

CURRICULUM VITAE**1. General Introduction**

Dr. Muhammad Yasin	drmywazir-biotech@gu.edu.pk yasinbiotech@hotmail.com
Father's Name	Khan Bahadar
Date of birth	5 th April, 1980
Religion	Islam
Marital status	Married
Nationality	Pakistani
C.N.I.C. Number	21708-5542570-5
Phone Numbers	Mobile: 0092-0333-9857908 WhatsApp: 0092-0344-9389473
Postal Address	Dr. Muhammad Yasin Assistant Professor, Gomal Centre of Biochemistry & Biotechnology (GCBB), Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa (Pakistan)
Permanent Address	X-FATA (South Waziristan Tribal District), Wana (Kari Kot), Khyber Pakhtunkhwa (Pakistan)
Domicile	Tehsil Wana, X-FATA (South Waziristan Tribal District), Khyber Pakhtunkhwa (Pakistan)
Languages	English, Urdu, Pashto

2. Academics

HEC Approved Supervisor → Yes			
Qualifications Degree/Certificate	Year	Disciplines	Institutions/Board
DOCTOR OF PHILOSOPHY (PhD)	2022	Plant Genomics and Biotechnology (PGB)	PARC Institute of Advanced Studies in Agriculture (PIASA), NARC Islamabad, The University of Agriculture, Peshawar, Khyber Pakhtunkhwa (Pakistan)
MASTER OF PHILOSOPHY (MPhil)	2006	Biotechnology	Quaid-I-Azam University Islamabad, (Pakistan)
BACHELOR OF SCIENCE (Hons) (Agriculture)	2003	Plant Breeding and Genetics (PBG)	N.W.F.P. Agricultural University Peshawar, (Pakistan)
Higher Secondary School Certificate (HSSC), Intermediate (Pre- Medical)	1999	Biology, Chemistry, Physics	Board of Intermediate and Secondary Education (BISE), Bannu, N.W.F.P. (Pakistan)
Secondary School Certificate (SSC), Matric (Science)	1996	Biology, Chemistry, Physics.	Board of Intermediate and Secondary Education (BISE), Bannu, N.W.F.P. (Pakistan)

3. **PhD Practical Skills**

❖ **2015-2018:** PhD scholar at Department of Plant Genomics and Biotechnology, PARC Institute of Advanced Studies in Agriculture (PIASA), National Agricultural Research Centre (NARC) Islamabad, Pakistan.

❖ **Project aim:** “SEQUENCE AND EXPRESSION ANALYSES OF SHATTERING CASCADE GENES IN CANOLA (*Brassica napus* L.)”

❖ **Techniques Used:**

• Designing of the primers	• RNA extracted by using the Trizole reagent
• National Center for Biotechnology Information (NCBI) database	• Standard PCR
• Competent cells preparation and Plasmid isolation	• Restriction digestion
• Mac-Vector 7.2 and Bio-Edit tools	• ClustalW alignments
• Phylogenetic re-construction	• MEGA6 soft ware
• Semi-quantitative and quantitative RT-PCR analysis	• Genomics loci analysis
• Dot plot analysis by PipMaker program	• JASPAR 2016, MULAN and TRANSFAC databases

4. **MPhil Practical Skills**

❖ **2004-2006:** MPhil scholar at Department of Biotechnology, Quaid-I-Azam University, Islamabad, Pakistan.

❖ **Project aim:** “Use of Micro-organisms for the Treatment of Trinitrotoluene (TNT) containing Effluents/Sludge”.

