



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 6199

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di Bioscienze

Scientist- in - charge: Prof. Kater Martin

[ISRAR UD DIN]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Ud Din
Name	Israr

PRESENT OCCUPATION

Appointment	Structure
Assistant Professor (TTS) From January 2018 till now)	Institute of Biotechnology and Genetic Engineering (IBGE), The University of Agriculture Peshawar

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	BSc (Biological Sciences)	University of Peshawar	2005
Specialization	MSc (Botany)	Islamia College, University of Peshawar	2007
PhD	Biological and Molecular Sciences	University of Milan	2017
Master	Biotechnology and Genetic Engineering	The University of Agriculture Peshawar	2011
Degree of medical specialization			
Degree of European specialization			
Other			



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of	Association	City
NA		NA	NA

FOREIGN LANGUAGES

Languages	level of knowledge
English	Advance (W, R and S)
Urdu	Advance (W, R and S)
Pashto	Advance (W, R and S)

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2013-2017	Faculty Development Scholarship for PhD studies at University of Milan, Italy, Funded by Higher Education Commission of Pakistan
2007	Gold Medal in MSc (Botany), Department of Botany Islamia College, University of Peshawar
2016	Young Scientist Travel Grant by ISRFG2016, to participate in 14th International Symposium on Rice Functional Genomics. 26-29 Sept. 2016, Montpellier, France

TRAINING OR RESEARCH ACTIVITY

description of activity

PROJECT ACTIVITY

Year	Project
2013-17	French-Italian Rice Science and Technology Initiative [Ref. CFP 2012-01] Amount: 479613 €. Understanding of the evolution of reproductive development in Rice for the improvement of modern cultivated rice.
2018-19	SRGP (HEC). 2018. Amount: 0.84M Molecular characterization of exotic and local rice (<i>Oryza sativa</i> L.) germplasm for drought tolerance under different climatic conditions.

PATENTS

Patent



CONGRESSES AND SEMINARS

Date	Title	Place
May 24-26, 2022	5 th International Conference on Advances in Biosciences: Bridging the gap between research and sustainable development goals.	University of Swat, Pakistan.
March 02-03, 2022	Two-days training workshop on "Genetic and Genomic approaches for wheat production enhancement".	Hazara University Mansehra, Pakistan.
December 23-24, 2021	4 th International Symposium on Advances in Molecular Biology of Plants & Health Sciences.	Center of Excellence in Molecular Biology (CEMB) Lahore, Pakistan.
December 2-4, 2021	Two days Hands on training workshop, "Industrial Biotechnology and Plant Tissue Culture".	IBGE, The University of Agriculture Peshawar, Pakistan.
February 19-20, 2020	Two Days National Workshop on, "Beneficial Microbes & Sustainable Crop Production".	The University of agriculture Peshawar, Pakistan.
Jan 15-16, 2019	Training course on classical and molecular approaches in wheat breeding".	The University of Agriculture Peshawar, Pakistan.
Feb 19-20, 2019	One day workshop on "Integration of ICT in Agriculture and Applied Research"	The University of Agriculture Peshawar, Pakistan.
April 25-26, 2019	Two days Hands on training workshop on Plant tissue culture techniques (As Organizer and resource person)	IBGE, The University of Agriculture Peshawar
October 3-5, 2019	Third National Conference on emerging trends in Bioinformatics and Biosciences.	Hazara University, Mansehra, Pakistan
Oct 23-24, 2019	International Conference on "Strategies for ensuring food security in the changing climate".	The University of agriculture Peshawar, Pakistan
Dec 19-20, 2019	Two-days training on Biorisk management by Association for Biorisk Management.	The University of Agriculture Peshawar
March 23-26, 2018	Participated in the 7th International and 16th National Conference, "Plant Resources: Current Trends, Challenges and Solutions".	Islamia College University Peshawar, Pakistan.
June 7-8, 2016	Exposeed Meeting	CREA, Italy



June 23-24, 2016	5th PhD School Workshop	School of Molecular and Cellular Biology, University of Milan, Italy
26-29 Sept. 2016	14th International Symposium on Rice Functional Genomics (ISRFG),	Montpellier, France
2015	International Workshop on Molecular Control of Flower Development	Aiguablava, Spain

