



AL MAGNIFICO RETTORE  
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID: 7026

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il Dipartimento di Dipartimento di Biosciences

Responsabile scientifico: \_\_ Prof. Kater Martin

[Rana Khalid Iqbal]

**CURRICULUM VITAE**

**INFORMAZIONI PERSONALI**

<b>Cognome</b>	Iqbal
<b>Nome</b>	Rana Khalid

**OCCUPAZIONE ATTUALE**

<b>Incarico</b>	<b>Struttura</b>
Assistant Professor	Institute of Molecular Biology and Biotechnology, BZU, Multan (April-2023 - At Present)
Postdoc	Department of Biology, University of Padova, Italy (Jan-2022 to April-2023)
Assistant Professor	Institute of Molecular Biology and Biotechnology, BZU, Multan (August2017 to Jan-2022)
Lecturer	Institute of Molecular Biology and Biotechnology, BZU, Multan (Oct-2012 to Jan-2013)

**ISTRUZIONE E FORMAZIONE**

<b>Titolo</b>	<b>Corso di studi</b>	<b>Università</b>	<b>anno conseguimento titolo</b>
Laurea Magistrale o equivalente			
Specializzazione			
Dottorato Di Ricerca Ph.D	Aspects of Molecular and Cellular Biology	University of Strasbourg, France	2017
Master of Philosophy	Biotechnology	Bahauddin Zakariya University, Multan	2011
Master of Sceicne	Biotechnology	Bahauddin Zakariya University, Multan	2008
Bachelor of sceince	B.Sc	Bahauddin Zakariya University, Multan	2006



HHSc	Higher Secondary School Certificate	BISE Multan	2004
SSC	High Secondary School certificate	BISE Multan	2002

## ISCRIZIONE AD ORDINI PROFESSIONALI

Data iscrizione	Ordine	Città



## LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
English	C2

## PREMI, RICONOSCIMENTI E BORSE DI STUDIO

Anno	Descrizione premio
2012	Won a fully funded Ph.D. scholarship for conducting research for doctoral studies at the University of Strassburg, France.
2022	Postdoc fellowship at the Department of Biology, University of Padova, Italy

