

CURRICULUM VITAE



COMPLETE NAME: Prof. Dr. Muhammad Ishtiaq Ali

POSTAL ADDRESS: Department of Microbiology, Quaid-i-Azam
University Islamabad-45320, Pakistan

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❑ **ACADEMIC PROFILE:**

2012- 2013 **Post Doctorate (Microbiology)**
University of New South Wales Sydney, Australia

2005-2009 **Ph.D. (Doctor of Philosophy in Microbiology)**
Quaid-i-Azam University, Islamabad

2003 **Master of Sciences (Zoology)**
University of Arid Agriculture Rawalpindi

2001 **Bachelor of Sciences (Botany, Zoology, Chemistry)**
University of Punjab, Lahore

1999 **FSc (Pre-Medical)**
BISE Mirpur

Research and Employment History:

Director Academics Feb-2019 to-date	Quaid-i-Azam University Islamabad
Professor March 2021-to-date	Department of Microbiology, Quaid-i-Azam University
Associate Professor Jan 2016- March 2021	Department of Microbiology, Quaid-i-Azam University
Visiting Academic fellow Feb 2012 – December 2012	School of biotechnology and bimolecular Sciences University of New South Wales, Sydney, Australia
Assistant Professor Sep 2011- Jan 2016	Department of Microbiology, Quaid-i-Azam University
Lecturer (Aug. 2009- Aug. 2011)	Department of Microbiology, Quaid-i-Azam University
Visiting Research Fellow June 07- Dec 2007	Faculty of Life Sciences, University of Manchester, UK
Research Associate: 2004-2005	Microbiology Research Lab, Department of Microbiology Quaid-I-Azam University, Islamabad.
Ph.D. Research Fellow 2005-2009	Four-year post-graduation research project for Ph.D. under HEC Indigenous Fellowship at Microbiology Research Lab. Quaid-i-Azam University Islamabad.

Administrative Responsibilities

- **Director** Academics at Quaid e Azam University Islamabad. (February 14,2019 till date).
- **Director** Undergraduate Programs Quaid e Azam University Islamabad.
- **Focal Person** QAU Alumni Internal Office (December 2021 till date).
- **Focal Person** International Students/International Linkages at Quaid e Azam University Islamabad. (March 2019 till date).
- **Focal Person** Antinarcotics Force at Quaid e Azam University Islamabad (March 2021 till date)
- **Focal Person** Covid Management at Quaid e Azam University Islamabad. (April 2020 till date)
- **Focal Person** Kamyab Nowjawan student facilitation center at QAU
- Monitoring, assessment and improvement of research and academic programs.
- **Member Admission** Committee Quaid e Azam University Islamabad.
- **Member** Advanced Studies & Research Board (AS&RB)
- **Member** QAU Affiliation Committee.
- **Member** Rule Review committee, Quaid e Azam University Islamabad.
- **Member Admission** Committee Microbiology (MSc, MPhil and PhD).
- **Student Advisor** at Quaid e Azam University Islamabad (2010-2012).
- **Member** Scholarship Committee Quaid e Azam University Islamabad.
- **Member** Academic Council Quaid e Azam University Islamabad (March 2019 till date).
- **President** Academic Staff Association (2016-2017).
- **Member** Medical Committee Quaid e Azam University Islamabad.
- **Member** QAU project and development work advisory committee.
- **Member** Foreign Faculty Housing Society, Quaid e Azam University Islamabad.
- **Member** House Building Finance Committee, Quaid e Azam University Islamabad.
- **Member** Campus/Colony Maintenance Committee, Quaid e Azam University Islamabad.
- **Member** Resident Officer Committee, Quaid e Azam University Islamabad.

