

Dr. Arooj Naseer

Assistant Professor
Department of Botany
University of the Punjab, Lahore.54590-Pakistan

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Academic Profile:

University of the Punjab, Lahore

PhD (Botany)

University of the Punjab, Lahore

M.Sc (2 Gold Medals)

University of the Punjab, Lahore

B.Sc (Roll of Honour)

Queen Mary College, Lahore

F.Sc

B.S.I.E Gujranwala

Matriculation (1st Position)

Administrative Responsibilities

- Examination Incharge (2008-2016)
- Focal Person for Annual report
- Incharge of Tour management committee
- Coordinated in purchase of library books (Botany, 2012-14)
- Coordinated auction committee
- Incharge stock checking (Botany Lab)
- Incharge attendance register of non-teaching staff

Working Experience:

- 14 Years teaching experience
- Working as Assistant Professor in Botany in Department of Botany since 2019 to present.

- Worked as Assistant Professor in Botany in Center for Undergraduate Studies, University of the Punjab, Lahore from 2018 to 2019.
- Worked as a Lecturer in Center for Undergraduate Studies, University of the Punjab, Lahore from 2007 to 2018.
- Worked as Researcher at Institute of Food and Agricultural Sciences, **University of Florida's (UF/IFAS)**, USA in 2016.

Research Experience:

- **A research experience** in Smith lab, Institute of Food and Agricultural Sciences, **University of Florida**, under supervision of Mathew E Smith, Rossane Healy. For more detail, see <http://plantpath.ifas.ufl.edu/faculty/matthew-e-smith/lab-members/lab-alumni/>
- **Global Systematics, Ecology, and Biogeography of Ectomycorrhizal Fungi:** extensively worked on the ecology of plant-symbiotic ectomycorrhizal Fungi including many groups especially *Amanita*, *Boletes*, *Cortinarius*, *Craterellus*, *Descolea*, *Gyroporus*, *Hortiboletus*, *Hygrophorus*, *Inocybe*, *Lactarius*, *Russula*, *Scleroderma*.
- **Symbiotic ectomycorrhizal fungi– macroecology and evolutionary history from community to landscape scale:** documenting the diversity, distribution, and evolutionary history of ECM fungi in
- **Conservation of Oaks:** To isolate ectomycorrhizal fungi and analyzed phylogenetically. Further plan is to introduce these ectomycorrhizal fungi into forests to conserve these forests.
- **Exploration of preserved forests of Kurrum Agency:** Mycologically rich but unexplored regions especially Parachinar, Hangu, Zeeran.

Research Projects:

1. **Taxonomic study of some mushrooms associated with Oaks forests**

- from **District Dir, KPK, Pakistan** during 2014-2015 funded by University of the Punjab.
2. **Phylogenetic characterization of fugal fruiting bodies in Shawar Valley, KPK, Pakistan** during 2017-2018 funded by University of the Punjab.
 3. **Phylogeny of ectomycorrhizal fungi from oaks forests of Parachinar, Kurram District, Pakistan** during 2019-2020 funded by University of the Punjab.
 4. **Molecular and phylogeny characterization of some Lepiotaceous fungi from selected areas of Pakistan** during 2019-2020 funded by University of the Punjab.

Seminars/Workshops/Conferences

Organized

1. Two Days Interactive Training Workshop on New Trends in Protein Analysis 24-25 April 2019 at Centre for Undergraduate Studies, University of the Punjab, Lahore.
2. Member of various **organizing committees** (Reception committee, Printing/Press committee, Accommodation/Transportation committee, Tour Committee, Technical Session-VI) in International conference “Conventional and Modern Approaches in Plant Sciences” on 28-29 November 2017 at Department of Botany, University of the Punjab, Lahore.
3. Conducted Workshop on “**Use Of Molecular Techniques For Naming Fungi**” organized by Department of Botany, University of the Punjab, Lahore on 27 November 2017.