❖ **Techniques Used:**

• Biodegradation of toxic compound in waste water/sludge	• DNA extraction from plants
• Plasmid DNA extraction from bacteria	• UV Spectrophotometry, Electron Microscopy and HPLC
• Identification, Isolation and Preservation of Micro Organisms	• Preparation and Digestion of Plasmid DNA.
• Tissue Culture Techniques and Preparation of Callus and Cell Suspension Culture	• Centrifugation and Chromatography

5. **BSc (Hons) Agriculture Theoretical & Practical Knowledge**

a). **Agriculture Course Work:**

- ❖ *Major:* Plant Breeding and Genetics
- ❖ Plant Breeding, Cell Biology, Genetics, Biostatistics, Biotechnology, Principles of Genetics, Population Genetics, Cytogenetics, Breeding Field Crops, Crop Physiology... etc.

b). **Agriculture Research Work:**

- ❖ Special Problem (Screening of maize varieties for yield and yield components)
- ❖ Seminar (Screening of maize varieties for yield and yield components)
- ❖ Review Paper (Polyploidy and crop improvement)

6. **Field of Interest:**

- ❖ Genes, Genetics, Plant Breeding, Biodegradation, Plant Genomics and Biotechnology

7. **Research Publications & Abstract Book**

A). **International Research publications:**

S. No	Research Paper Details → Cumulative Impact Factor = (34.635)
01	<p>Zinc solubilizing bacteria synergize the effect of zinc sulfate on growth, yield and grain zinc content of rice (<i>Oryza sativa</i>)</p> <p>Authors: Muhammad Shakeel^{1,2} · Fauzia Yusuf Hafeez² · Imran Riaz Malik³ · Abdur Rauf⁴ · Farooq Jan⁴ · Ikramullah Khan⁴ · Iram Ijaz⁵ · Mohamed Farouk Elsadek⁶ · Muhammad Ajmal Ali⁷ · Kamran Rashid⁸ · Muhammad Muzammal¹ · Muhammad Munir⁹ · Nasr Ullah Khan¹⁰ · Muhammad Mohibullah¹⁰ · Muhammad Yasin^{1*}</p> <p>Journal: Cereal Research Communications https://doi.org/10.1007/s42976-023-00439-6 Published: 14 Sept 2023 HJRS Category: (X) Impact Factor: (1.6)</p>
02	<p>DYNAMICS OF LEAD TOLERANCE IN TOBACCO (<i>NICOTIANA TABACUM</i> L.) GENOTYPES</p> <p>Authors: M.M. HUSSAIN¹, A. SAEED², M. SHAKEEL³, A. RAUF⁴, S. GUL⁵, M. MOHIBULLAH⁶, M. MUNIR⁷, I. KHAN⁴, and M. YASIN^{3*}</p> <p>Journal: SABRAO Journal of Breeding and Genetics 55 (4) 1321-1331, 2023 Published: August 2023 HJRS Category: (X) Impact Factor: (1.414)</p>
03	<p>Sustainable remediation of dye-contaminated wastewater using novel cross-linked Hex-CCP-co-PPT microspheres.</p> <p>Authors: Sahid Mehmood ^{a,1}, Fazal Haq ^{b,1}, Mehwish Kiran ^c, Ibrahim A. Shaaban ^d, Mohammed A. Assiri ^d, Muhammad Haroon ^e, Muhammad Yasin ^f, Arshad Farid ^{f,**}, Alam Nawaz ^{g,*}, Majid Majeed Akbar ^h, Zeinhom M. El-Bahy ^{i,***}</p>