- **Member** HEC Faculty Development Program.
- **Focal** Person/Reviewer HEC Competitive Grants (NRPU, Peridot, PAK-US, TDF, LCF, GCF)
- **Member** Technical Committee Pakistan Science Foundation for competitive research grants.
- **Reviewer** Pakistan Science Foundation Competitive Grants (NSLP, CRP SPECIAL GRANTS)
- **Secretary** ASA QAU (2014-2015)
- **President** FAPUASA (2015-2016)
- **Executive** Member ASA (2015-2016)
- **Member** BOS microbiology Quaid e Azam University Islamabad.
- **Member** BOS department of zoology Mirpur university AJK
- **Member** BOS department of zoology Sargodha University
- **Member** Board of Faculty biological sciences, Quaid e Azam University Islamabad.
- **Member** board of DTC committee microbiology, Quaid e Azam University Islamabad
- **Member** DTC environmental science, Quaid e Azam University Islamabad
- **Member** DTC Hazara university.
- **Member** DTC Haripur university.
- **Member** DTC Abbottabad University of Science and Technology.
- **External Examiner** for MPhil; Ph.D. (NUST, PMAS-UUAR. IIUI, AUST, UOG, Hazara university, Sargodha University)

Teaching & Research interest:

Courses Taught:	Microbial biotechnology, Advances in Microbial Genetics Solid waste management, Microbial Metabolism, Molecular Microbiology, General Microbiology, Industrial Microbiology, Bioremediation, Water and wastewater treatment system
Research Interest:	Applied and Environmental Microbiology/ Biotechnology, Renewable Bioenergy, Molecular Microbiology, Bioremediation of organochlorinated compounds, Biodegradation of synthetic polymers, Food Microbiology, Waste to energy, Biogenic conversion of coal to methane

Honors/Awards

1. Indigenous Fellowship for the Ph.D Programme (Batch 1) awarded by Higher Education Commission, Pakistan (2005-2009)
2. International research support initiative program at University of Manchester UK by Higher Education Commission, Pakistan (June 07- December 2007).
3. Post-Doctoral Fellowship Phase II (batch V) awarded by Higher Education Commission, Pakistan (2012-2013)
4. Microbiology Gold medal Pakistan Society of Applied Zoology
5. Member Pakistan Academy of Sciences Islamabad

Research Grants

Sr. #	Title	Donor Agency	Amount (Rs.)	Duration		Role as	
				From	To	PI	Co. PI
1	Cloning and characterization of plastic degrading microbial isolates funded by Pakistan Science foundation	PSF (Completed)	2.14 M	2012	2015	PI	
2	Characterization of food and vegetable waste for energy production by microorganism funded by HEC	HEC (Completed)	0.5 M	2012	2013	PI	
3	Targeting the Hidden Natural Resource for Alternative Energy Source. Screening and Optimization of Microbial Bio gasification Techniques for Methane Production using Low to High Grade Coal	HEC (Completed)	5.6M	2015	2018	PI	
4	Characterization of Biochar for Remediation of Contaminated Soils	HEC (Completed)	7.0 M	2017	2020	PI	
5	Development of Biological Treatment System for Pulp and Paper Industry Effluent	HEC	5.1M	2017	2020		CO-PI
6	Production of microalgal biomass, as potential biofertilizer, using wastewater leading to removal of pollutants and pathogenic loads	NSLP-PSF	4.4M	2022	2024	PI	

Research Supervision

MPhil Completed: 64

MPhil in process: 5

Ph.D. Completed: 11

PhD in Process. 05

Research Supervision

PhD's Produced*

11

Under supervision:

