



Father's Name:
Manzoor Ali

Current Position:
Student

Date of Birth:
02-5-1992

Gender:
Male

Marital Status:
Single

Religion:
Islam

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Dr. Muhammad Waheed Iqbal

Profile:

- A dynamic, hands on Food Technologist and Agriculturist who is results driven, motivated, able to work under pressure with minimum supervision and is willing to join an organization that will afford him the chance to apply learnt skills and continue to develop into a world class Researcher/Scientist/Professional.

Professional Education:

- Postdoctoral researcher in Food Science and Engineering**
School of Food and Biological Engineering, Jiangsu University,
301 Xuefu Road, Zhenjiang 212013, China (**continue**)
- Ph.D. Food Science and Engineering**
Jiangnan University, Wuxi, Jiangsu, 214122, China (**2016 to June, 2020**)
(Marks 90%)
- M.Sc. (Hons.) Food Technology**
National Institute of Food Science & Technology (NIFSAT)
University of Agriculture, Faisalabad. **2015**
CGPA 3.30/4.00
- PGDC (Post Graduate Diploma Course) Food Safety and Control**
Accredited by the Royal Environmental Health Institute of Scotland
National Institute of Food Science & Technology (NIFSAT)
University of Agriculture, Faisalabad. **2014.**
CGPA 3.55/4.00
- B.Sc. (Hons.) Food Science and Technology**
National Institute of Food Science & Technology (NIFSAT)
University of Agriculture, Faisalabad. **2013**
CGPA 3.12/4.00
- F. Sc. (Pre-Medical)**
Board of Intermediate & Secondary Education, Faisalabad. **2009**
829/1100=75.37%
- Matriculation**
Board of Intermediate & Secondary Education, Faisalabad. **2007**
756/850= 89%

Professional Experience:

- 6-month** Internship experience in **DOCE FOODS (Bakery and Sweets)** Lahore
 - Department:** Quality Control Lab.
 - Responsibilities:** Worked as Lab analyst in Quality Control Lab & Microbiology Lab
- Working from **1.5 Year** as a **Senior Chemist** in Beverage Plant of **Gourmet Five Star Foods.**
 - Department:** Quality Control Lab. (Syrup Room Incharge)
 - Responsibilities:** Worked as Lab analyst in Quality Control Lab & Microbiology Lab
- 3 Month Bakery** Experience in **Farm Fresh University of Agriculture Faisalabad.**
 - Department:** Quality Control Lab.
- 6-month youth internship**

5. **8-Months Experience as an Incharge of Quality Control laboratory in Ashraf Laboratories, Faisalabad.**

Publication:

International:

