

Abdur Rahman

Associate Professor

Atta-Ur-Rahman School of Applied Biosciences

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About

Dr. Abdur Rahman is working as Associate Professor in the Atta-Ur-Rahman School of Applied Biosciences. Dr. Abdur Rahman has a PhD in Food Microbiology. Dr. Abdur Rahman has published 27 research articles & conference papers having a citation count of 421, carried out 1 projects and filed 1 intellectual property.

Qualifications

PhD in Food Microbiology Institut National Polytechnique de Lorraine , France	2009 - 2013
MS in Food Microbiology And Biotechnology Institut National Polytechnique de Lorraine , France	2008 - 2009
B.Sc (Hon) in Food Technology Arid Agriculture University , Pakistan	2006 - 2006

Experience

Associate Professor Atta-Ur-Rahman School of Applied Biosciences	2022- Present
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2016 - 2022
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2016 - 2016
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2015 - 2016
Trainee shift incharge Nur Pur Foods, Bhalwal , Nur Pur Foods, Sargodha road, Bhalwal	2006 - 2007

Awards

PhD scholarship MS leading to PhD scholarship for studies in France by HEC
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Research Projects

National Projects	
Assessment of Indigenous Lactobacillus Spp. for Cholesterol Reduction: A Step towards Probiotic Designer Foods	2018
Funding Agency: HEC	
Amount: PKR 2,583,027.00	
Status: Completed	

International Projects

Research Articles

Nature-inspired designing of KLR- and KLS-rich antimicrobial peptides: unleashing the antibiofilm potential of RbP12 against MDR S. aureus and P. aeruginosa	2025
<i>Zeeshan Yaseen Saiqa Aslam Sidra Rahmat Ullah Abdur Rahman Muhammad Bilal Khan Niazi Saadia Andleeb</i>	

Impact Factor: 3.600 | Quartile: 2

DOI: <https://doi.org/10.1093/jac/dkaf079>

Exploring the resistome, virulome, and mobilome of multidrug-resistant *Klebsiella pneumoniae* isolates: deciphering the molecular basis of carbapenem resistance

2024

Sidra Rahmatullah Dr Abdur Rahman Sidra Irum Iqra Mahnoor Humaira Ismatullah Mariam Mumtaz Saadia Andleeb Muhsin Jamal
BMC Genomics, Vol:25, Article number: 408, Pages: 22

Impact Factor: 3.5 | Quartile: 2 | Citations: 7

DOI: [10.1186/s12864-024-10139-y](https://doi.org/10.1186/s12864-024-10139-y)

Potential of milk fat globule membrane's phospholipids and anhydrous milk fat based nanostructured lipid carriers for enhanced bioaccessibility of vitamin D3

2023

Bina Zarif Muhammad Haris Ramla Shahid Tauqir A. Sherazi Abdur Rahman Tayyaba Noor Muhammad Imran
International Dairy Journal, Volume 147, Article Number 105766

Impact Factor: 3.1 | Quartile: 2 | Citations: 6

DOI: <https://doi.org/10.1016/j.idairyj.2023.105766>

Functionalized chitosan based nanotherapeutics to combat emerging antimicrobial resistance in bacterial pathogen

2023

Sadaf Ejaz Saima Ejaz Mahnoor Rahman Ramla Shahid Ayesha Ihsan Saima Shabbir Abdur Rahman Tayyaba Noor Muhammad Imran
Materials Today Communications, Volume 37, Article Number 107050

Impact Factor: 3.8 | Quartile: 2 | Citations: 2

DOI: <https://doi.org/10.1016/j.mtcomm.2023.107050>

Milk phospholipids and buttermilk based composite nanosystems for enhanced stability and bioaccessibility of β -carotene

2023

Bina Zarif Saima Shabbir Abdur Rahman Tauqir A. Sherazi Ramla Shahid Tayyaba Noor Muhammad Imran
International Dairy Journal, Volume 143, Article Number 105668