## ATTIVITÀ DI FORMAZIONE O DI RICERCA

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## ATTIVITÀ PROGETTUALE

Anno	Progetto

## TITOLARITÀ DI BREVETTI

Brevetto

## CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede



**PUBBLICAZIONI: for first author and \*corresponding author) Impact Factor: 80.46**

1. Dietrich, André, Clémentine Wallet, **Rana Khalid Iqbal**, José M. Gualberto, and Frédérique Lotfi. "Organellar non-coding RNAs: emerging regulation mechanisms." *Biochimie* 117 (2015): 48-62. **(impact factor 4.079)**
2. Niazi, Adnan Khan†, Etienne Delannoy†, **Rana Khalid Iqbal**†, Daria Mileschina, Romain Val, Marta Gabryelska, Eliza Wyszko et al. "Mitochondrial transcriptome control and intercompartment cross-talk during plant development." *Cells* 8, no. 6 (2019): 583. **(impact factor 6.00)**
3. Gilani, Munaza, Subhan Danish, Niaz Ahmed, Ashfaq Ahmad Rahi, Ahmed Akrem, Uzma Younis, Inam Irshad, and **Rana Khalid Iqbal\***. "Mitigation of drought stress in spinach using individual and combined applications of salicylic acid and potassium." *Pak. J. Bot* 52, no. 5 (2020): 1505-1513. **(impact factor 1.2)**
4. Sabir, Ali, Arslan Iftikhar, Muhammad Umar Ijaz, Ghulam Hussain, Azhar Rasul, **Rana Khalid Iqbal**, Faiqa Sajid, and Haseeb Anwar. "Retrospective study of frequency of ABO and Rhesus blood group among population of Safdarabad and Faisalabad cities of Pakistan." *BMC Research Notes* 14 (2021): 1-5. **(impact factor 1.8)**
5. Amjad, Syeda Fasiha, Nida Mansoor, Israr Ud Din, **Rana Khalid Iqbal**, Ghulam Hussain Jatoti, Ghulam Murtaza, Samia Yaseen et al. "Application of zinc fertilizer and mycorrhizal inoculation on physio-biochemical parameters of wheat grown under water-stressed environment." *Sustainability* 13, no. 19 (2021): 11007. **(impact factor 3.9)**
6. Iqbal, Javed, Sidra Kiran, Shabir Hussain, **Rana Khalid Iqbal**, Umber Ghafoor, Uzma Younis, Tayebbeh Zarei et al. "Acidified biochar confers improvement in quality and yield attributes of sufaid chaunsa mango in saline soil." *Horticulturae* 7, no. 11 (2021): 418. **(impact factor 2.923)**
7. Sardar, Rehana, Asma Zulfiqar, Shakil Ahmed, Anis Ali Shah, **Rana Khalid Iqbal**, Shabir Hussain, Subhan Danish et al. "Proteomic changes in various plant tissues associated with chromium stress in sunflower." *Saudi Journal of Biological Sciences* 29, no. 4 (2022): 2604-2612. **(Impact Factor 4.4)**
8. Aziz, Muhammad Naveed†, **Rana Khalid Iqbal**†, Muhammad Irfan, Asia Parveen, Muhammad Asif, Sezayi Ozubek, Munir Aktas, Mourad Ben Said, and Furhan Iqbal. "First report on molecular epidemiology, seasonality and phylogeny of Toxoplasma gondii infecting goats from Khanewal district in Punjab, Pakistan." *Acta Tropica* 228 (2022): 106304. **(Impact Factor 2.7)**
9. Aziz, Muhammad Naveed, Muhammad Irfan, Asia Parveen, Muhammad Asif, Maryam Ijaz, Sadia Mumtaz, Sezayi Ozubek, Munir Aktas, **Rana Khalid Iqbal\***, and Furhan Iqbal. "Prevalence, epidemiology, seasonality, and phylogeny of Anaplasma marginale in blood samples of goats collected from Punjab, Pakistan." *Tropical Animal Health and Production* 54, no. 1 (2022): 74. **(Impact Factor 1.893)**
10. Iftikhar, Arslan, Rimsha Nausheen, Imran Mukhtar, **Rana Khalid Iqbal**, Ahmad Raza, Ayesha Yasin, and Haseeb Anwar. "The regenerative potential of honey: A comprehensive literature review." *Journal of Apicultural Research* 62, no. 1 (2023): 97-112. **(Impact Factor 1.9)**
11. Jamil, Hira, Adeela Awan, Atif Akbar, Muhammad Babar, Sana Akhtar, **Rana Khalid Iqbal**, and Furhan Iqbal. "A study of association between presence or absence of GSTT1 and GSTM1 and/or single nucleotide polymorphism in FABP2 and GSTP1 with incidence of diabetes type 2: A case-control study." *Journal of Pakistan Medical Association* 72, no. 4 (2022): 714-714. **(Impact Factor 1.002)**



12. Taalay, Iram†, **Rana Khalid Iqbal**†, Muhammad Asif, Aqib Ahmad, Muhammad Amjad, Farhana Naureen Anwar, Munir Aktas, Mourad Ben Said, and Furhan Iqbal. "Molecular survey of Toxoplasma gondii in cattle and buffaloes and phylogenetic position of Pakistani isolates based on ITS-1 gene." *Comparative Immunology, Microbiology and Infectious Diseases* 84 (2022): 101782. **(impact factor 2.0)**
13. Khan, Rao Waqar Ahmad, Faisal Saeed Awan, and **Rana Khalid Iqbal**\*. "Evaluation and identification of salt tolerant wheat through in vitro salinity induction in seeds." *Pak J Bot* 54 (2022): 1987-93. **(impact factor 1.2)**
14. Saeed, Ahsan, Zahra Rafiq, Muhammad Imran, Qamar Saeed, Muhammad Q. Saeed, Zahid Ali, **Rana K. Iqbal** et al. "In-silico studies calculated a new chitin oligomer binding site inside vicilin: A potent antifungal and insecticidal agent." *Dose-Response* 20, no. 2 (2022): 15593258221108280. **(Impact Factor 2.623)**
15. Khan, Rao Waqar Ahmad, Rao Sohail Ahmad Khan, Faisal Saeed Awan\*, Ahmed Akrem, Arslan Iftikhar, Farhana Naureen Anwar, Hind AS Alzahrani, Hameed Alsamadany, and **Rana Khalid Iqbal**\*. "Genome-wide association studies of seedling quantitative trait loci against salt tolerance in wheat." *Frontiers in Genetics* 13 (2022): 946869. **(Impact Factor 3.7)**
16. Ali, Yasir, Sidra Iqbal, Hafiz Muhammad Aatif, Khalid Naveed, Azhar Abbas Khan, Muhammad Ijaz, Muhammad Murtaza Magsi **Rana Khalid Iqbal** et al. "Predicting stripe rust severity in wheat using meteorological data with environmental response modeling." *Journal of King Saud University-Science* 35, no. 4 (2023): 102591. **(Impact Factor 3.8)**
17. Syed, Asad, Abdallah M. Elgorban, Ali H. Bahkali, Rajalakshmanan Eswaramoorthy, **Rana Khalid Iqbal**, and Subhan Danish. "Metal-tolerant and siderophore producing Pseudomonas fluorescence and Trichoderma spp. improved the growth, biochemical features and yield attributes of chickpea by lowering Cd uptake." *Scientific Reports* 13, no. 1 (2023): 4471. **(Impact Factor 4.6)**
18. Kainat, Nermeen, Ahsan Saeed, Arslan Ali, Binish Khaliq, Sohaib Mehmood, Muhammad Qamar Saeed, **Rana Khalid Iqbal**, Sobia Khalid, and Ahmed Akrem. "In silico modeling and docking of salicylic acid revealing the sod like activity of an antimicrobial seed vicilin of capsicum annuum L. VAR. grossum." *Pak. J. Bot* 55, no. 5 (2023): 1941-1949. **(Impact Factor 1.2)**
19. Zerlasht, Mehwish, Sadaf Javaria, Mian Anjum Murtaza, **Rana Khalid Iqbal**, Muhammad Yousaf Quddoos, Sajida Azhar, Asad Syed, and Abdallah M. Elgorban. "Antimicrobial potential and phyto-physio-chemical characterization of brans from wheat, oat, and rice." *Journal of King Saud University-Science* 35, no. 5 (2023): 102709. **(Impact Factor 3.8)**
20. Iqbal, Muhammad, Naveed Iqbal Raja, Said Akbar Khan, Aamir Ali, Asma Hanif, Mubashir Hussain, Tauseef Anwar **Rana Khalid Iqbal** et al. "Evaluation of Green Synthesized Silver Nanoparticles against Bacterial Pathogenic Strains of Plants." *Pak. J. Bot* 55, no. 5 (2023): 1967-1972. **(Impact Factor 1.2)**
21. Ejaz Muhammad, Raja Naveed Iqbal, Khan Sajid Akbar Khan, Asad Syed, Rana Khalid Iqbal, Tauseef Anwar et al. Biosynthesized silver nanoparticles ameliorate biotic stress in rice (Oryza sativa) by intrincating biochemical and mineral profile. *Pak. J. Bot.* 2023 Jul 24;55(6):2019-28.