- **Iqbal, M.W.**, Riaz, T., Hassanin, H.A., Ni, D., Khan, I.M., Rehman, A., Mahmood, S., Adnan, M., Mu, W. 2019. Characterization of a novel D-arabinose isomerase from *Thermanaeromonas toyohensis* and its application for the production of D-ribulose and L-fuculose. *Enzyme and Microbial Technology*, 109427. DOI: [10.1016/j.enzmictec.2019.109427](https://doi.org/10.1016/j.enzmictec.2019.109427)
- **Iqbal, M.W.**, Riaz, T., Hassanin, H.A., Zhang, W., Saeed, M., Mahmood, S., Abdalla, M., Mu, W. 2020. Biochemical characterization of recombinant L-fucose isomerase from *Caldanaerobius polysaccharolyticus* for L-fucose production. *International Journal of Biological Macromolecules*. 146(2020), 965-975. DOI: [10.1016/j.ijbiomac.2019.09.221](https://doi.org/10.1016/j.ijbiomac.2019.09.221)
- **Iqbal, M.W.**, Mu, W., Khan, I.M., Mohsin, A. 2017. Development of Probiotic Soft Cheese with *Lactobacillus casei* as Adjunct Culture. *Journal of Academia and Industrial Research (JAIR)*, 6(1), 1.
- **Iqbal, M.W.**, Riaz, T., M., Mahmood, Ali., K., Khan, I.M., Rehman, A., Wenli, Z., M., Mu, W. 2020. A review on selective l-fucose/d-arabinose isomerases for biocatalytic production of l-fucose/d-ribulose. *International Journal of Biological Macromolecules*. (2020). DOI: [10.1016/j.ijbiomac.2020.12.021](https://doi.org/10.1016/j.ijbiomac.2020.12.021)
- Mahmood, S., **Iqbal, M.W.**, Riaz, T., Hassanin, H.A., Zhu, Y., Ni, D., Mu, W. 2019. Characterization of a recombinant L-ribose isomerase from *Mycetocola miduiensis* and its application for the production of L-ribulose. *Enzyme and Microbial Technology*. DOI: [10.1016/j.enzmictec.2020.109510](https://doi.org/10.1016/j.enzmictec.2020.109510)
- Mahmood, S., **Iqbal, M.W.**, Riaz, T., Zhang, W., Mu, W. 2020. Characterization of recombinant L-ribose isomerase acquired from *Cryobacterium* sp. N21 with potential application in L-ribulose production. *Process biochemistry*. 97 (2020) 1–10. <https://doi.org/10.1016/j.procbio.2020.06.014>
- Riaz, T., **Iqbal, M.W.**, Saeed, M., Yasmin, I., Hassanin, H.A., Mahmood, S., Rehman, A. 2019. In vitro survival of *Bifidobacterium bifidum* microencapsulated in zein-coated alginate hydrogel microbeads. *Journal of microencapsulation*, 36(2), 192-203. DOI: [10.1080/02652048.2019.1618403](https://doi.org/10.1080/02652048.2019.1618403)
- Khan, I.M., Niazi, S., Khan, M.K.I., Pasha, I., Mohsin, A., Haider, J., **Iqbal, M.W.**, Rehman, A., Yue, L., Wang, Z. 2019. Recent Advances and Perspectives of AIE as an Emerging Platform for Detection and Bioimaging. *TrAC Trends in Analytical Chemistry*, 115637. DOI: [10.1016/j.trac.2019.115637](https://doi.org/10.1016/j.trac.2019.115637)
- Khan, I.M., Niazi, S., Yu, Y., Mohsin, A., Mushtaq, B.S., **Iqbal, M.W.**, Rehman, A., Akhtar, W., Wang, Z. 2019. Aptamer Induced Multicolored AuNCs-WS2 “Turn on” FRET Nano Platform for Dual-Color Simultaneous Detection of AflatoxinB1 and Zearalenone. *Analytical chemistry*, 91(21), 14085-14092. DOI: [10.1021/acs.analchem.9b03880](https://doi.org/10.1021/acs.analchem.9b03880)
- Khan, I.M., Niazi, S., Yu, Y., Pasha, I., Yue, L., Mohsin, A., Shoaib, M., **Iqbal, M.W.**, Khaliq, A., Wang, Z. 2020. Dual-mode label-free FRET assembly of spherical AuNCs-aggregate-PAA-nanoparticles and PDDA-aggregated gold nanoparticles for specific recognition of T-2 toxin. *Sensors and actuators B: Chemical*. 321 (2020) 128470. <https://doi.org/10.1016/j.snb.2020.128470>
- Rehman, A., Tong, Q., Jafari, S.M., Assadpour, E., Shehzad, Q., Aadil, R.M., **Iqbal, M.W.**, Rashed, M.M., Mushtaq, B.S., Ashraf, W. 2019. Carotenoid-loaded nanocarriers: A comprehensive review. *Advances in colloid and interface science*, 102048. DOI: [10.1016/j.cis.2019.102048](https://doi.org/10.1016/j.cis.2019.102048)
- Rehman, A., Jafari, S.M., Tong, Q., Karim, A., Mahdi, A.A., **Iqbal, M.W.**, Aadil, R.M., Ali, A., Manzoor, F.M. 2020. Role of peppermint oil in improving the oxidative stability and antioxidant capacity of borage seed oil-loaded nanoemulsions fabricated by modified starch. *International Journal of Biological Macromolecules*. 0141-8130. DOI: [10.1016/j.ijbiomac.2020.02.292](https://doi.org/10.1016/j.ijbiomac.2020.02.292)
- H. Yasin, F. Tariq, A. Sameen, N. Ahmad, M.F. Manzoor, M. Yasin, T. Tariq, **M.W. Iqbal**, B. Ishfaq, S. Mahmood, Ethanolic extract of okra has a potential gastroprotective effect on acute gastric lesions in Sprague Dawley rats, *Food Science & Nutrition*. DOI: [10.1002/fsn3.1963](https://doi.org/10.1002/fsn3.1963)
- M.A. SHABBIR, H. AHMED, A.A. MAAN, A. REHMAN, M.T. AFRAZ, **M.W. IQBAL**, I.M. KHAN, R.M. AMIR, W. ASHRAF, M.R. KHAN, Effect of non-thermal processing techniques on pathogenic and spoilage microorganisms of milk and milk products, *Food Science and*