Impact Factor: 3.572 | Quartile: 2 | Citations: 5

DOI: <https://doi.org/10.1016/j.idairyj.2023.105668>

Comparative Pan-Genomic Analysis Revealed an Improved Multi-Locus Sequence Typing Scheme for *Staphylococcus aureus*

2022

Maira Jalil Fatima Qudoos Farha Anwer Samavi Nasir Abdur Rahman Metab Alharbi Abdulrahman Alshammari Huda Kamel Alshammari Amjad Ali
Genes, Volume 13(11), Article Number 2160

Impact Factor: 4.141 | Quartile: 2 | Citations: 2

DOI: <https://doi.org/10.3390/genes13112160>

Draft genome sequences of 25 *Salmonella enterica* serovar Agona strains isolated from poultry and associated food products harbouring multiple antibiotic resistance genes

2022

Muhammad Abubakar Siddique Nimat Ullah Amjad Ali Ami Patel Terence Moore Sophia M. Kenney Erika Ganda Abdur Rahman
Journal of Global Antimicrobial Resistance, Volume 29, Pages 131-135

Impact Factor: 4.349 | Quartile: 2 | Citations: 6

DOI: <https://doi.org/10.1016/j.jgar.2022.02.013>

In silico designed *Staphylococcus aureus* B-cell multi-epitope vaccine did not elicit antibodies against target antigens suggesting multi-domain approach

2022

Nimat Ullah Farha Anwer Zaara Ishaq Abubakar Siddique Majid Ali Shah Moazur Rahman Abdur Rahman Xinrui Mao Tingting Jiang Bok Luel Lee Taeok Bae Amjad Ali
Journal of Immunological Methods, Volume 504, Article Number 113264

Impact Factor: 2.303 | Quartile: 3 | Citations: 8

DOI: <https://doi.org/10.1016/j.jim.2022.113264>

***Lactaseibacillus rhamnosus* FM9 and *Limosilactobacillus fermentum* Y57 Are as Effective as Statins at Improving Blood Lipid Profile in High Cholesterol, High-Fat Diet Model in Male Wistar Rats**

2022

Hamza Zafar Noor ul Ain Abdulrahman Alshammar Saeed Alghamdi Hafsa Raja Amjad Ali Abubakar Siddique Syeda Dua Tahir Samina Akbar Maryum Arif Metal Alharbi Abdur Rahman
Nutrients, Volume 14, Issue 8, Article Number 1654

Impact Factor: 6.706 | Quartile: 1 | Citations: 27

DOI: <https://doi.org/10.3390/nu14081654>

Comparative Genomic Analysis of a Pantone–Valentine Leukocidin-Positive ST22 Community-Acquired Methicillin-Resistant *Staphylococcus aureus* from Pakistan

2022

Nimat Ullah Samavi Nasir Zaara Ishaq Farha Anwer Tanzeela Raza Moazur Rahman Abdulrahman Alshammari Metab Alharbi Taeok Bae Abdur Rahman

Amjad Ali

Antibiotics , Volume 11(4), Article Number 496

Impact Factor: 5.222 | **Quartile:** 1 | **Citations:** 11

DOI: <https://doi.org/10.3390/antibiotics11040496>

Lactobacillus reuteri and Enterococcus faecium from Poultry Gut Reduce Mucin Adhesion and Biofilm Formation of Cephalosporin and Fluoroquinolone-Resistant Salmonella enterica

2021

Abubakar Siddique Sara Azim Amjad Ali Fazal Adnan Maryum Arif Muhammad Imran Erika Ganda Abdur Rahman

Animals , Volume 11(12), Article Number 3435

Impact Factor: 2.752 | **Quartile:** 1 | **Citations:** 19

DOI: <https://doi.org/10.3390/ani11123435>

Genomic Investigation of Methicillin-Resistant Staphylococcus aureus ST113 Strains Isolated from Tertiary Care Hospitals in Pakistan