PUBLICATIONS

Books
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]

Articles in reviews
<p>A. <u>Selected Publications</u></p> <ol style="list-style-type: none">1. Ud Din I, Khan S, Khan F, Khan M, Khan MN, et al., (2023). Genetic Characterization of Advance Bread Wheat Lines for Yield and Stripe Rust Resistance. ACS Omega https://doi.org/10.1021/acsomega.3c019812. Beretta VM, Franchini E, Ud Din I, et al. (2023). The ALOG family members <i>OsGIL1</i> and <i>OsGIL2</i> regulate inflorescence branching in rice. The Plant Journal https://doi.org/10.1111/tpj.16229 (IF: 7.091).3. Fazal, U., Ud Din, I., Khan, AM., et al. (2022). Evaluation of agro-morphological traits, seed characterization and genetic diversity of local rice (<i>Oryza sativa</i> L.) varieties of Pakistan. Genetic Resources and Crop Evolution. https://doi.org/10.1007/s10722-022-01478-4 (IF: 1.52).4. Mehmood, S., Ud Din, I., Ullah, I. et al. (2021). Agro-morphological and genetic diversity studies in Rice (<i>Oryza sativa</i> L.) germplasm using microsatellite markers. Molecular Biology Report. https://doi.org/10.1007/s11033-021-06710-5 (IF: 2.3).5. Jun Chen J., Arafat Y, Ud Din I, Yang B, Zhou L, Juanying Wang, et al. (2019). Nitrogen Fertilizer Amendment Alter the Bacterial Community Structure in the Rhizosphere of Rice (<i>Oryza sativa</i> L.) and Improve Crop Yield. Frontiers in Microbiology 10:2623 (doi: 10.3389/fmicb.2019.02623) (IF: 4.07).6. Harrop TW, Ud Din I, Gregis V, Osnato M, Jouannic S, Adam H, Kater MM. (2016) Gene expression profiling of reproductive meristem types in early rice inflorescences by laser microdissection. The Plant Journal 86(1):75-88. doi: 10.1111/tpj.13147 (IF: 6.17).