Technology (AHEAD) (2020). <https://doi.org/10.1590/fst.05820>.

- M. Abdalla, H.A. Hassanin, X. Yao, **M. W. Iqbal**, E. Karrar, B. Jiang, Genetic and biochemical characterization of thermophilic β -cyclodextrin glucanotransferase from *Gracilibacillus alcaliphilus* SK51. 001, Journal of the Science of Food and Agriculture (2020). DOI:doi.org/10.1002/jsfa.10960
- H. Yasin, F. Tariq, A. Sameen, N. Ahmad, M.F. Manzoor, M. Yasin, T. Tariq, **M.W. Iqbal**, B. Ishfaq, S. Mahmood, Ethanolic extract of okra has a potential gastroprotective effect on acute gastric lesions in Sprague Dawley rats, Food Science & Nutrition (2020). <https://doi.org/10.1002/fsn3.1963>
- Koko, M.Y.F., Mohammed, K., Hassanin, H.A.M., **Iqbal, M.W.**, Riaz, T., Mu, W. 2018. A Vision: The Biological Production of Mannitol Via Mannitol Dehydrogenase (MtDH). *Biotechnology*, 3(1), 1-7.
- Niazi, S., Khan, I.M., Rasheed, S., Niazi, F., Shoaib, M., Raza, H., **Iqbal, M.W.** An Overview: Date Palm Seed Coffee, a Functional Beverage. *International Journal of Public Health and Health Systems* 2017; 2(2): 18-25.
- Koko, M.Y.F., Hassanin, H.A.M., Letsididi, R., **Iqbal, M.W.**, Zhang, T., Mu, W. 2018. Molecular Modeling and Docking of Mannitol Dehydrogenase Active Site and Residues Involved in the Interaction of D-mannitol. Journal of Academia and Industrial Research (JAIR) Volume 6, Issue 9, February 2018
- Khan, I.M., Shoaib, M., Niazi, S., Raza, H., Mohsin, A., **Iqbal, M.W.**, Rehman, A. WHOLE GRAIN CHAPATTI: SHELF LIFE ENHANCEMENT BY VARIOUS TECHNIQUES AND THEIR IMPACT ON QUALITY. *J. Glob. Innov. Agric. Soc. Sci.* 2017, 5(2): 74-79.
- **Iqbal, M.W.**, Riaz, T., Mahmood, S., Zhu, Y., Ni, D., Khan, I.M., Zhang, W., Mu, W. 2019. Characterization of L-fucose isomerase from *Paenibacillus rhizosphaerae* to produce L-fucose from hydrolyzed fucoidan and commercial fucose. *Enzyme and microbial Technology*. 0141-8130. (Under Review).
- Naeem, M.A., Siddiqi, M., Khan, M., Mushtaq, M., **Iqbal, M.W.**, Wei, Q. 2020. A Preliminary Study about Fabrication and Characterization of Bacterial Cellulose-Banana peel fiber reinforced epoxy nano-composites. *Polymer and Polymer composites. PPC-19-0306. R1* (Minor revision).
- Saeed M., Yasmin, I., Amin, A., Khan, W.A., Afzal, M., **Iqbal, M.W.** 2020. Therapeutic Effect of Chia Seed Oil Based Ice Cream against Coronary Heart Disease: In Vivo Studies. *Asia Pacific Journal of Clinical Nutrition*. (Under review).
- Mahmood, S., Pasha, I., **Iqbal, M.W.**, Riaz, T., Adnan, M., Chitrakar, B., Azam, M., 2019. Rheological and Sensory Attributes of Wheat, Quinoa and Buckwheat Composite Flour and their Use in Bakery Products. *J. Food Sci. Technol. Nepal*, Vol. 11 (25 - 31), 2019 ISSN: 1816-0727. DOI: [10.3126/jfstn.v11i0.29706](https://doi.org/10.3126/jfstn.v11i0.29706)