	<p>Journal: Chemosphere 339 (2023) 139637 Published: July 2023 HJRS Category: (W) Impact Factor: (8.8)</p>
04	<p>GENOME-WIDE ANALYSES OF CORE REGULATORY MODULE SHATTERING CASCADE GENES IN CANOLA (<i>BRASSICA NAPUS</i> L.) Authors: M. YASIN^{1, 2*}, G.M. ALI³, M. RIAZ⁴, S. ALI³, H.U. RAHMAN⁵, A. IQBAL⁶, S.U. KHAN⁷, M. SHAKEEL¹, M. MUNIR⁸, M. MOHIBULLAH⁹, and M.R. KHAN^{2,3} Journal: SABRAO Journal of Breeding and Genetics 55 (3) 681-694, 2023 Published: June 2023 HJRS Category: (X) Impact Factor: (1.414)</p>
05	<p>SERRATIA MARCESCENS STRAIN FA-4 ENHANCES ZINC CONTENT IN RICE GRAINS BY ACTIVATING THE ZINC TRANSLOCATING ENZYMES Authors: M. SHAKEEL^{1,2}, F.Y. HAFEEZ², I.R. MALIK³, A. FARID¹, H. ULLAH¹, I. AHMED¹, H. GUL⁴, M. MOHIBULLAH⁵, and M. YASIN^{1*} Journal: SABRAO Journal of Breeding and Genetics 55 (2) 495-507, 2023 Published: April 2023 HJRS Category: (X) Impact Factor: (1.414)</p>
06	<p>Formulation development and optimization of herbo synthetic gel: <i>In vitro</i> biological evaluation and <i>in vivo</i> wound healing studies Authors: Mehak Hayat ^a, Asif Nawaz ^b, Sampath Chinnam ^c, Muhammad Muzammal ^a, Muhammad Shahid Latif ^b, Muhammad Yasin ^a, Sumel Ashique ^d, Gokhan Zengin ^e, *Arshad Farid ^a, * Journal: Process Biochemistry 130 (2023) 116–126 Published: 13 April 2023 HJRS Category: (W) Impact Factor: (4.885)</p>
07	<p>Molecular Modeling Study of Novel Lancifolamide Bioactive Molecule as An Inhibitor of Acetylcholinesterase (AChE), Herpes Simplex Virus (HSV-1), and Anti-proliferative Proteins Authors: Malik Saadullah¹, *Arshad Farid^{2*}, Asad Ali ¹, Muhammad Rashad¹, Faiza Naseem³, Sheikh Abdur Rashid³, Shakira Ghazanfar⁴, Muhammad Yasin², Nosheen Akhtar⁵, Mohammed S. Almuhayawi⁶, * Mohammed H. Alruhaili ⁶ and Samy Selim ⁷, * Journal: Molecules 2022, 27, 5480, p. 1 -16 Published: 26 August 2022 HJRS Category: (W) Impact Factor: (4.927)</p>
08	<p>Genome-wide identification, phylogeny, and expression profiling analysis of shattering genes in rapeseed and mustard plants Authors: Mahideen Afridi^{1*†}, Khurshid Ahmad^{2†}, Shahana Seher Malik³, Nazia Rehman⁴, Muhammad Yasin⁴, Shujaul Mulk Khan⁵, Adil Hussain⁶ and Muhammad Ramzan Khan^{1,4} Journal: Journal of Genetic Engineering and Biotechnology (JGEB) 20:124, p. 1-12, Published: 18 August 2022. HJRS Category: (N.A but Springer) Impact Factor: (3.818)</p>

09	<p>Haemagglutination and Antibacterial activities of <i>Strobilanthes urticifolia</i> Wall. Ex Kuntze.</p> <p>Authors: Arshad Farid¹, Bashir Ahmad^{*1}, Muhammad Yasin², Fazal Haq³, Muhammad Bilal Khan⁴, Shafiullah Khan³</p> <p>Journal: International Journal of Biosciences (IJB) Vol. 11, No. 4, p. 35-40,</p> <p>Published: October 8, 2017.</p> <p>HJRS Category: (N.A)</p> <p>Impact Factor: (0.553)</p>
10	<p>Comparative study of biological activity of glutathione, sodium tungstate and glutathione- tungstate mixture.</p> <p>Authors: Arshad Farid^{1*}, Abdul Haleem Shah², Muhammad Ayaz¹, Adnan Amin¹, Muhammad Yasin¹, Hafeez Ullah¹ and Fazal Haq¹</p> <p>Journal: African Journal of Biotechnology Vol. 11 (45), pp. 10431-10437,</p> <p>Published: 5 June, 2012</p> <p>HJRS Category: (N.A)</p> <p>Impact Factor: (0.57)</p>
11	<p>Physical adsorption immobilization of antimicrobial peptide (bacitracin) producing bacillus strain GU215 on Polystyrene film</p> <p>Authors: Adnan Amin^{1*}, Muhammad Ayaz Khan¹, Ali Zaman³, Abdul Haleem Shah⁴, Uzma Haroon², Sheikh Muhammad Farooq Azam² and Muhammad Yasin¹</p> <p>Journal: African Journal of Microbiology Research Vol. 5 (27), pp. 4845-4849,</p> <p>Published: 23 November, 2011.</p> <p>HJRS Category: (N.A)</p> <p>Impact Factor: (0.54)</p>