List of Recently participated conferences

1. Participated in International workshop entitled as “ **Virtual Mushrooms with the Museum** by Florida Academic Lichen and Fungi Enthusiasts League and Florida museum of natural history on August 16, 2020.
2. Served as a poster session judge at the recent MSA: Mycology from the Cloud virtual meeting organized by Mycological society of America.
3. Poster presentation entitled as **A new and unusual species *Suillelus himalayensis* from Himalayan oak forest Of Pakistan** in The Mycological Society of America's First Virtual Meeting **MSA 2020: Mycology from the Cloud** organized by Mycological society of America on July 21-22, 2020.
4. Poster presentation entitled ***Amanita pseudovaginata* from Pakistan** as Botany 2020 – Virtual organized by Botanical society of America on July 27-31 2020.
5. Poster Presentation entitled as First record of *Russula delica* (Basidiomycota, Russulales) from Himalayan forests of Azad Jammu and Kashmir at **International Conference on Smart Plantation organized by Department of Botany, Lahore College for women university, Lahore on 2-4 March, 2020.**
6. Poster Presentation entitled as **First record of *Suillelus subamygdalinus* from Pakistan** in International Conference Punjab university (ICPU2019) Recent Innovations in Molecular Sciences November 06-08, 2019.
7. Poster Presentation entitled as ***Russula baghensis* ((Basidiomycota, Russulales), a new species from Himalayan moist temperate forests of Azad Jammu and Kashmir Pakistan** in International Conference Punjab university (ICPU2019) Recent Innovations in Molecular Sciences November 06-08, 2019.

8. Poster Presentation entitled as **Importance of ectomycorrhizal association in conservation of Himalayan Oaks** on International conference BOTANY organized by Botanical society of America on 27-31 July, 2019 in Tucson, Arizona.
9. Training workshop entitled as ‘Broadening botanical pathways in teaching’ by **Krakos Kyra, Uno Gordon & Sundberg Marshall** on 28th July, 2019.
10. International workshop entitled as ‘**How to navigate in tree space: learning to generate clade names and computable clade definitions (phyloreferences) for the Tree of Life** on 28th July, 2019. in San Ignacio/Starr Pass Tucson conducted by **Nico Cellinese, Head of Cellinese Lab, and Phyrefenernce Organization.**
11. A Special Post Botany2019 Symposium Sponsored by integrated Digitized biocollections **Early-career innovators in herbarium-enabled research and future-proofing for the next waves of inventiveness** on Thursday, August 1, 2019 7:30 am - 1:00 pm in Starr Pars Arizona.
12. Oral presentation entitled as ‘‘Molecular and Phylogenetic Characterization of family Inocybaceae: Its ectomycorrhizal role in conservation of Dry and Moist Temperate Forests of Pakistan’’ on 2nd international conference on water saving and plant production strategies: Constraints and Implications for sustainable agriculture (WAPPS-2019) On March 26-28, 2019 in Department of Botany, Government College, University Faisalabad, Pakistan
13. Co Chair **Technical Session IIa Agriculture and Sustainability** 03:10 pm Quaid-e-Azam Main Auditorium on 2nd international conference on water saving and plant production strategies: Constraints and Implications for sustainable agriculture (WAPPS-2019) On March 26-28, 2019 in

Department of Botany, Government College University Faisalabad, Pakistan.

14. Key note speaker presentation as entitled as '***Himalayan Oak--An Excellent Host for ectomycorrhizal association***' on 2nd International Conference of Plant Sciences (ICPS-2018) in Government college University, Lahore December 5-8 2018.
15. Oral Presentation entitled as '***Melanostilospora ari (Basidiomycota) a new report of Smut Fungi for Pakistan***' on 2nd International Conference of Plant Sciences (ICPS-2018) in Governemnet college university, Lahore December 5-8 2018.
16. International conference On "**Hereditary diseases; Molecular diagnosis and prevention Strategies**" on 29th March, 2018, organized by Department of Molecular Biology, Virtual University of Pakistan, Lahore on 29 March, 2018.
17. Oral Presentation entitled as **ICBS-OB-01-2018: Molecular and phylogenetic characterization of ectomycorrhiza of family Sclerodermataceae from dry temperate forests of Pakistan** Arooj Naseer, Nousheen Yousaf & Abdul Nasir Khalid On 3rd International Conference on Bio-Sciences-2018, May, 9-10, 2018 Venue: Bukhari Auditorium, GC University, Lahore, Pakistan.
18. Poster Presentation entitled as Abstarct ID 296: **Phylogenetic Characterization of *Amanita*: an ectomycorrhizal genus from dry moist temperate forests of Pakistan** by Arooj NASEER & Dr. Abdul Nasir Khalid In Botany 2018, 21-25 July 2018 in Rochester, Mimesota.
19. Oral Presentation entitled as **Conservation and Sustainability of Himalayan Oaks Forests** Arooj Naseer & Abdul Nasir Khalid in 2nd International Conservation of Medicinal and Aromatic plants for Improving

the Livelihood of Mountain communities through Industrial Linkages” organized by Centre for Plant Sciences & Biodiversity (CPS & B), University of Swat in Collaboration with Higher Education Commission (HEC), from September,3-5, 2018.

