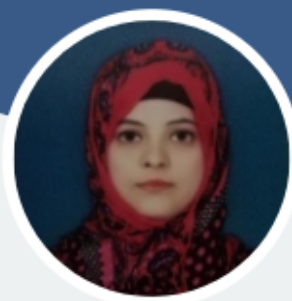


Dr. Shehla Shinwari



Personal details

 Dr. Shehla Shinwari

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Phase - 2, Margalla Town
Islamabad
44000 Islamabad

 Female

 Pakistani

Skills

Plant Taxonomy	●●●●●
Molecular Characterization	●●●●●
Plant Systematics	●●●●●
Morphological Analysis	●●●●●
Genetic Analysis	●●●●●
Curriculum Development	●●●●●
Teaching and Mentoring	●●●●●
Experimental Methodology	●●●●●
Curriculum Innovation	●●●●●

Languages

English ●●●●●

Education

DOCTOR OF PHILOSOPHY (PhD)

2014 - 2017

Department of Plant sciences Quaid i Azam University, Islamabad

Specialization:- Plant sciences (Plant Taxonomy and Systematics)

Division:- 1st

Earned Merit scholarships during Ph. D from 2014 to 2017

- Advanced methodologies in Plant Taxonomy including morphological and molecular characterization techniques for accurate species identification.
- Development of research proficiency through design and execution of original experiments addressing taxonomic challenges in plant sciences.
- Critical analysis and synthesis of scientific literature to support taxonomic revisions and phylogenetic studies.
- Scholarly communication skills, including writing peer-reviewed journal articles and presenting research findings at academic conferences.
- Comprehensive understanding of Plant Systematics with emphasis on evolutionary relationships and classification systems of diverse plant groups.

MASTER OF PHILOSOPHY (MPhil)

2011 - 2013

Department of Plant sciences Quaid i Azam University, Islamabad

Specialization:- Plant Sciences (Genetics)

Division:- 1st

CHANCELLOR MEDAL (For standing 1st in M.Phil. Biological Sciences Department) in 2013.

VICE CHANCELLOR MEDAL (For standing 1st in M.Phil. Plant sciences) in 2013.

- In-depth study of plant genetics focusing on gene expression, inheritance patterns, and molecular markers.
- Techniques in genetic analysis including DNA extraction, PCR amplification, and gel electrophoresis applied to plant species.
- Gained expertise in advanced research design and methodology relevant to experimental genetics in plant sciences.

Master Of Science (MSC)

2009 - 2011

PMAS Arid agricultural University, Rawalpindi

Specialization:- Plant Sciences

Division:- 1st

Bachelor of Science (BSC)

2007 - 2009

F.G college for Women F 7/2, Islamabad

Specialization: Botany, Zoology, Chemistry

Division: 1st

Higher Secondary School (FSC)

2005 - 2007

IMCG F6/2, Islamabad

Subjects: Pre-medical

Division: 1st

Secondary School Certificate (Matric)

2003 - 2005

Fazaia Inter College, Kohat

Division:- 1st

Pashto



Urdu



Arabic



Hobbies

■ Reading scientific journals

■ Gardening and plant care

Employment

Teaching and Research Exposure

Sep 2024 - Present

PMAS - Arid Agriculture University Department of Plant Sciences, Islamabad
Designed and delivered undergraduate and graduate courses in Plant Taxonomy and Systematics, integrating both morphological and molecular characterization techniques.

Teaching and Research Exposure

Sep 2021 - Mar 2022

Islamia University, Bahawalpur

Developed and implemented innovative curriculum for undergraduate and graduate courses in Plant Taxonomy and Systematics, integrating molecular and morphological analysis techniques.