B). National Research publications:

S. No	Research Paper Details → Cumulative Impact Factor = (34.635)
01	<p>Effect of Meteorological Factors on the Concentration of Allergenic Pollen Grains in the Atmosphere of Capital Territory Islamabad, Pakistan</p> <p>Authors: Farooq Jan^{1*}, Abdur Rauf¹, Ikramullah Khan¹, Muhammad Yasin², Muhammad Qayash³, Hazrat Wali¹, Muhammad Luqman¹, Fayaz Asad⁴ and Muhammad Khalid⁵</p> <p>Journal: <i>Pakistan Journal of Weed Science Research</i>, 29(2): 122-137.</p> <p>Published: June 2023</p> <p>HJRS Category: (Y)</p> <p>Impact Factor: (1.31)</p>
02	<p>Comparative Performance of Diverse Advanced Wheat Genotypes in Response to Different Sowing Times</p> <p>Authors: Abdur Rauf^{1*}, Muhammad Jawad¹, Farooq Jan¹, Muhammad Qayash², Muhammad Yasin⁴, Samrin Gul⁵, Wisal Khan³, Ikramullah Khan¹, Farkhanda Bibi¹, Wajid Khan⁶, Tanweer Kumar⁶, Muhammad Arif⁶ and Khilwat Afridi⁷</p> <p>Journal: <i>Pakistan Journal of Weed Science Research</i>, 29(2): 72-80</p> <p>Published: June 2023</p> <p>HJRS Category: (Y)</p> <p>Impact Factor: (1.31)</p>
03	<p>Prevalence of type2 diabetes, its associated complications and risk factors in District Dera Ismail Khan-Pakistan</p> <p>Authors: Gohar Abbas¹, Hadia Gul¹, Muhammad Shakeel², Hafiz Ullah², Iftikhar Ahmed², Muhammad Mohibullah Khan³ and Muhammad Yasin^{2*}</p>

	<p>Journal: Pure Appl. Biol., 12(2):1111-1119, Published: June, 2023 HJRS Category: (Y) Impact Factor: (HEC Recognized)</p>
04	<p>EFFECTS OF CADMIUM STRESS ON MORPHOLOGICAL PARAMETERS IN DIFFERENT TOMATO (<i>SOLANUM LYCOPERSICUM</i> L) GENOTYPES Authors: MUHAMMAD MAZHAR HUSSAIN¹, ASIF SAEED², MUHAMMAD YASIN³, FAQIHA-TUL-JANNAT⁴, GHULAM MUHAMMAD⁵ AND SAMIULLAH KHAN⁶ Journal: Pakistan Journal of Botany, <i>Pak. J. Bot.</i>, 55(3): 865-872, 2023. Published: 2023 HJRS Category: (X) Impact Factor: (1.101)</p>
05	<p>Expression Pattern Analysis of Core Regulatory Module <i>SHPs-FUL</i> Transcripts in Rapeseed Pod Shattering. Authors: Muhammad Yasin¹, Romana Shahzadi¹, Muhammad Riaz², Mahideen Afridi², Wajya Ajmal³, Obaid Ur Rehman², Nazia Rehman³, Ghulam Muhammad Ali^{1,3}, Muhammad Ramzan Khan^{1,2,3*} Journal: Sarhad Journal of Agriculture, 35(3): 696-707. Published: June 20, 2019 HJRS Category: (X) Impact Factor: (HEC Recognized)</p>
06	<p>Genetic Transformation of Sugarcane Variety HSF-240 with Marker Gene <i>GUS</i> Authors: Sabaz Ali Khan^{1,2,3*}, Zahid Hanif⁵, Usman Irshad³, Rafiq Ahmad³, Muhammad Yasin⁴, Muhammad Fayyaz Chaudhary², Amber Afroz⁶, Muhammad Tariq Javed⁷, Umer Rashid⁶ and Hamid Rashid^{1,8} Journal: INTERNATIONAL JOURNAL OF AGRICULTURE & BIOLOGY, 13S-035/2013/15-6-1258-1264 Published: 2013 HJRS Category: (Y) Impact Factor: (0.808)</p>
07	<p>Use of microorganisms for the treatment of Trinitrotoluene (TNT) containing Effluents Authors: MUHAMMAD YASIN, AAMER ALI SHAH*, ABDUL HAMEED, SAFIA AHMAD AND FARIHA HASAN Journal: Chemical Society of Pakistan. [Chem.Soc.Pak.], vol.30, No. 3, 2008. Published: 2008 HJRS Category: (Y) Impact Factor: (1.377)</p>

