

Dr. ZAINUL ABIDEEN

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MAILING ADDRESS

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EDUCATION

• Post-doctoral Position.

DAAD Fellow from June 2016.
Adviser: Prof. Hans Werner Koyro
Justus Liebig University Giessen Germany
Institute of Pflanzenökologie, Heinrich-Buff-Ring 38, 35392 Gießen.

• Ph.D.

Ph. D in Botany (Plant ecophysiology) March 2015.
Title: Screening of coastal halophyte as a potential biofuel crop.
Adviser: Prof. Dr. M. Ajmal Khan.
Institute of sustainable halophyte utilization, University of Karachi, Karachi, Pakistan.

• M.Sc. (Botany- Plant Ecology).

2006-2007. Department of Botany, University of Karachi, Karachi, Pakistan,

• B.Sc. Hons. (Botany).

2003- 2005, University of Karachi, Karachi, Pakistan.

• Intermediate (Pre-Med).

2002, Al noor degree college federal area Karachi, Pakistan.

• Matriculation (Science).

1998-1999 Malik Jamal high School Karachi, Pakistan

ACADEMIC AWARD and HONORS

Graduate Assessment Test (GAT) passed in 2008
GAT Subjective (Botany) passed in 2013

MAJOR RESEARCH INTERESTS

Screening and development of halophytes as biofuel crop by using brackish water and utilization of halophytic grasses as a renewable source. Enhancement of biomass using biochar and other soil amendments.

SCIENTIFIC EQUIPMENTS

- High Performance Liquid Chromatography
- Gas Chromatography
- Li COR 6400
- Li COR 8100
- PAM
- Expert in Quick Check hydroponic system (QCS)

LANGUAGE SKILLS

- German Language course from Goethe institute Gottingen Germany.
- Proficiency in English and Urdu language.

COMPUTER SKILLS

- Microsoft Windows, Microsoft Office, Sigma Plot, SPSS & Internet

MEMBERSHIP OF WEB - BASED DISCUSSION GROUPS

- 2016: Alumni member of DAAD Germany
- 2016: Alumni member of Goethe-Institute Gottingen Germany
- 2015: Member of Pakistan Botanical Society
- 2006: Plant stress Group (Yahoo)

RESEARCH AND PROFESSIONAL EXPERIENCE

- **2006-2007: Research Associate** HEC funded project in salt induced oxidative stress in plants.
- **2007-Onwards: HEC Indigenous Scholar** in Institute of Sustainable Halophyte Utilization (ISHU), University of Karachi, Karachi, Pakistan.
- **2006-2009** worked on Screening of halophytes utilized as edible oil and biodiesel
- **HEC Split Ph.D scholar** (2011 Nov to 2012 Nov) HEC Split Ph.D scholar in Germany for 12 months.
- **Research Officer (BPS-17) 2013 on ward** in Institute of Sustainable Halophyte Utilization (ISHU), University of Karachi, Karachi, Pakistan
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SEMINARS / CONFERENCES / WORKSHOPS ATTENDED

- **2011:** Advances in Ecophysiology of salt tolerance (April 11-13) at Institute of sustainable halophyte utilization, University of Karachi.
- **2010:** Workshop on "Physiological Ecology of Salt Tolerance" (April 27-29), Institute of Sustainable Halophyte Utilization, University of Karachi.
- **2008:** Workshop on Recent Trends in Plant Sciences: Impact on Biodiversity (April 16-18) organized by Institute of Sustainable Halophyte Utilization, University of Karachi, Karachi.

RESEARCH PUBLICATIONS

- 1 Kumari, D., **Abideen, Z.**, Ahmad, A., Gul, B., Khan, MA., Khan, SA. Plant cell-wall degrading enzymes from indigenous fungi grown on conventional and novel natural substrates *Pakistan Journal of Botany* (Revised for publication).
- 2 Ehsen, S., Qasim, M., **Abideen, Z.**, Fatima Rizvi, R., Gul, B., Ansari, R & Khan, MA 2016. Secondary metabolites as anti-nutritional factors in locally used halophytic forage/fodder. *Pakistan Journal of Botany* 48 (2) 629-636.
- 3 **Abideen, Z.**, Qasim, M., Fatima Rizvi, R., Ansari, R., Gul, B., & Khan, MA 2015. Oilseed halophytes: a potential source of biodiesel using saline degraded lands. *Biofuels Taylor and Francis* 6 (5-6): 241-248.
- 4 **Abideen, Z.**, Qasim, M., Rasheed A., Adnan, M.Y., Gul, B., & Khan, MA Ajmal, M. 2015. Antioxidant activity and polyphenol content of *Phragmites karka* under saline conditions. *Pakistan Journal of Botany* 47(3): 813-818.
- 5 **Abideen, Z.**, Hameed, A., Koyro, H. W, Gul, B., Ansari, R & Khan, M.A. 2014. Sustainable biofuel production from non-food sources - An overview. *Emirates Journal of Food and Agriculture*. 26 (12): 1057-1066.
- 6 **Abideen, Z.**, Koyro, H.W., Huchzermeyer, B., Ahmed, M. Z., Gul, B., & Khan, M.A. 2014. Moderate salinity stimulates growth and photosynthesis of *Phragmites karka* by water relations and tissue specific ion regulation. *Environmental and Experimental Botany*. 105, 70-76.
- 7 Koyro, H. W., Lieth, H., Gul, B., Ansari, R., Huchzermeyer, B., **Abideen, Z.**, & Khan, M. A. 2014. Importance of the Diversity within the Halophytes to Agriculture and Land Management in Arid and Semiarid Countries. In *Sabkha Ecosystems: Volume IV: Cash Crop Halophyte and Biodiversity Conservation* (pp. 175-198). Springer Netherlands.
- 8 Qasim, M., **Abideen, Z.**, Adnan, M. Y., Ansari, R., Gul, B., & Ajmal, M. 2014. Traditional ethno-botanical uses of medicinal plants from coastal areas of. *Journal of Coastal Life Medicine*, 2(1), 22-30.
- 9 Gul, B., **Abideen, Z.**, Ansari, R., Khan, M.A. 2013. Halophytic biofuel revisited. *Biofuels* 4(6), 575-577.
- 10 **Abideen, Z.**, Ansari, R., Gul. B., Khan, M.A. 2012. The place of halophytes in the biofuel industry. *Biofuels* 3(2), 211-220.
- 11 **Abideen, Z.**, Ansari, R., Khan, M.A., 2011. Halophytes: Potential source of ligno-cellulosic biomass for ethanol production. *Biomass & Bioenergy* 35, 1818-1822.

RESEARCH PUBLICATIONS SUBMITTED

IMPACT FACTOR & CITATION

8.87 And **118** citations (Google scholar)

MANUSCRIPT REVIEWER

Scientific Research and Essays

REFERENCES

1. Prof. Dr. Muhammad Ajmal Khan S.I.

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2. Prof Hans Werner Koyro

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