2021

Nimat Ullah Hamza Arshad Dar Kanwal Naz Saadia Andleeb Abdur Rahman Fazal Hanan Taeok Bae Amjad Ali Muhammad Tariq Saeed

Antibiotics-Basel , Volume 10(9), Article Number 1121

Impact Factor: 4.639 | **Quartile:** 2 | **Citations:** 9

DOI: <https://doi.org/10.3390/antibiotics10091121>

Antimicrobial Resistance Profiling of Biofilm Forming Non Typhoidal Salmonella enterica Isolates from Poultry and Its Associated Food Products from Pakistan

2021

Abubakar Siddique Sara Azim Amjad Ali Saadia Andleeb Aitezaz Ahsan Muhammad Imran Abdur Rahman

Antibiotics , Volume 10(7), Article Number 785

Impact Factor: 4.639 | **Quartile:** 2 | **Citations:** 24

DOI: doi.org/10.3390/antibiotics10070785

Potential of polymer stabilized nano-liposomes to enhance antimicrobial activity of nisin Z against foodborne pathogens

2018

Taskeen Niaz Saima Shabbir Dr. Tayyaba Noor Dr. Abdur Rahman Habib Bokhari Muhammad Imran

LWT Food Science and Technology , Volume 96, Pages 98-110

Impact Factor: 3.714 | **Quartile:** 1 | **Citations:** 77

DOI: [10.1016/j.lwt.2018.05.029](https://doi.org/10.1016/j.lwt.2018.05.029)

High-Throughput Identification of Candidate Strains for Biopreservation by Using Bioluminescent Listeria monocytogenes

2018

Abdur Rahman Sara M. El Kheir Lamia Cherrat Nancy E. Ramia Samir Taha2 Delphine Passerini Françoise Leroi Jeremy Petit Cécile Mangavel Anne-Marie

Revol-Junelles Frédéric Borges

Frontiers in Microbiology , NULL

Impact Factor: 4.259 | **Quartile:** 1 | **Citations:** 10

DOI: [10.3389/fmicb.2018.01883](https://doi.org/10.3389/fmicb.2018.01883)

Genes associated to lactose metabolism illustrate the high diversity of Carnobacterium maltaromaticum

2016

Christelle F. Iskandar Catherine Cailliez-Grimal Abdur Rahman Emmanuel Rondags Benoît Remenant Monique Zagorec Jorgen J. Leisner Frédéric Borges

Anne-Marie Revol-Junelles

Food Microbiology , Volume 58, Pages 79-86

Impact Factor: 3.759 | **Quartile:** 1 | **Citations:** 4

DOI: [doi:10.1016/j.fm.2016.03.008](https://doi.org/10.1016/j.fm.2016.03.008)

Repeat-based Sequence Typing of Carnobacterium maltaromaticum

2016

Abdur Rahman Sara M. El Kheir Alexandre Back Cécile Mangavel Anne-Marie Revol-Junelles Frédéric Borges

International Journal of Food Microbiology , Volume 226, Pages 1-4

Impact Factor: 3.339 | **Quartile:** 1 | **Citations:** 4

DOI: <http://dx.doi.org/10.1016/j.ijfoodmicro.2016.03.003>

Antihypertensive nano-ceuticals based on chitosan biopolymer: Physico-chemical evaluation and release kinetics

2016

Taskeen Niaz Saima Shabbir Shahid Manzoor Asma Rehman Abdur Rahman Habib Nasir Muhammad Imran

Carbohydrate Polymers , Volume 142, Pages 268-274

Impact Factor: 4.811 | **Quartile:** 1 | **Citations:** 53

DOI: [10.1016/j.carbpol.2016.01.047](https://doi.org/10.1016/j.carbpol.2016.01.047)

Cefazolin loaded chitosan nanoparticles to cure multi drug resistant Gram-negative pathogens

2016

Bushra Jamil Huma Habib Shahid Abbasi Habib Nasir Abdur Rahman Asma Rehman Habib Bokhari Muhammad Imran