Teaching and Research Experience

Oct 2018 - Aug 2020

Karakorum international university, Gilgit

- Assistant Professor
- SRGP HEC project worth 0.5 million status has been successfully completed

Research Exposure

2012 - 2013

National Agricultural Research Centre (NARC), Islamabad

Book Publication

- The Bagrote Valley Gilgit Baltistan: Plant diversity and Ethnobotanical Aspects Öztürk, M., Sridhar, K.R., Sarwat, M., Altay, V. and Huerta-Martinez, F.M. eds., 2023. Ethnic Knowledge and Perspectives of Medicinal Plants: Volume 2: Nutritional and Dietary Benefits. CRC Press. (Chapter written)

Publication

- SHINWARI, A.K., AHMAD, M., ALSAHLI, A.A., ISRAR, A., SHINWARI, Z.K., SHINWARI, S., ZHANG, L., GAFFOROV, Y. and YILMAZ, M.E., 2024. Himalayan Medicinal Plants Wealth, Threats and Conservation for securing the future of Biodiversity. Pak. J. Bot, 56(6), pp.2327-2350.
- Abbas, Q. and Shinwari, S., 2023. The Bagrote Valley Gilgit-Baltistan Plant Diversity and Ethnobotanical Aspects. In Ethnic Knowledge and Perspectives of Medicinal Plants (pp. 153-175). Apple Academic Press.
- Noor, A., Khatoon, S., Ahmed, M., Razaq, A., Khan, S.W., Nafees, M.A., Naseer, F., Nizami, S.M., Shinwari, S., Khan, W. and Haider, S., 2020. Assessment of Angiosperm Dicots of Astore Valley Gilgit-Baltistan, Pakistan: Assessment of Angiosperm Dicots of Astore Valley, Gilgit-Baltistan. Proceedings of the Pakistan Academy of Sciences: B. Life and Environmental Sciences, 57(3), pp.41-70.
- Abbas, Q., Hussain, A., Khan, S.W., Hussain, A., Shinwari, S., Hussain, A., Ullah, A., Zafar, M. and Ali, K., 2019. Floristic Diversity, Ethnobotany and Traditional Recipes of Medicinal Plants of Maruk Nallah, Haramosh Valley, District Gilgit, Gilgit Baltistan: Traditional recipes of Maruk Nallah, Haramosh Valley, District Gilgit. Proceedings of the Pakistan Academy of Sciences: B. Life and Environmental Sciences, 56(3), pp.97-112