Abstracts and proceedings

- **Iqbal, M.W.**, M. Saeed, A. Shehzad, A. Mohsin, I. Yasmin, S. Mahmood and I.M. Khan. 2014. Isolation of *Lactobacillus bulgaricus* from home made yoghurt (dahi) and its utilization as probiotic in dairy products. Food festival and international symposium on technological and nutritional aspects of value added dairy products. National Institute of Food Science and Technology, University of Agriculture Faisalabad.
- Mohsin, A., M. Saeed, **M.W. Iqbal**, A. Khalid, S. Mahmood and I.M. Khan. 2015. Alarming situation of malnutrition and food insecurity in tharparker sindh, Pakistan. International Conference on "Malnutrition in South Asia –The Peril Persists". BZ University Multan.
- Saeed, M., **M.W. Iqbal**, A. Mohsin, I. Yasmin, S. Mahmood, M. Azam. 2015. Prevalence of malnutrition under five year age children in Pakistan. International Conference on "Malnutrition in South Asia –The Peril Persists". BZ University Multan.
- Yasmin, I., M. Saeed, I. Pasha, A. Randawa, W. A. Khan, S. Tanweer and **M.W. Iqbal**. 2015. Calcium and vitamin D inadequacy among children 2-5 year of age with stunted growth. International Conference on "Malnutrition in South Asia –The Peril Persists". BZ University Multan.
- Mahmood, S., I. Pasha, **M.W. Iqbal**, A. Mohsin, A. Waqas, M. Azam. 2015. Utilization of quinoa in cookies. International Conference on "Malnutrition in South Asia –The Peril Persists". BZ University Multan.
- Khan, W.A., M. Saeed, M.A. Shabbir, M.R. Khan, I. Yasmin and **M.W. Iqbal**. 2015. Anthropometry in assessment of malnutrition under five and school age children. International Conference on "Malnutrition in South Asia –The Peril Persists". BZ University Multan.
- Yasmin, I., M. Saeed, I. Pasha, W.A. Khan, S. Tanweer, R. Ramzan, A. Ansari and **M.W. Iqbal**. 2015. Lactic acid fermentation of vegetable juices: a review. 25th All Pakistan Food Science Conference and Food Expo held on 16-17th March, 2015 organized by PCSIR

Laboratories Complex, Lahore, Pakistan.