20. ***Craterellus cinnerus*, a new record from Pakistan** in Three days International Conference on “Plants: Their Chemical and Biological Applications for Today and Tomorrow”. April 12-14, 2017. Department of Botany University of Gujrat, Pakistan.
21. ***Scleroderma pakistanensis (Boletales, Sclerodermataceae)*, a new species of Earth Balls from Pakistan.** 6th International and 15th National Conference on ‘Dynamic Trends in Plant Sciences: Fostering Environment, 9-11th May 2017, Quetta, Pakistan,
22. **Ectomycorrhizal diversity in stands of *Quercus dilata* from upper Dir, KPK, Pakistan,** Poster ID 448 Arooj Naseer, Abdul Nasir Khalid & Matthew E. Smith’ 9th International conference on Mycorrhiza, 30th July- 4th August, 2017, Prague, Czech Republic.
23. **Ectomycorrhizal diversity and community structure in stands of *Quercus baloot* in the dry temperate forests of Kalam, Pakistan,** Poster ID 228, Arooj Naseer, Abdul Nasir Khalid & Matthew E. Smith’ 9th International conference on Mycorrhiza, 30th July- 4th August, 2017, Prague, Czech Republic.
24. Poster presentation entitle as **Molecular and phylogenetic characterization of Family Clavulinaceae from Temperate Forests of Pakistan.** Arooj Naseer and Abdul Nasir Khalid in Conventional and Modern Approaches in Plant Sciences on 28-29 November 2017 at Department of Botany, University of the Punjab, Lahore.

25. **Diversity of macromycetes associated with himalaya-hindu Oaks in Pakistan and Molecular and Phylogenetic Characterization of Ectomycorrhiza of family Thelephoraceae from Dry Temperate Forests of Pakistan.** By Abdul Nasir Khalid & Arooj Naseer in Asian mycological congress, Oct 10th-13th, 2017, Hochiminh City.

List of Publications

Impact Factor (55.44)

(Published)

24. **Arooj Naseer**, Naveed Davoodian, Munazza Kiran & Abdul Nasir Khalid (2021). *Butyriboletus parachinarensis* from Pakistan. *Persoonia* by Crous et al, 46, in Fungal Planet description sheets: 1182–1283: 313 – 528 (**Impact Factor 11.051**)

<https://doi.org/10.3767/persoonia.2021.46.11>

23. **Arooj Nasser**, Samina Sarwar, Muhammad Usman & Abdul Nasir Khalid. *Suillus quercinus* (Suillaceae), a new bolete species from Pakistani forests. FUSE 7. (**Impact Factor 0.957**)

22. Shah Hussain, **Arooj Naseer**, Ishtiaq Ahmad, Najam-Ul-Sehar Afshan, Abdul Nasir Khalid, Sultan Mahammad. *Melanustilospora ari* (Basidiomycota) A new report of smut fungi for Pakistan. FUSE 7. (**Impact Factor 0.957**)

21. Hyppolite L. Aignon, **Arooj Naseer**, Azize A. Boukary, Nourou S. Yorou (2021). Inocybaceae and affiliated taxa from West Africa. Moroccan Journal of Agricultural Sciences.2 (1): 9-13. (**Impact factor: 2.525**)

20. Hyppolite L. Aignon, Sana Jabeen, **Arooj Naseer**, Nourou S. Yorou, Martin

Ryberg. (2021). Three new species of *Inosperma* (Agaricomycetes, Inobaceae). MycoKeys 77: 97–116. **(Impact factor: 2.984)**

doi: 10.3897/mycokeys.77.60084

19. Hyppolite L. Aignon, **Arooj Naseer**, P. Brandon Matheny, Nourou S. Yorou, Martin Ryberg. (2021). *Mallocybe africana* (Inocybaceae), the first species of *Mallocybe* described from Africa. Phytotaxa 478 (1): 049–060 **(Impact Factor 1.171)**

<https://doi.org/10.11646/phytotaxa.478.1.3>

18. Sana Jabeen, **Arooj Naseer**, Abdul Nasir Khalid. (2020). *Russula rubricolor* sp. nov. from Himalayan forests of Pakistan. Mycotaxon, 135 (4): 763–774 **(Impact Factor 0.538)**