05

S.No	Student's Name	Thesis title	Year
1.	Bushra Fatima	Biochar production potential of Pakistan and its high value applications	2022
2.	Javed Khan	Microbial Desulfurization of Organosulfur Containing Coal	2022
3.	Noreen Fatima	Enhancement of Microbial Solubilization and Biogenic Methane Potential of Low to High Grade Coal of Pakistan	2022
4.	Farhana Bibi	Optimization of Indigenous Microalgae for High Biomass and Lipids Productivity and Utilization	2022

		of Algal Biomass in Biorefinery Approach	
5.	Saeed Ullah Jan	Synergetic Effects of Different Biochar and Fungi (<i>Glomus Mosseae</i>) in Bioremediation of Metals Contaminated Soil and their Impact on Plant Growth	2021
6.	Sadia Aziz	Production and characterization of Biochar from organic waste and its application for bioremediation in Diesel contaminated soils	2019
7.	Hassan Waseem	Evaluation of Antimicrobial Resistance Dissemination in the Environment	2019
8.	Jafir Hussain Shirazi	Clinical and Epidemiological Studies of Oropharyngeal Candidiasis in Various Hospitals of Pakistan	2019
9.	Aneela Younis Malik	Isolation and Characterization of Coal solubilizing Microorganism	2018
10.	Nazia Khatoon	Molecular Characterization of Microbial Oxidoreductases and their Application in Polymer Biodegradation	2018
11.	Rabia Liaquat	Anaerobic digestion of organic waste for biogas production	2016

* A student recommended for the award of degree by the Advanced Studies and Research Board.

M.Phil. Produced

Total Number: 64

S. No	Name	Title	Year
1.	Rafia Tariq	Comparative studies for municipal waste water treatment by selected microorganism isolates	2023
2.	Laiba Mumtaz	Microbial extraction of fulvic and humic acid from different indigenous coal types	2023
3.	Iqra Ashraf	Some studies of biofilm mediated biochar reactors for rain water reclamation	2023
4.	Hafiza Sehrish Kiyani	Quantification of class 1 Integron and 16s RNA gene in hospital wastewater before and after anaerobic digestion	2022
5.	Umay Hani	Comparative analysis of low density polyethylene (LDPE) and Bioplastic using microbial consortium	2022
6.	Tayyaba Afzal	Production and characterization of bioplastic using indigenous microalgae	2022
7.	Syeda Ayesha bukhari	Coliform reduction from fecal contaminated wastewater by using surface modified woodchip based biochar.	2022
8.	Usman Ahmad Khalid	Evaluation of Indigenous Microalgal Strain for Production of Various Useful Byproducts	2022

9.	Shama Zahra	Assessment Of Bioactive Metabolites for Antioxidant and Antimicrobial Activities Using Indigenous Green Microalgae	2022
10.	Aroosa Khan	Biochar Adsorption of Antibiotics and its ability for the Bioremediation of Antibiotic Resistant Microbiome in Contaminated Soil and Water Ecosystems	2022
11.	Saleeha Jamil	Assessment of the Potential of Microalgae as Biostimulant and Biofertilizer on Wheat Crop Production	2021
12.	Rabia Asghar	Studies on Agronomic Impact of Banana Peel Derived Biochar in Combination with Organic fertilizer	2021
13.	Iqra Khan	Study of Peanut Husk Biochar Potential to Enhance <i>Brassica campestris</i> Growth and Immobilization of Lead Metal	2021
14.	Akhlaq Ahmed	Efficacy of Poultry Based Biochar on Wheat Growth and its Application as Organic Fertilizer	2021
15.	Sania Fatima	Stimulation of methane generation from lignite coal samples through co-digestion of different substrates	2019
16.	Samia Anjum	Enhanced solubilization of bituminous coal through indigenous fungal strain for the extraction of humic acid	2019
17.	Momina Mansha	Comparative analysis of Tea spent and sludge waste derived biochar for remediation of Cadmium polluted soils	2019
18.	Muqadas Zafar	Evaluation of biomethane potential of microalgae and enhancement by co-digestion with eucalyptus leaves	2019
19.	Adeela Abbas	Characterization of Fruit and Vegetable-Based Biochar for Remediation of Diesel Oil Contaminated Soils	2019
20.	M Adnan Sabir	Bio Gasification Potential of Indigenous Low Rank Coal by <i>Rhizopus oryzae</i>	2019
21.	Anab Mujtaba	Studies on Enzymatic Desulphurization of Coal from Salt Range Coal Mine	2019
22.	Merium Sandhu	A Field Scale Study for Remediation of Crude Oil by Agriculture Waste Biochar	2019
23.	Tehmina Ahmad	Studies on Optimization of Native Micro-Algal Strain for Biodiesel Production	2018