- **Iqbal, M.W.**, M. Saeed, I. Yasmin, A. Mohsin, W.A. Khan, S. Mehmood and S. Yousuf. 2015. Impact of drinking water pollution on human health in Pakistan. 25th All Pakistan Food Science Conference and Food Expo held on 16-17th March, 2015 organized by PCSIR Laboratories Complex, Lahore, Pakistan.
- Khan, W.A., M. Saeed, A. Randawa, M.R. Khan, I. Yasmin, S. Naz, F.J. Chughtai and **M.W. Iqbal**. 2015. Effect of ultrasound treatment on bioaccessibility of lycopene. 25th All Pakistan Food Science Conference and Food Expo held on 16-17th March, 2015 organized by PCSIR Laboratories Complex, Lahore, Pakistan.
- Saeed, M., **M.W. Iqbal**. 2015. The processed un-ripened cheese can account for value addition in goat milk. Technology Times News paper. 5:30-31.
- **Iqbal, M.W.**, M. Saeed, S. Mehmood, I.M. Khan, A. Mohsin, W.A. Khan, I. Yasmin and N. Maqsood. 2015. Development of probiotic goat milk cheese with adjunct culture. International Conference on Opportunities & Challenges in Dairy Industry held on 26, 27 November 2015, organized by National Institute of Food Science and Technology, University of Agriculture, Faisalabad, Pakistan.
- **Iqbal, M.W.**, M. Saeed, S. Mehmood, I.M. Khan, A. Mohsin, W.A. Khan, I. Yasmin and N. Maqsood. 2015. Isolation and characteristics of probiotics in a semi-hard goat cheese and inhibitory effect against pathogenic bacteria. International Conference on Human Nutrition held on 3, 4 November, 2015 organized by University of Veterinary and Animal Sciences, Lahore-Pakistan and Nutritionists Association of Pakistan.
- Yasmin, I., M. Saeed, I. Pasha, W.A. Khan, S. Tanweer and **M.W. Iqbal**. 2015. Development and utilization of vinegar in onion pickle. International Conference on Human Nutrition held on 3, 4 November, 2015 organized by University of Veterinary and Animal Sciences, Lahore-Pakistan and Nutritionists Association of Pakistan.
- Yasmin, I., M. Saeed, I. Pasha, W.A. Khan, S. Tanweer and **M.W. Iqbal**. 2015. Biotechnological potential of apple processing industry. International Seminar on Technical Issues and Challenges to the Fruits and Vegetables Processing Industries in Pakistan and Their Synoptic Solutions held on 26, 27 August 2015, organized by Institute of Food Science and Nutrition, University of Sargodha, Pakistan.
- Khan, W.A., M. Saeed, I. Pasha, M.A. Randhawa, I. Yasmin and **M.W. Iqbal**. 2015. Utilization of citrus peel for biosynthesis of pectinase and its application in food industry. International Seminar on Technical Issues and Challenges to the Fruits and Vegetables Processing Industries in Pakistan and Their Synoptic Solutions held on 26, 27 August 2015, organized by Institute of Food Science and Nutrition, University of Sargodha, Pakistan.
- Yasmin, I., M. Saeed, I. Pasha, W.A. Khan, S. Tanweer, S. Naz and **M.W. Iqbal**. Functional characteristics of stabilizer in ice cream. International Conference on Opportunities & Challenges in Dairy Industry held on 26, 27 November 2015, organized by National Institute of Food Science and Technology, University of Agriculture, Faisalabad, Pakistan.
- **Iqbal, M.W.**, 2017. Avocado is the picnic treatment of cardiovascular diseases (heart attack). Technology Times Newspaper. July 16-22, 2017.
- Ahmed, Afzal and **M.W. Iqbal**, 2017. Konjac Glucomannan: a praising natural material against diseases. Technology Times Newspaper. September, 25-October, 01, 2017.
- **Iqbal, M.W.**, T. Riaz, M. Saeed, S. Mehmood and I. Yasmin. 2019. Enzymatic Production of D-Psicose from D-Fructose by a Thermostable Ketose 3-Epimerase from *Dorea* sp. International Conference on Food processing and Entrepreneurship held on 29, 30 January, 2019 organized by University of Agriculture, Faisalabad, Pakistan.
- Riaz T., **M.W. Iqbal**, M. Saeed, I. Yasmin and H.N. Kiran 2019. Microencapsulation of *Bifidobacterium bifidum* as probiotic culture in ricotta cheese. International Conference on Food processing and Entrepreneurship held on 29, 30 January, 2019 organized by University of Agriculture, Faisalabad, Pakistan.

Certificates:

1. Certificate of Participant in 2nd International conference on Future Perspectives of food processing industries in Pakistan and 2nd Food and Nutrition Expo, December 11-12, 2012. Organized by Department of Food Science Government College University Faisalabad.
2. International Conference on Nutritional Therapies Against Lifecycle Related Disorders 29-30 May, 2014. Organized by National Institute of Food Science and Technology (NIFSAT)
3. Product Development Competition 10 March, 2014. Organized by (NIFSAT).
4. Product Development Competition 29 May, 2014. Organized by (NIFSAT).
5. Human Nutrition and Dietetics Curriculum Review Workshop April 9, 2014.
6. Application of soy Protein in meat Extension, Meat replacement and structuring Technologies May 9, 2014. Organized by (ASA & WISHH)
7. International Conference on Emerging Issues in Nutrition and Food Safety October 21-23, 2013. Organized by (NIFSAT)
8. The society of Food Scientist "Food and Nutrition expo" held in November 14-16, 2011. Organized by (NIFSAT)

