Amara Noor Hussain

PROFILE

I am extremely motivated to constantly develop my skills and grow professionally. I am confident in my ability to come up with interesting ideas and to work well in a team.

EDUCATION

PhD in Plant Sciences: November 2019– January 2023 (University of Molise, Italy), (Karel De Grote Hoboken Antwerp, Belgium).

Thesis Title: Contribution to the taxonomy of the genus *Amaranthus:* seed observations and characterization of seed oil.

M. Phil in Plant Sciences: (Aug2015 – Aug 2017) Plant Systematics and Biodiversity Lab Quaid-e-Azam university Islamabad, Pakistan).

Thesis Title: Diversity of Pollen and Foliar Anatomy in Selected Species of Amaranthaceae.

BS. (Hons) Botany: (2011-2015) Lahore College for Women university Lahore, Pakistan.

EDUCATION SKILLS

With diverse organizationalexperience in lab surveillance, research supervision, my core interests are:

- Accelerated solvent extraction (ASE)
- Gas chromatography with flame ionization (GC-FID)
- Scanning electron microscopy (SEM)
- Light microscopy (LM)
- Oil Extraction
- Squalene Extraction
- Microbiology
- Morphology
- Palynology
- Ethnobotany
- Plant Anatomy
- Taxonomy

WORK EXPERIENCE

- Internship in Karel de Grote Antwerp, Belgium GC-FID and Accelerated solvent extraction (ASE), (Jan 2022-June 2022)
- Training of high-risk workers (Training and consulting S.C.S), University of Molise, Italy (30 Sep-06 Oct 2022).

- Theoretical and practical course of Microscopy applied to biological sciences (20-23 June 2022)
- Work for Scanning electron microscopy in International Islamic university, Islamabad, Pakistan (September-October 2022)
- Work for Scanning electron microscopy in Peshawar university, Peshawar, Pakistan (November- December 2022)
- Member of COST ACTION project 18101 Sourdomics.
- Member of COST ACTION project 21149 ACRYRED.
- Member of COST ACTION project 21108 European network of skin engineering and modeling (NETSKINMODELS)
- Member of COST ACTION project CA18113 Understanding and exploiting the impacts of low pH on micro-organisms (EuroMicropH)
- Work as a student in Katoen Natie, Kallo, Antwerp, Belgium (2022)
- 15 days internship into Capracotta Italy for collection and scanning of the plants of (Giardino della flora Appenninica) Date:(12-25August 2020)
- Italian Language Course A2 Level (March-June2021)

Recent (Internships, Conferences, Symposium)

- Ph.D. Expo Unimol, Campobasso, Italy (Dec 19, 2022)
- 18th International Conference on Renewable resources and Biorefineries (1-3 June 2022)
- Fourth International Conference on Biosciences ICBS - 2021 (June 15, 2021)
- "#UK Plant Sci Presents careers webinar withSarah Blackford" (Jan 12, 2021)
- 30th Western Photosynthesis Conference On (January 2nd, 2021/ January 9th, 2021)
- GA symposium Young Researchers Workshop(YRW) on (7 November 2020)
- Webinar Nanoscopy Meets Lifetime – Introducing the new STELLARIS8 τ-STED (9 DEC 2020)
- Webinar Adding Dimensions to MultiplexMolecular Imaging (16 Dec 2020)
- Lavender phytochemical, pharmacological &Clinical evidence (20 November 2020)
- Adding Dimensions to Multiplex MolecularImaging (Dec 16, 2020)

PUBLICATIONS

Hussain, A. N., Geuens, J., Vermoesen, A., Munir, M., Iamonico, D., Marzio, P. D., & Fortini, P. (2023). Characterization of Seed Oil from Six In Situ Collected Wild Amaranthus Species. *Diversity*, *15*(2), 237. https://doi.org/10.3390/d15020237.

Iamonico, D., Hussain, A. N., Sindhu, A., Kumar, S. A., Shaheen, S., Munir, M., & Fortini, P. (2023). Trying to Understand the Complicated Taxonomy in Amaranthus (Amaranthaceae): Insights on Seeds Micromorphology. *Plants*, *12*(5), 987. https://doi.org/10.3390/plants12050987.

Iamonico, D., Fortini, P., & Hussain, A. N., Gabriele, G. (2023) *Amaranthaus emerginatus* s.lat. (Amaranthaceae) in Italy (Natural History Sciences, under review).

Iamonico, D., Fortini, P., & Hussain, A. N. (2022). Novelties and clarifications about the occurrence of *Amaranthus hypochondriacus* (Amaranthaceae) in some European countries with notes on climatic features. *Hacquetia*, *21*(1), 211-222. https://doi.org/10.2478/hacq-2021-0028.

Ali sha & Hussain, A. N. (2022). Evaluating Physiological and Biochemical Responses of Cotton (*Gossypium hirsutum* L.) Against Water Stress by Using Compost and FYM. (Soil & Tillage research Journal, Under review).

Hussain, A. N., Zafar, M., Ahmad, M., Khan, R., Yaseen, G., Khan, M. S., ... & Shaheen, S. (2018). Comparative SEM and LM foliar epidermal and palyno-morphological studies of Amaranthaceae and its taxonomic implications. *Microscopy Research and Technique*, *81*(5), 474-485. https://doi.org/10.1002/jemt.23001.

"Notulae to the Italian alien vascular flora: 14".

https://goto.arphahub.com/ge4ONqinx9oS.

Notulae to the Italian alien vascular flora: 11.
https://iris.unito.it/retrieve/handle/2318/1789076/761679/34.%20Notulae%20aliene%2011.pdf

Nuove segnalazioni floristiche italiane 9. Flora vascolare
http://notiziario.societabotanicaitaliana.it/wp-content/uploads/2020/11/Nuove-SFI-9.pdf