- Hussain, A., Zafar, M., Shinwari, S., Shinwari, Z.K., Ahmad, M., Sultana, S. and Yaseen, G., 2020. Ethnoveterinary uses of medicinal plants as herbal drugs for sustainable livestock in southern deserts of Sindh Pakistan. *Pak. J. Bot*, 53(2), pp.673-690.
- Khan, I., Shinwari, Z.K., Zahra, N.B., Jan, S.A., Shinwari, S. and Najeebullah, S., 2019. DNA barcoding and molecular systematics of selected species of family Acanthaceae. *Pak. J. Bot*, 52(1), pp.205-212.
- Ahmad, S., Zafar, M., Shinwari, S., Ahmad, M., Shinwari, Z.K., Sultana, S. and Butt, M.A., 2020. Ethno-medicinal plants and traditional knowledge linked to primary health care among the indigenous communities living in western hilly slopes of Dera Ghazi Khan, Pakistan. *Pak. J. Bot*, 52(2), pp.519-530
- Yaseen, G., Ahmad, M., Shinwari, S., Potter, D., Zafar, M., Zhang, G., Shinwari, Z.K. and Sultana, S., 2019. Medicinal plant diversity used for livelihood of public health in deserts and arid regions of Sindh-Pakistan. *Pakistan journal of botany*, 51(2), pp.2409-2419
- Hussain, J., Mabood, F., Al-Harrasi, A., Ali, L., Rizvi, T.S., Jabeen, F., Gilani, S. A., Shinwari, S., Ahmad, M., Alabri, Z.K. and Al Ghawi, S.H.S., 2018. New robust sensitive florescence spectroscopy coupled with PLSR for estimation of quercetin in *Ziziphus mucronata* and *Ziziphus sativa*. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*
- Tariq, A., Adnan, M., Ahmad, M., Shinwari, S., Amber, R., Sadia, S. and Mussarat, S., 2017. Pakistani Anti-Mastitis Medicinal Plants And Their Scientific Validation Against Multidrug Resistance Mastinogen *Staphylococcus Aureus*. *Pak. J. Bot*, 49(6), pp.2395-2404
- Shinwari, S., Mushtaq, A., Yinggang, L. and Zaman, W., 2017. Quantitative Analyses Of Medicinal Plants Consumption Among The Inhabitants Of Shangla-kohistan Areas In Northern-pakistan. *Pak. J. Bot.*, 49(2): 725-734
- Shinwari, S., Mushtaq, A., Yinggang, L., Jahan, S. and Sultana, S. 2017. Medicinal plant diversity use for gynecological disorders among the rural communities of northern pakistan. *Pak. J. Bot.*, 49(2): 1787-1799
- Habiba, U., Ahmad, M., Shinwari, S., Sultana, S., Shinwari, Z.K. and Zafar, M. D., 2016. Antibacterial and antifungal potential of Himalayan medicinal plants for treating wound infections. *Pak J Bot*, 48, pp.371-5
- Ahmed, S.N., Ahmad, M., Shinwari, Z.K. and Shinwari, S., 2016. Taxonomic, pharmacognostic and physicochemical authentication of *colchicum luteum* baker (suranjantalkh) from its commercial adulterant. *Pak. J. Bot*, 48(5), pp.2039-2045.
- Shinwari, S., Akbar, F., Rabbani, M.A., Mumtaz, A.S. and Shinwari, Z.K., 2013. Evaluation of genetic diversity in different genotypes of *Eruca sativa* from Pakistan by SDS-PGE analysis. *Pak. J. Bot*, 45(4), pp.1235-1240
- Shinwari, S., Mumtaz, A.S., Rabbani, M.A., Akbar, F. and Shinwari, Z.K., 2013. Genetic divergence in *Taramira* (*Eruca sativa* L.) germplasm based on quantitative and qualitative characters. *Pak. J. Bot*, 45, pp.375-381
- Shinwari, S., Rahmatullah Qureshi, and Elias Baydoun. "Ethnobotanical study of Kohat Pass (Pakistan)." *Pak. J. Bot* 43 (2011): 135-139

■ Shinwari, Z.K. and Shinwari, S., 2010. Molecular data and phylogeny of family Smilacaceae. Pak. J. Bot, 42, pp.111 -116.

■ 2 articles are under Review

Workshop, Webinars and Conferences

Certificate of Appreciation for organizing MAAP-PAS-ANSO Hybrid Workshop on "Ecosystem Restoration: One-Health and Pandemics"	Jun 2022
Certificate of Organizer for organizing ASSA-PAS Webinar Series 2021, Webinar II: "Pandemic Preparedness, One Health: Lessons Learnt"	May 2021
Certificate of Organizer for organizing ASSA-PAS Webinar Series 2021, Webinar I: "SDGs and Pandemics"	Apr 2021
"Biological Waste Management Workshop" at Karakoram International University, Gilgit Baltistan Recognized for facilitation role	Nov 2019
MAPS Training Workshop on "Conservation of Medicinal Plants and Herbarium Techniques". Acknowledged for exemplary facilitation	Dec 2018
International Conference on Energy Production Participated in 3 days international conference on energy production from agriculture and domestic wastes from 15 to 17 April, 2014	Apr 2014
International Conference of Botany Participated in 12 National and 3 international conference of Botany, 1-3 September, 2012 organized by Pakistan Botanical Society and Quaid-e-azam University at Quaid-e-azam University, Islamabad	Sep 2012
International Bioenergy Conference Participated in 3 days International Bio-energy conference 2012 under auspices of HEC Pakistan at Arid Agriculture University Rawalpindi	Mar 2012
PARC and TASO PGR Workshop on "Conservation and Sustainable Utilization of Medicinal Plants in Pakistan" October, 2011 Delivered Presentation on "Role of DNA Barcoding in identification of Medicinal Plants"	Oct 2011
2nd International Conference of Botany QAU Islamabad Pakistan Delivered Presentation on "Ethnobotanical Study of Kohat Pass Pakistan	Dec 2011