24.	Rida Riaz	Applications of Agricultural Waste Mediated Biochar for the Remediation of Crude Oil Contaminated Soil	2018
25.	Marya Khan	Biosolubilization and Gasification Potential of Selected Microbial Strains from Balochistan Coal	2018
26.	Shahpal Malik	Comparative Molecular Analysis of Indigenous Microbial Diversity of Cherat, Dara and Duki Coal	2018
27.	Saira Bano	Some studies on indigenous high carbohydrates accumulating microalgal strain and its potential for bioethanol production	2018
28.	Sana Bari	Studies on Coal Desulphurization of Cherat Coal Mine by Native microbial flora	2017
29.	Aamna Kiyani	Cost Effective and Eco Friendly Production of Bio Diesel using Microalgae as a Feed Stock	2017
30.	Laiba Yaseen	Effect of Different Types of Bio-char on Plant Growth and Soil Microflora	2017
31.	Hira Alam	Bio- desulphurization and Bio- solubilization of Coal Sample of Dara Adam Khel Coal Mines by Indigenous Microbial Flora	2017
32.	Afsheen Nawaz	Study on Endosulfan Bioremediation in Aqueous Medium and Soil Microcosm by Fungal Strains Isolated from Pesticide Contaminated Fields	2017
33.	Huma Nawaz	Biological pretreatment and Enzymatic Hydrolysis of Paper Waste	2016
34.	Bushra Fatima	Studies on pretreatment of poultry slaughter house Waste for biogas enhancement by ammonia Inhibition	2016
35.	M Usman	Isolation and characterization of Chirat coal mine (KPK) microorganisms for coal solubilization and methane production	2016
36.	Noreen Fatima	Heterologous expression of ligninolytic peroxidases for the biodegradation of synthetic polymers	2016
37.	Aeman Sehar	Production and characterization of biochar from organic waste	2016
38.	Muslima Afnan	Studies on Bioremediation of Endosulfan by Microbial Oxidoreductases Enzymes	2016
39.	Beenish Sadaqat	Decolourization Of Synthetic And Human Hair Melanin By Lignin Peroxidases of Fungal Origin	2016
40.	Samreen Zaidi	Isolation and Characterization of Microalgae from Natural Habitats and Local Bodies for Bio-Molecule Production	2016
41.	Hifsa Shafiat	Development of Microbial Consortium for the Bioremediation of Endosulfan	2016
42.	Javed Khan	Cloning and molecular characterization of laccases and lignin peroxidases for polymer biodegradation	2015
43.	Moona Karim	Role of natural Zeolite for biogas production from organic solid waste	2015