B. [Other Publications](#)

7. Tahir, O.; Bangash, S.A.K.; Ibrahim, M.; Shahab, S.; Khattak, S.H.; **Ud Din, I.**; Khan, M.N.; Hafeez, A.; Wahab, S.; Ali, B.; Makki, R.M.; Harakeh, S. (2023). Evaluation of Agronomic Performance and Genetic Diversity Analysis Using Simple Sequence Repeats Markers in Selected Wheat Lines. *Sustainability*, 15, 293. <https://doi.org/10.3390/su15010293> (IF: 3.25)
8. Ihsan, M., **Ud Din, I.**, Alam, K., Munir, I., Mohammad, H., Khan, F. (2023). Green Fabrication, Characterization of Zinc Oxide Nanoparticles Using Plant Extract of Momordica charantia and Curcuma zedoaria and Their Antibacterial and Antioxidant Activities. *Applied Biochemistry and Biotechnology*. <https://doi.org/10.1007/s12010-022-04309-5> (IF: 2.43).
9. Ibrahim M, Ahmad S, **Ud Din I**, Ahmad W, Ahmad I, Khan SH, Ul Haq I, Zeb J, Sparagano OA. (2022) Microsatellite analysis revealed potential DNA markers for gestation length in Kari sheep. *Animals* **12(23)**, 3292; <https://doi.org/10.3390/ani12233292> (IF: 3.23)
10. Ullah S, Khan MN, Lodhi SS, Ahmed I, Tayyab M, Mehmood T, **Ud Din I**, Khan M, Sohail Q and Akram M (2022), Targeted metabolomics reveals fatty acid abundance adjustments as playing a crucial role in drought-stress response and post-drought recovery in wheat. *Frontiers in Genetics* 13:972696. <https://doi.org/10.3389/fgene.2022.972696> (IF: 4.77)
11. S. Bibi, S. Ullah, Aqsa Hafeez, M. N. Khan, M. A. Javed, B. Ali, **Ud Din I**, S. A. K. Bangash, S. Wahab, N. Wahid, F. Zaman, S. K. Alhag I. H. A. Abd. El-Rahim, A. E. Ahmed, S. Selim (2022) Exogenous Ca/Mg quotient reduces the inhibitory effects of PEG induced osmotic stress on Avena sativa L. *Brazilian Journal of Biology* 84-2024. <https://doi.org/10.1590/1519-6984.264642> (IF: 1.65)
12. Khan MN, Ahmad I, **Ud Din I**, et al. (2022). Proteomic insight into soybean response to flooding stress reveals changes in basic energy metabolism and cell wall modifications. *PLOS ONE* 17(5): e0264453. <https://doi.org/10.1371/journal.pone.0264453> (IF: 3.75)
13. Amjad SF, Mansoor N, **Ud Din I**, Khalid Iqbal R, Jatoi GH, Murtaza G, Yaseen S, Naz M, Danish S, Fahad S, Datta R. (2021). Application of Zinc Fertilizer and Mycorrhizal Inoculation on Physio-Biochemical Parameters of Wheat Grown under Water-Stressed Environment. *Sustainability*. 13(19):11007. <https://doi.org/10.3390/su131911007> (IF: 3.25)
14. Jun Chen, Zhou L, **Ud Din I**, Arafat Y, Li Q. et al. (2021). Antagonistic Activity of Trichoderma spp. Against Fusarium oxysporum in Rhizosphere of Radix pseudostellariae Triggers the Expression of Host Defense Genes and Improves Its Growth Under Long-Term Monoculture System. *Frontiers in Microbiology* (DOI: 10.3389/fmicb.2021.579920) (IF: 4.07)
15. Arafat Y, **Ud Din I**, Tayyab M, Hang JU, Chen T, Cai Z, Zhao H, Lin H, Lin W, Sheng L. (2020). Soil-sickness in aged tea plantation is associated with a shift in microbial communities as a result of plant polyphenol accumulation in the tea gardens. *Frontiers in Plant Science*, 11: 601 (<https://doi.org/10.3389/fpls.2020.00601>) (IF: 5.7)
16. Zeb J, Shams S, Ayaz S, **Ud Din I**, Khan A, Adil N, Khan H, Raza A. (2020). Epidemiology of ticks and molecular characterization of rhipicephalus microplus in cattle population in north-western Pakistan. *International Journal of Acarology*. 46 (5), 335-343 (DOI: 10.1080/01647954.2020.1775294) (IF: 0.9)
17. Zeb J, Shams S, **Ud Din I**, Ayaz S, Khan A, Khana MA, Adil N, Amin H, Senbil H. 2020. Molecular epidemiology and associated risk factors of Anaplasma marginale and Theileria annulata in cattle from North-western Pakistan. *Veterinary Parasitology*, 279: 109044 (<https://doi.org/10.1016/j.vetpar.2020.109044>) (IF: 2.0)
18. Khan. AM, Uddin R, Rehman ZU, **Ud Din I**, Muhammad A, Ali Q, Iqbal N, Zafar A. (2019) Genetic variability and heritability for yield and yield associated traits among Brassica napus genotypes. *Int. J. Biosciences* 14(4), 369-377.
19. Khan AW, Nawab S, Nasim Z, Khan AH, Ahmad SI, Zahir F, **Ud Din I**. (2017) Pattern of hepatitis C virus genotypes and subtypes circulating in war stricken Khyber Pakhtunkhwa, Pakistan: Review of published literature. *Asian Pac. J. Trop. Med.* 10(11):1037-1042. (IF: 1.2)
20. Shah AH, Shah SH, Ahmad H, Baig A, Swati ZA, Aiman U, **Ud Din I**, Khalid Q, and Shah AH. (2011) Co adaptation of LiCl tolerant Solanum tuberosum L. callus cultures to NaCl stress. *African Journal of Biotechnology*, 10(62): 13444-52.



Congress proceedings
[title, structure, place, year]
[title, structure, place, year]
[title, structure, place, year]

OTHER INFORMATION

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

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Place and date: The University of Agriculture Peshawar, Pakistan, 05/01/2024