C). Book Abstract:

S. No	Title of Book Abstract Detail → Cumulative Impact Factor = (34.635)
01	<p>PARASITIC-INDUCED PATHOGENS AND PLANT-RESPONSE: INSIGHTS ON THE VEGETABLE CROPS FROM MORPHOLOGY TO MOLECULAR BIOLOGY. Authors: Amber Imtiaz, Rafaqat Ali Gill, Muhammad Mazhar Hussain and Muhammad Yasin. Conference: 1st International and 2nd National Conference on “Challenges and opportunities to Boost Agriculture in Changing Climate” March 26-28, 2018. College of Agriculture, Bahauddin Zakariya University, Bahadur Sub-Campus, Layyah, Punjab, Pakistan.</p>

8. Experiences

A. Teaching & Research Experience				
Period served From---To	Designation	Regular/Contract	Disciplines	Institutions/Labs
April 7, 2014 to-date	Assistant Professor	Regular	Biotechnology	Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa (Pakistan)
Dec 4, 2008 - April 6, 2014	Lecturer	Regular	Biotechnology	Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa (Pakistan)
Sept 3, 2007 - Dec 3, 2008	Lecturer	Contract	Biotechnology	Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa (Pakistan)
B. Pharmaceutical Experience				
May 8, 2006 - August 31, 2007	Quality Control Officer	Contract	Pharmacy (Quality Control Unit)	Navegal Laboratories (Pharma Division), Industrial Estate Hattar (Pakistan).
April 1 st 2006 - May 7, 2006	Quality Control Officer	Internship	Pharmacy (Quality Control Unit)	Sanofi Aventis, G.T. Road, Wah Cantt (Pakistan).
C. Trainee Experience				
2004-2006	Junior Research Assistant	Trainee	Microbiology (Biotechnology)	Quaid-i-Azam University, Islamabad (Pakistan)

9. Students Research Supervision

a). BS Research Students Supervised				
Supervised BS-Biotechnology students on different Research Topics in Gomal Centre of Biochemistry & Biotechnology (GCBB), Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa (Pakistan).				
b). MS/M.Phil. Research Students Supervised				
Registration #	Session	Student Name	Research Topic	Institutions
MS160200261	2016-2018	Bushra Rashid	Sensitivity of ELISA for Hepatitis C virus identification in serum and comparison of ELISA Technique with ICT Method	Biotechnology department, Virtual University of Pakistan, Lahore, (Pakistan)

239-GCBB-11	2016-2018	Shams-ud- Din	Impact of MgO nanoparticles on the growth and development of wheat seeds.	GCBB, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa (Pak)
-------------	-----------	---------------	---	--

10. **Administrative Experience**

Period served From---To	Administrative Experience	Institution
Oct 4, 2019 till to date	Member of “Departmental Audit Committee”	Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa (Pakistan)
Oct 4, 2007 - March 2015	Remained member of “Departmental Admissions Committee”	-do-
Nov 1, 2007 - March 2015	Remained member of “Departmental Audit Committee”	-do-
Jan 1 st , 2011 - March 2015	Remained member of “Departmental Board of Study”	-do-
April 24, 2009 - March 2015	Worked as a “Internal Controller of Examination” as well as “Exam Conduction Officer” in GCBB	-do-
2008 - 2014	I being the Acting Director on many occasions in absence of Director in GCBB	-do-
2010 - 2012, 2019 - 2021	Remained Staff Proctor in GCBB	-do-
2010- 2011	Remained Executive member of GUASA	-do-