44.	Tehseen Usman	Microbial desulphurization of Butimonous coal samples from salt range Pakistan	2015
45.	Tooba Hayat	Studies on effect of charcoal on microbial diversity of soil and their combined impact on soil fertility	2015
46.	Aneesa dawood	Production and characterization of versatile peroxidase from fungal isolates	2015
47.	Sidra Kaleem	Molecular and enzymatic characterization of microbial community in fruit and vegetable digester	2014
48.	Najam-e- Sahar	Biosynthesis of lignin peroxidase by white rot fungi for plastic degradation	2014
49.	Sundus Rani	Some studies on endosulphan degrading microbial isolates	2014
50.	Iram Fatima	Isolation and screening of coal degrading anaerobic microorganism	2014
51.	Gul Dasta	Biodegradability studies of polystyrene by fungal manganese peroxidases	2014
52.	Haider Ali	Production and characterization of fungal lignin peroxidases and laccases for biodegradation of polylvinyl chloride	2014
53.	Aqeela Azeem	Effect of co-digestion and operating parameters on bio-gas production by anaerobic digestion of fruit and vegetable waste	2014
54.	M. Ali	Isolation and screening of coal solubilizing aerobic microorganisms	2014
55.	Sumera Naz	Prevalence of Methicillin-resistant Staphylococcus aureus (MRSA) and Extended spectrum β lactamases (ESBL) in post operative wound infections	2013
56.	Mishal Subhan	Biosurfactant production by newly isolated fungal strain and its application in microbial enhanced oil recovery	2012
57.	Urooj Kiran	An investigation of Antimicrobial activity of Silver Nanoparticles against Multidrug resistant Microorganisms	2012
58.	Nazia Khatoon	Characterization and activity analysis of biofilm formation on polymer exposed to waste water	2012
59.	Shumaila Ashfaq	Studies on Microbial degradation of Paints.	2012
60.	Muneeba Maryem	Extracellular Myco-synthesis of metal nanoparticles by <i>Aspergillus niger</i> .	2012
61.	Maryam Idress	DNA methylation analysis of major DNA components of Banana Bunchy Top virus Genome	2012
62.	M. Rafiq	Cloning, sequencing and phylogentic analysis of DNA-A of cotton leaf curl disease associated Begomovirus	2011

63.	Hajra Haneef	Isolation and Molecular Characterization of Clostridium tetani	2011
64.	Imran Khan	Role of fungal peroxidases in the degradation of Polyvinyl chloride	2011

Research Publications: Impact factor (330 +)

1. Sadia Aziz, Bushra Uzair, **Muhammad Ishtiaq Ali**, Sundas Ambreen, Fatiha Umber; Muneeba Khalid, Alaa AA. Aljabali, Yachana Mishra, Vijay Mishra, Ángel Serrano-Aroca, Gowhar A. Naikoo, Mohamed El-Tanani, Shafiul Haque, Abdulmajeed G Almutary (2023). Synthesis and Characterization of Nanobiochar from Rice Husk Biochar for the Removal of Safranin and Malachite Green from Water. Environmental Research. Doi. 10.1016/j.envres.2023.116909
(Impact Factor 8.43)
2. Xiao Feng, Panpan Zhang, Zizhong Zhang, Hongguang Guo, Zhigang Li, Zaixing Huang, Michael Urynowicz & **Muhammad Ishtiaq Ali** (2023). The effect of organics transformation and migration on pore structure of bituminous coal and lignite during biomethane production. Environ Sci Pollut Res. doi.org/10.1007/s11356-023-27945-8 (Impact Factor 5.8)
3. Weiting Zhang, Zaixing Huang , Dan Zhang , Gordana Medunić , Michael Urynowicz , Fang-Jing Liu , Hongguang Guo , Rizwan Haider, **Muhammad Ishtiaq Ali**, Asif Jamal, Huan He (2023). Enhancement of biomethane production by huminite-enriched lignite pretreated with hydrogen peroxide. International Journal of Coal Geology . 274, 104284. doi.org/10.1016/j.coal.2023.104284 (Impact Factor 6.3)
4. Weiting Zhang, Qianyun Mo, Zaixing Huang , Muhammad Muhammad Sabar, Gordana Gordana Medunić , Tatjana Tatjana Ivošević, Huan He , Muhammad Sabar, Fangjing Liu, Hongguang Guo, Rizwan Haider, **Muhammad Ishtiaq Ali** and Asif Jamal (2023). Corrigendum: Contaminants from a former Croatian coal sludge dictate the structure of microbiota in the estuarine (Raša Bay) sediment and soil. Frontier of Microbiology. 10.3389/fmicb.2023.1175748(Impact Factor 5.64)
5. Afsheen Mansoor, Mazhar Mehmood, **Muhammad Ishtiaq Ali**, Asif Jamal (2023). Synthesis of TiO₂ nanoparticles and demonstration of their antagonistic properties against selected dental caries promoting bacteria. Pakistan Journal of Medical Sciences. 10.12669/pjms.39.5.7851 (Impact Factor 2.2)
6. Sadia Aziz,Shabana Bibi,Mohammad Mehedi Hasan,Partha Biswas, **Muhammad Ishtiaq Ali**,Muhammad Bilal,Hitesh Chopra,Nobendu Mukerjee Icon and Swastika Maitra (2023). A review on influence of biochar amendment on soil processes and environmental remediation.

