Muhammad, Syed Sharifullah and Taj Muhammad. 2017. Evaluation of yield performance of oyster mushrooms (*Pleurotus Ostreatus* and *Pleurotus Sapidus*) on different substrates in Swat, Pakistan. Department of Botany, Government Post Graduate Jahanzeb, Saidu Sharif, College Swat.

3. Rahmat Ali and Inamullah. 2017. Wealth of Medicinal and Aromatic Plants of Pirkhana Valley, District Shangla and its Conservational Strategies. Department of Botany, Government Post Graduate Jahanzeb College, Saidu Sharif, Swat.
4. Muhammad Iqbal, Sarang Zeb, Zahir Khan and Sher Ali Khan. 2017. Ethnobotanical Survey of Wild Plants of Malam Jabba Valley District Swat. Department of Botany, Government Post Graduate Jahanzeb College, Saidu Sharif, Swat.
5. Yousaf Ali, Salman Khan and Abbas Khan. 2018. Phylogenetic studies in selected members of the ectomycorrhizal genus *Russula* (gilled fungi) from coniferous forests of Swat Valley. Department of Botany, Government Post Graduate Jahanzeb College, Saidu Sharif, Swat.
6. Sheema Sardar and Sobia Suileman. 2018. Phylogenetic studies in selected members of the ectomycorrhizal genus *Boletus* (pored mushrooms) from Hindu Kush ranges of Pakistan. Department of Botany, Government Post Graduate Jahanzeb College, Saidu Sharif, Swat.
7. Faiza Bibi, Irum Naz, Zenab and Umaima Zeb. 2018. Phylogenetic studies in selected members of the ectomycorrhizal genus *Inocybe* (gilled mushrooms) from Temperate regions of Pakistan. Department of Botany, Government Post Graduate Jahanzeb College, Saidu Sharif, Swat.
8. Uroosa Tariq. 2019. Antimicrobial activities of the methanol extracted samples of the stem bark of *Albizia lebback* (L.) Benth. Department of Botany, Islamia College University Peshawar.

THESIS UNDER SUPERVISION

Ph.D. STUDENTS

1. Majid Shah. 2020. Morphological and Phylogenomic studies in the Mushroom forming fungi of Charsadda, KP Pakistan. Department of Botany, Islamia College University Peshawar.

M.Phil. STUDENTS

1. Saeedullah 2019. Diversity of gilled and pored mushrooms found in District Shangla, KP Pakistan. Department of Botany, Islamia College University Peshawar.
2. Shahid Ali Khan. 2019. Diversity of gilled and pored mushrooms found in Beha Valley, KP Pakistan. Department of Botany, Islamia College University Peshawar.

BS STUDENTS

3. Inamullah. 2019. Taxonomic investigation of the Higher Vascular Plants along Ring Road Peshawar, KP Pakistan. Department of Botany, Islamia College University Peshawar.
4. Khubab Ali Shah. 2019. Morphological assessment of some Boletes of northern Pakistan. Department of Botany, Islamia College University Peshawar.

CO-CURRICULAR HISTORY

- Team member Hockey:
 - Abdali Public School Matta (1996-2001)
 - SPS College Swat (2001-2003)
 - Government Degree College Matta (2004-2006)
- Press secretary Matta Scouts Open Group Matta (2004-2006)

REFERENCE

1. **Dr. Donald H. Pfister**, Asa Gray Professor of Systematic Botany and Curator, Farlow Library and Herbarium, The Harvard University Herbaria, 22 Divinity Avenue, Cambridge, Massachusetts 02138 USA Tel. 617-495-2365 Fax. 617-495-9484 Email: dpfister@oeb.harvard.edu
2. **Professor Dr. Abdul Nasir Khalid**, Fungal Biology and Systematics Research Laboratory, Department of Botany, University of the Punjab, Lahore, Pakistan
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