11. **Training courses, seminar and workshops Attended**

1. Participated in national workshop on “BASIC TOOLS IN BIOINFORMATICS” held on 29th November 2017 organized by Institute of Industrial Biotechnology, GC University Lahore (Pakistan).
2. Participated in the 3rd International Conference on “AGRICULTURE, FOOD SECURITY AND BIOTECHNOLOGY” April 26th - 27th, 2017 Islamabad, Pakistan.
3. Participated in a 2-day national Seminar on “LANGUAGE OF LITERATURE FOR PEACE AND TOLERANCE” at Gomal University, Dera Ismail Khan, organised by Department of English Language & Literature, Gomal University, D.I.Khan in collaboration with Learning Innovation Division, ELTR, HEC on Thursday-Friday, February 7-8, 2013.
4. Participated in one day workshop on “Problems Related to Sugar Industries” held on 08-03-2011 at Department of chemistry, Gomal University, Dera Ismail Khan, under the auspices of National Core Group in Chemistry (Pakistan).
5. Participated in one day Seminar/Conference Title “Water for cities: Responding to the Urban Challenge” on World Water Day 22nd March, 2011 organised by Faculty of Agriculture, Gomal University, Dera Ismail Khan, Sponsored by Higher Education Commission, Islamabad (Pakistan).

6. Participated in “Professional Competency Enhancement Program for Teachers (PCEPT)” (Nov 01 to Dec 06, 2010) at Gomal University, Dera Ismail Khan, awards by National Academy of Higher Education (Pakistan).
7. Participated in “Two weeks I.T Training” (from 1st to 15th March, 2010) held at Institute of Computing & Information Technology, Gomal University, Dera Ismail Khan (Pakistan).
8. Participated in 2 days Training Workshop on “BioSand Water Filter” (09-10th Feb, 2010) at Faculty of Agriculture, Gomal University, Dera Ismail Khan (Pakistan).
9. Participated in 36th Postgraduate Training Course on “Nuclear and Other Advanced Techniques in Agricultural and Biological Research” (Nov 10-21, 2008) at Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad (Pakistan).
10. Participated in 4th National Training Course on “Integration of Biotechnological tools with conventional system of plant genetic improvement” (April 21-26, 2008) in University of Agriculture, Faisalabad (Pakistan).
11. Participated in 2nd National Workshop, Nov 12, 2007 on “Biotechnological Techniques for Welfare of Human Being” in Gomal University, Dera Ismail Khan (Pakistan).

12. *Computer Skills*

- ❖ Internet
- ❖ MS-Office
- ❖ Two weeks I.T Training

13. *Sports*

- ❖ Member of Department Cricket Team
- ❖ Football

14. **References**

❖ Dr. Badshah Jan Wazir

Cardiologist:

MD, FACC, 118 East Ridge Road, Charleston,
West Virginia, 25314 USA,
Mobile: +1-304-541-3826
E-mail: bjwazir@mac.com

❖ Dr. Samiullah Khan

Associate Professor:

Institute of Molecular Biology and Biotechnology (IMBB), University of Lahore, Punjab
(Pakistan).
Telephone (Office): 0092-42-32300865
Mobile: 0092-0336-7228768
E-mail: samiullah.khan@imbb.uol.edu.pk

❖ Dr. Arshad Farid

Assistant Professor: Gomal Centre of Biochemistry & Biotechnology (GCBB),
Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa (Pakistan).
Telephone (Office): 0092-0966-750424-9 (Ext: 3058)
(Office): 0092-0966-750131(Direct)
Mobile: 0092-322-9821767
E-mail: arshadfarid@gu.edu.pk