- Biotechnology and Genetic Engineering Reviews. doi.org/10.1080/02648725. (**Impact Factor 4.375**).
7. Afsheen Qamar, **Muhammad Ishtiaq Ali**, Malik Badshah, Asif Jamal (**2023**). Antibacterial effect of Titanium-Oxide nanoparticles and their application as alternative to antibiotics. Pakistan Veterinary Journal. 43(2/3) (**Impact factor 2.3**).
 8. Javed Khan, **Muhammad Ishtiaq Ali**, Asif Jamal, Jahangir Khan Achakzai, Jafir Hussain Shirazi, Abdul Haleem (**2023**). Assessment of the dibenzothiophene desulfurization potential of indigenously isolated bacterial consortium IQMJ-5: A different approach to safeguard the environment. Archives of Microbiology. 205, 95. <https://doi.org/10.1007/s00203-023-03429-8> (**Impact factor 2.53**)
 9. Bushra Fatima , Farhana Bibi , **Muhammad Ishtiaq Ali** , Jeremy Woods , Mushtaq Ahmad , Muhammad Mubashir , Mohd Shariq Khan , Awais Bokhari , Kuan Shiong Khoo (**2022**). Accompanying effects of sewage sludge and pine needle biochar with selected organic additives on the soil and plant variables. Waste management. 153(25):197-208 (**Impact factor 8.9**).
 10. Yue Cao,Huan He,Di Zhan,Hua-Zhou Huang,Yong Zhang,Bo Fu,Zhi-Min Xu, **Muhammad Ishtiaq Ali**,Fang-Jing Liu,Xiu-Xiang Tao &Huang Zaixing (**2022**). Changes of Permeability and Porosity of Tiefs Anthracite after Treatment with an Acetogenic Bacterium Clostridium sp. Geomicrobiology. doi.org/10.1080/01490451.2022.2158252 (**Impact Factor 2.308**)
 11. Zhigang Li, Zaixing Huang, Jiaqi Cheng, Kaixin Duan, Michael Urynowicz, Yatong Cheng, **Muhammad Ishtiaq Ali**, Hongguang Guo (**2022**). The succession of microorganisms and organics in the process of methane generation by co-degradation of anthracite and rice straw. International Journal of Energy Research. 10.1002/er.8210 (**Impact Factor 5.164**)
 12. Saleha Parveen , **Muhammad Ishtiaq Ali** , Maryam Aslam , Irfan Ali , Asif Jamal, Mysoon M. Al-Ansari , Latifah Al-Humaid, Michael Urynowicz ,Zaixing Huang (**2022**). Optimizing biocatalytic potential of Dipodascus australiensis M-2 for degrading lignin under laboratory conditions. Microbiological Research. doi: 10.1016/j.micres.2022.127179 (**Impact factor 5.07**)
 13. Javed Khan, **Muhammad Ishtiaq Ali**, Asif Jamal, Mushtaq Ahmad, Jahangir Khan Achakzai, Zafar Mehmood (**2022**). Response of mixed bacterial culture towards dibenzothiophene desulfurization under the influence of surfactants and microscopically characterized magnetic Fe₃O₄ nanoparticles. Microscopy Research and Technique. Doi. 10.1002/jemt.24230 (**Impact factor 2.89**).