9. The society of Food Scientist “Food and Nutrition expo” cultural night participation held in November 14-16, 2011. Organized by (NIFSAT)
10. 100 % merit base laptop award
11. Participation in University Spring Festival Flower Show Exhibition held in March 22 – 26, 2010 Organized by (UAF)
12. Training course on report writing & presentation skills.
13. Training course of endnote usage.
14. Training course on Food safety and control
15. International Symposium on Technological and nutritional aspects of value-added dairy products held in December 12-14, 2014. Organized by National Institute of Food Science and Technology (NIFSAT).
16. Participation in the Dice-Invent the Nation wise Innovation and Entrepreneurship Exhibition and Mega event. DICE-INVENT 2014 held at Institute of Business Administration Karachi (IBA KARACHI) on December 19-20, 2014.
17. Certification of participation in 3rd annual workshop in scientific writing and plagiarism on 20, November, 2014. Organized by the office of the Senior Tutor, University of Agriculture, Faisalabad.
18. International Conference on “Malnutrition in South Asia –The Peril Persists” held on February 23-24, 2015 at BZ University Multan (participation).
19. Two days International Conference on “Malnutrition in South Asia –The Peril Persists” held on February 23-24, 2015 at BZ University Multan (Presenting poster).
20. Two days training workshop on Entrepreneurship Approach in Value added baked products on April 27-28, 2015. Organized by National Institute of Food Science and Technology (NIFSAT).
21. Appreciation certificate for the valuable contributions in organizing NIFSAT ANNUAL Eve. 2015.
22. Certificate of Participant in Pakistan Society of Food Scientist and Technologist silver jubilee 2015, All Pakistan Food Science conference March 16-17, 2015. PCSIR Laboratories Complex Feroz-Pur Road, Lahore.
23. Certificate of Jiangnan University campus marathon 14 km held on 16 November.
24. Certificate of online training course by Alison in Food Safety and Hygiene in the Catering Industry, 9- April-2020.
25. **15- Days online Diploma in Food Safety** by Alison, 2020.
26. Certificate of Coronavirus-What you need to know an online training course by Alison on 8 April, 2020.
27. Certificate of COVID-19: Operational planning guidelines and COVID-19 partners platform to support country preparedness and response by WHO in April-01, 2020
28. Certificate of Severe Acute respiratory infection (SARI) treatment facility design by WHO on April-01, 2020.
29. Certificate of Traceability E-Learning course by Food Standards Agency (UK) in April-9, 2020.
30. Certificate of Food Allergy online training course by Food Standards Agency (UK) in April-8, 2020.

Languages:

- English
- Urdu
- Punjabi
- Chinese

Areas of Expertise:

- Research and development
- Enzyme Characterization
- Rare sugar production
- Product development
- Functional food
- Food analysis
- Raw material management
- Microbial analysis
- Nutritional analysis

Research Interests:

- Food Biotechnology
- Microbial Enzyme Technology
- Food Microbiology
- Dairy Technology
- Carbohydrate polymers

Achievements:

Due to Excellent Educational Background

- Chief Minister Punjab Shehbaz Sharif awarded “Laptop” under the Punjab youth initiative Program.
- Selected for Punjab Youth Internship programme for 6 months
- Prime Minister Pakistan Nawaz Sharif awarded “Laptop” under the Punjab youth initiative Program

Membership:

- The Pakistan Society of Food Scientists and Technologists (PSFST)
- Pakistan Nutrition and dietetic society (PNDP)
- Nutritionists association of Pakistan (NAP)

Personal Skills:

Internet, Books reading, playing football, Badminton, Effective communication, Computer and Technical literacy, Problem-solving/Creativity, Teamwork skills, Diversity sensitivity, Planning and organizing, Leadership and management, Professionalism and work ethic.

Aptitudes:

I express myself well and have a talent for oral communication.

Personal values:

Positive attitude/Behavior and energy, Hard Work, Honest, Adaptability and flexibility.

References:

1. Prof. Dr. Xianghui Qi

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