22. Naeem, Muhammad\*, Muhammad Nadeem, Hira Iqbal, Faiza Marrium, Hafiz Muhammad **Rana Khalid Iqbal\*** et al. New insights for exploring the bioactive nature and biomedical activities of allium cepa. " *Pak. J. Bot* 55, no. 6 (2023): 2203-2209. **(Impact Factor 1.2)**
23. Kumar, Sachin, Surinder Singh Rana, Neelam Sharma, **Rana Khalid Iqbal**, Huma Qureshi, Tauseef Anwar, Asad Syed, Abdallah M. Elgorban, and Rajalakshmanan Eswaramoorthy. "Weed phyto-sociology and diversity in relation to conservation agriculture and weed management strategies in Northwestern Himalayas of India." *Journal of King Saud University-Science* 35, no. 6 (2023): 102728. **(Impact Factor 3.8)**
24. Iftikhar, Arslan, Rimsha Nausheen, Mohsin Khurshid, **Rana Khalid Iqbal**, Humaira Muzaffar, Abdul Malik, Azmat Ali Khan et al. "Pancreatic regenerative potential of manuka honey evidenced through pancreatic histology and levels of transcription factors in diabetic rat model." *Heliyon* 9, no. 9 (2023). **(Impact Factor 4.0)**.
25. Aslam, Jawaria, Mirza Imran Shahzad\*, Hafiz Muhammad Ali, Mussarat Ramzan, Mohammad Zahid Mustafa, **Rana Khalid Iqbal\***, Abdurahman Hajinur Hirad, Abdullah A. Alarfaj, and Subhan Danish\*. "Antioxidant and anti-inflammatory potentials of aerial and floral parts of Neurada procumbens extracts: *In-vitro* and *in-vivo* studies." *Journal of King Saud University-Science* 35, no. 7 (2023): 102822. **(Impact Factor 3.8)**.
26. Irfan, Muhammad†, Shun-Chung Chang†, **Rana Khalid Iqbal†**, Muhammad Tanveer, Muhammad Asif, Adil Khan, Nasreen Nasreen et al. "Seasonality, epidemiology and phylogeny of *Theileria ovis* with a note on hematological and biochemical changes in asymptomatic infected goats from Pakistan." *PLoS One* 18, no. 8 (2023): e0290620. **(Impact Factor 3.7)**.
27. Qian, Lisheng, Khadim Dawar, Israr Ullah, Muhammad Irfan, Zhiheng Zhang, Ishaq Ahmad Mian, Bushra Khan **Rana Khalid Iqbal** et al. "Zinc foliar application mitigates cadmium-induced growth inhibition and enhances wheat growth, chlorophyll contents, and yield." *ACS Omega* 8, no. 36 (2023): 32372-32381. **(Impact Factor 4.1)**.
28. Minhas Asif\*, Malik Safdar, Malik Safdar Saeed, Abdullah Ehsan, **Rana Khalid Iqbal\*** et al. (2024). Response of integrated use of humic acid and chemical fertilizer on growth and yield of rice crop (*Oryza sativa* L.) in calcareous soil. *Pak. J. Bot*, 56, 3. **(Impact Factor 1.2)**.
29. Ijaz Maryam†, Chien-Chin Chen†, **Rana Khalid Iqbal†**, Hafiza Aneela Farooq, Rubaida Mehmood, Muhammad Asif, Atif Akbar et al. "Genetic polymorphisms in FABP2, CYP2E1, and TP53 genes are potentially associated with colorectal cancer susceptibility." *Scientific Reports* 14, no. 1 (2024): 1-10. **(Impact Factor 4.6)**
30. Schatz-Daas†, D., Weber-Lotfi, F., Le Blevenec, A., Moratti, F., Mercier, P., **Rana Khalid Iqbal†** & Gualberto, J. M. (2024). R-Loop control and mitochondria genome stability requires the 5'-3'exonuclease/flap-endonuclease OEX1. *bioRxiv*, 2024-11.