Carbohydrate Polymers , Volume 136, Pages 682-691

Impact Factor: 4.811 | **Quartile:** 1 | **Citations:** 74
DOI: 10.1016/j.carbpol.2015.09.078

High genetic diversity among strains of the unindustrialized lactic acid bacterium *Carnobacterium maltaromaticum* in dairy products as revealed by multilocus sequence typing 2014
Abdur Rahman Catherine Cailliez-Grimal Cyril Bontemps Sophie Payot Stephane Chaillou Anne-Marie Revol-Junelles Frederic Borges
Applied and Environmental Microbiology , Volume 80, Number 13, Pages 3920-3929
Impact Factor: 3.668 | **Quartile:** 1 | **Citations:** 19
DOI: <https://doi.org/10.1128/AEM.00681-14>

Adaptation of the lactic acid bacterium *Carnobacterium maltaromaticum* LMA 28 to the mammalian gastrointestinal tract: From survival in mice to interaction with human cells 2014
Abdur Rahman Marita Gleinser Marie-Claire Lanhers Christian U. Riedel Benoit Foligne Marine Hanse Frances T. Yen Amira Klouj Muhammad Inam Afzal Alexandre Back Cecile Mangavel Catherine Cailliez-Grimal Anne-Marie Revol-Junelles Frederic Borges
International Dairy Journal , Volume 34, Issue 1, Pages 93-99
Impact Factor: 2.008 | **Quartile:** 2 | **Citations:** 11
DOI: <https://doi.org/10.1016/j.idairyj.2013.07.003>

Complete Chromosome Sequence of *Carnobacterium maltaromaticum* LMA 28 2013
Catherine Cailliez-Grimal Stephane Chaillou Jamila Anba-Mondoloni Valentin Loux Muhammad Inam Afzal Abdur Rahman Gilles Kergourlay Marie-Christine Champomier-Vergès Monique Zagorec Paw Dalgaard Jorgen J. Leisner Herve Prevost Anne-Marie Revol-Junelles Frederic Borges
Genome announcements , Volume 1(1), Article Number e00115-12
Impact Factor: N/A | **Citations:** 15
DOI: 10.1128/genomeA.00115-12

Book Chapters

Understanding the Role of Polyunsaturated Fatty Acids in the Development and Prevention of Cancer 2024
Abdur Rahman Samina Akbar Nazir Ahmad Muhammad Imran Zeeshan Hafeez
In: *Book on Nutrition and Dietary Interventions in Cancer*, 1st Edition, Chapter 3, Pages 57-93
Citations: 10
DOI: https://doi.org/10.1007/978-3-031-55622-7_3

Nutrigenetics and nutrition aspects in COVID-19 2023
Abubakar Siddique Syeda Duaa Tahir Maryum Arif Abdur Rahman
In: *Book on Omics Approaches and Technologies in COVID-19*, Chapter 11, Pages 177-190
Citations: 1
DOI: <https://doi.org/10.1016/B978-0-323-91794-0.00005-6>

Biotechnology applications in precision food 2022
Abubakar Siddique Tahira Tayyaba Abdur Rahman Muhammad Imran
In: *Book on Biotechnology in Healthcare, Volume 2: Applications and Initiatives*, Chapter 12, Pages 197-222
Citations: 6
DOI: <https://doi.org/10.1016/B978-0-323-90042-3.00013-X>

Editorial Activities

Foods 2022
Reviewed Papers for Journals
Impact Factor: 5.2

Antibiotics 2022
Reviewed Papers for Journals
Impact Factor: 5.22

European Commission Brussels 2021
Reviewed Papers for Journals
Impact Factor: 5.22

Intellectual Property

Copyrights

Patents

A composition of probiotic cocktail for MDR Salmonella enterica control (Probes as Salmonella
Solution: PASS)
Status: Filed

2022

Industrial Designs

Trademarks