<https://doi.org/10.5248/135.763>

17. **Arooj Naseer**, Isaac Garrido-Benavent, Junaid Khan, Josep Ballarà & Rafael Mahiques & Abdul Nasir Khalid. *Cortinarius pakistanicus* and *C. pseudotorvus*: two new species in oak forests in the Pakistan Himalayas. Mycokeys 74: 91–108. **(Impact Factor 2.525)**

<https://doi.org/10.3897/mycokeys.74.49734>

16. **Arooj Naseer**. Book review ‘Lichen Study Guide for Oklahoma and Surrounding States’ by Sheila A. Strawn. 2017. ISBN: 978-1-889878-55-3. Flexibound US\$25; 80 pp. Botanical Research Institute of Texas Press, Fort Worth, TX published in Plant Science Bulletin. (page 162). **(Impact Factor 3.407)**

<https://cms.botany.org/file.php?file=SiteAssets/publications/psb/issues/PSB-2020-66-2.pdf>

15. Abdul Nasir Khalid & **Arooj Naseer**. *Amanita pseudovaginata* from Pakistan. World Journal of Biology and Biotechnology, 5(3), 19-21 (**Impact Factor 2.36**)

14. **Arooj Naseer**, Seemab Asghar, Rubab Khurshid, Abdul Rehman Niazi & Abdul Nasir Khalid (2019). The Genus *Otidea* (Pezizales, Pyronemataceae) from Pakistan. Sylwan, 163 (10) 145–155 (**Impact Factor 0.691**)

http://sylwan.ibles.org/syl/journals/published/1570158488_HBy83.pdf

13. Muhammd Ishaq, **Arooj Naseer**, Muhammad Fiaz & Abdul Nasir Khalid (2019). *Amanita subjunquillea* (Amanitaceae), a lethal mushroom and its ectomycorrhizal associate, newly reported from oak forest of Buner, Pakistan. Mycotaxon, 134(3), 413–423. <https://doi.org/10.5248/134.413> (**Impact Factor 0.815**)

<https://doi.org/10.5248/134.413>

12. **Arooj Naseer**, Samia Ghani, Abdul Rehman Naizi & Abdul Nasir Khalid (2019). First record of *Inocybe caroticolor* (Inocybaceae) from oak forests of Pakistan. Mycotaxon, 134(2), 241–251. <https://doi.org/10.5248/134.241> (**Impact Factor 0.815**)

<https://doi.org/10.5248/134.241>

11. **Arooj Naseer**, Abdul Nasir Khalid, Rosanne Healy & Matthew E. Smith. (2019). Two New Species Of *Hygrophorus* From Temperate Himalayan Oak Forests Of Pakistan. Mycokeys 56, 33–47 (**Impact Factor 3.62**)

<http://10.3897/mycokeys.56.30280>

10. **Arooj Naseer**, Samina Sarwar, Abdul Nasir Khalid, Rosanne Healy & Matthew E. Smith (2019). *Hortiboletus kohistanensis* (Boletaceae), a new bolete species from temperate and subalpine oak forests of Pakistan. *Phytotaxa* 388 (3): 239–246. **(Impact Factor 1.185)**

<https://doi.org/10.11646/phytotaxa.388.3.3>

9. Naveed Davoodian, Sarah E. Bergemann, Kentaro Hosaka, Olivier Raspé, Neale L. Bougher, Nigel A. Fechner, Terry W. Henkel, Matteo Gelardi, Kasem Soyong, **Arooj Naseer**, Beatriz Ortiz-Santana, Timothy J. Baroni, Eiji Nagasawa, Matthew E. Smith & Roy E. Halling (2018): A global view of *Gyroporus*: molecular phylogenetics, diversity patterns, and new species, *Mycologia*, 110 (5) 985–995 **(Impact Factor 2.866)**

<https://doi.org/10.1080/00275514.2018.1511339>

8. **Arooj Naseer** & Abdul Nasir Khalid (2018). A New Record of Genus *Craterellus*, Edible Basidiomycotous Fungus from Pakistan. *Saudi Journal of Medical and Pharmaceutical Sciences*, 656-659. **(Impact Factor 1.21)**

<https://doi10.21276/sjmps.2018.4.6.2>

7. Munazza Kiran, Junaid Khan, **Arooj Naseer**, Hassan Sher & Abdul Nasir Khalid. (2017). *Amanita pallidorosea* in Pakistan and its ectomycorrhizal association with *Quercus oblongata*. *Mycotaxon*, 132(4): 799–811