#### Articoli su riviste

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<b>Atti di convegni</b>
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Gene bank Submission

1. <https://www.ncbi.nlm.nih.gov/nuccore/MW885251.1>
- *Toxoplasma gondii* isolate 18 internal transcribed spacer 1, partial sequence
2. <https://www.ncbi.nlm.nih.gov/nuccore/MW885250.1>
- *Toxoplasma gondii* isolate 67 internal transcribed spacer 1, partial sequence
3. <https://www.ncbi.nlm.nih.gov/nuccore/MW885249.1>
- *Toxoplasma gondii* isolate 87 internal transcribed spacer 1, partial sequence
4. <https://www.ncbi.nlm.nih.gov/nuccore/MW374294.1>
- *Toxoplasma gondii* isolate 197 internal transcribed spacer 1, partial sequence
5. <https://www.ncbi.nlm.nih.gov/nuccore/MW374293.1>
- *Toxoplasma gondii* isolate 159 internal transcribed spacer 1, partial sequence
6. <https://www.ncbi.nlm.nih.gov/nuccore/MW374090.1>
- *Toxoplasma gondii* isolate 05 internal transcribed spacer 1, partial sequence
7. <https://www.ncbi.nlm.nih.gov/nuccore/MW374089.1>
- *Toxoplasma gondii* isolate 01 internal transcribed spacer 1, partial sequence
8. <https://www.ncbi.nlm.nih.gov/nuccore/OL461228.1>
- *Toxoplasma gondii* isolate goat01 internal transcribed spacer 1, partial sequence
9. <https://www.ncbi.nlm.nih.gov/nuccore/OL461229.1>
- *Toxoplasma gondii* isolate goat 05 internal transcribed spacer 1, partial sequence
10. <https://www.ncbi.nlm.nih.gov/nuccore/MW759702.1>
- *Anaplasma marginale* clone 03 major surface protein 5-like (msp5) gene, partial sequence
11. <https://www.ncbi.nlm.nih.gov/nuccore/MW759703.1>
- *Anaplasma marginale* clone 67 major surface protein 5-like (msp5) gene, partial sequences
12. <https://www.ncbi.nlm.nih.gov/nuccore/MW759704.1>
- *Anaplasma marginale* clone 67 major surface protein 5-like (msp5) gene, partial sequences
13. <https://www.ncbi.nlm.nih.gov/nuccore/MW759701.1>
- *Anaplasma marginale* clone 101 major surface protein 5-like (msp5) gene, partial sequence.
14. <https://www.ncbi.nlm.nih.gov/nuccore/PP719440>
- *Theileria lestoquardi* isolate Pak-68 merozoite surface protein gene, partial cds.
15. <https://www.ncbi.nlm.nih.gov/nuccore/PP719441>
- *Theileria lestoquardi* isolate Pak-DS3 merozoite surface protein gene, partial cds.
16. <https://www.ncbi.nlm.nih.gov/nuccore/PP719442>
- *Theileria lestoquardi* isolate Pak-06 merozoite surface protein gene, partial cds.

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.





RICORDIAMO che i curricula **SARANNO RESI PUBBLICI** sul sito di Ateneo e pertanto si prega di non inserire dati sensibili e personali. Il presente modello è già precostruito per soddisfare la necessità di pubblicazione senza dati sensibili.

Si prega pertanto di **NON FIRMARE** il presente modello.

Luogo e data: \_\_\_\_\_04/12/2024\_\_\_\_\_, \_\_\_\_\_