(Impact Factor 0.815)

<https://doi.org/10.5248/132.799>

6. Junaid Khan, Hassan Sher, **Arooj Naseer**, Abdul Nasir Khalid (2017).

Descolea quercina (Basidiomycota, Bolbitaceae), a new species from moist temperate forests in Pakistan. *Mycology*, 27: 65-76. (**Impact Factor 3.269**)

<https://doi.org/10.3897/mycokeys.27.14730>

5. **Arooj Naseer**, Abdul Nasir Khalid & Abdul Rehman Niazi (2017). *Phylloporus brunneiceps* from Pakistan. *Mycotaxon*, 132: 685–693. (**Impact Factor 0.815**)

<https://doi.org/10.5248/132.685>

4. **Arooj Naseer**, Abdul Nasir Khalid, Matthew E Smith. (2017). A new species of *Inocybe* (*Agaricomycetes*, *Inocybaceae*) in the *Inosperma* clade from Pakistan, *Mycotaxon*, 132: 909–918 (**Impact Factor 0.815**)

<https://doi.org/10.5248/132.909>

3. Amara Dar, Umer Shafique, Jamil Anwar, Waheed-uz-Zaman, **Arooj Naseer** (2016). A simple spot test Quantification method to determine formaldehyde in aqueous samples. 2016. *Journal of Saudi Chemical Society*, 20, 352–356. (**Impact Factor 5.66**)

<http://dx.doi.org/10.1016/j.jscs.2012.12.002>

2. Umer Shafique, Jamil Anwar, Munawar Ali Munawar, Waheed-uz Zaman, Rabia Rehman, Amara Dar, Muhammad Salman, Maria Saleem, Naeema Shahid, Mehwish Akram, **Arooj Naseer**, Nadia Jamil. (2016). Chemistry of ice: Migration of ions and gases by directional freezing of water. *Arabian Journal of Chemistry*, 9, 47–53. (**Impact Factor 2.887**)

<http://doi.org/10.1016/j.arabjc.2011.02.019>

1. **Arooj Naseer**. (2011). Book review: ‘Plants in Mesozoic Time: Morphological Innovations, Phylogeny, Ecosystems. *Plant Science Bulletin*, 57 (4), 171–172. (**Impact Factor 3.407**)

Reviewer Of Book/Journal

1. Review books for **Plant Science Bulletin** by Botanical Society of America
2. ORCID organization
3. Mycokeys
4. Mycotaxon
5. World Journal of Biology and Biotechnology
6. Biodiversity and Conservation

Achievements

Taxa described New to Science

No.	Taxon	Mycobank No.	Journal Name
1	<i>Cortinarius pakistanicus</i>	MB 833818	Mycokeys (2020)
2	<i>Cortinarius pseudotorvus</i>	MB 833817	Mycokeys (2020)
3	<i>Cyanoboletus macroporatus</i>	MB 837538	
4	<i>Descolea quercina</i>	MB 820545	Mycokeys (2016)
5	<i>Entoloma pakistanicum</i>	MB 837771	Nova Hedwigia (2021)
6	<i>Hortiboletus kohistanensis</i>	MB 824504	Phytotaxa (2019)
7	<i>Hygrophorus alboflavescens</i>	MB 828146	Mycokeys (2019)
8	<i>Hygrophorus scabrellus</i>	MB 828147	Mycokeys (2019)
9	<i>Inocybe quercicola</i>	MB838386	Nova Hedwigia (2021)
10	<i>Inocybe shawarensis</i>	MB 820130	Mycotaxon (2016)
11	<i>Russula rubricolor</i>	MB 828578	Mycotaxon (2020)
11	<i>Scleroderma aureabrunneises</i>	MB 827679	MycoKeys (2021)

12	<i>Scleroderma quercina</i>	MB 827681	MycoKeys (2021)
13	<i>Scleroderma shawarensis</i>	MB 827683	MycoKeys (2021)
14	<i>Suillus quercinus</i>	MB 835423	FUSE (2021)
15	<i>Suillellus pakistanicus</i>	MB 839322	
16	<i>Butyriboletus parachinarensis</i>	MB 839366	Persoonia (2021)
17	<i>Inosperma shawarensis</i> (Naseer & Khalid) Aïgnon & Naseer, comb. nov.	MB 836296	MycoKeys (2021)