14. Farhana Bibi, **Muhammad Ishtiaq Ali**, Mushtaq Ahmad, Awais Bokhari, Kuan Shiong Khoo, Muhammad Zafar, Saira Asif, Muhammad Mubashir, Ning Han, Pau-Loke Show (2022). Production of lipids biosynthesis from *Tetrademus nygaardii* microalgae as a feedstock for biodiesel production. FUEL. doi.org/10.1016/j.fuel.2022.124985 (**Impact Factor 8.035**)
15. Kashaf Khalid, Umar Saeed, Mohammed Aljuaid, **Muhammad Ishtiaq Ali**, Awais Anjum, Yasir Waheed (2022). Immunoinformatic approach to contrive a next generation multi-epitope vaccine against *Achromobacter xylosoxidans* infections . Frontiers in Medicine. DOI: 10.3389/fmed (**Accepted Impact Factor 5.091**)
16. Kaiyi Gong, Yixuan Zhang, Hongguang Guo , Zaixing Huang, Michael Urynowicz, **Muhammad Ishtiaq Ali** (2022). Enhancing biomethane production from lignite by an anaerobic polycyclic aromatic hydrocarbon degrading fungal flora enriched from produced water. Frontiers in Microbiology. doi: 10.3389/fmicb.2022.899863 (**Impact Factor 6.064**)
17. Javed Khan, Asif Jamal, Zaixing Huang, Jahangir Khan Achakzai, **Muhammad Ishtiaq Ali** (2022). Optimizing the metabolic performance of mixed bacterial culture towards dibenzothiophene desulfurization under the effect of varying nutrient and environmental factors. Polish Journal of Environmental Studies. 31(5): 1-9. 10.15244/PJOES/147650 (**Impact Factor 1.87**)
18. Farhana Bibi, Asif Jamal, Zaixing Huang, Michael Urynowicz, **Muhammad Ishtiaq Ali** (2022). Advancement and role of abiotic stresses in microalgae biorefinery with a focus on lipid production. FUEL. 316,123192 <https://doi.org/10.1016/j.fuel.2022.123192> (**Impact Factor 8.035**)
19. Farhana Bibi , Humaira Yasmin, Asif Jamal , Mohammad S Al-Harbi , Mushtaq Ahmad , Muhammad Zafar , Bashir Ahmad , Bassem N Samra , Atef F Ahmed , **Muhammad Ishtiaq Ali** (2021). Deciphering role of technical bioprocess parameters for bioethanol production using microalgae. Saudi J Biol Sci. 28(12):7595-7606 (**Impact Factor 4.22**)
20. Muhammad Musaddiq Shah, Wen Ren ,Joseph Irudayaraj ,Abdulrahim A. Sajini , **Muhammad Ishtiaq Ali** and Bashir Ahmad (2021). Colorimetric Detection of Organophosphate Pesticides Based on Acetylcholinesterase and Cysteamine Capped Gold Nanoparticles as Nanozyme. Sensors. 21(23), 8050 doi.org/10.3390/s21238050 (**Impact Factor 3.85**)
21. Ramla Rehman, **Muhammad Ishtiaq Ali**, Naeem Ali, Malik Badshah, Mazhar Iqbal, Asif Jamal, Zaixing Huang (2021). Crude oil biodegradation potential of biosurfactant producing *Pseudomonas aeruginosa* and *Meyerozyma* sp. Journal of Hazardous Materials. doi.org/10.1016/j.jhazmat.2021.126276 (**Impact Factor 14.224**)

22. Dan Zhang, Huan He, Yi Ren, Rizwan Haider, Michael Urynowicz, Paul H. Fallgren, Song Jin, **Muhammad Ishtiaq Ali**, Asif Jamal, Muhammad Adnan Sabar, Hongguang Guo, Fang-Jing Liu, Zaixing Huang (2021). A mini review on biotransformation of coal to methane by enhancement of chemical pretreatment. Fuel (308):121961 <https://doi.org/10.1016/j.fuel.2021.121961> (**Impact factor 8.05**)
23. Chen, Z. Huang, X. He, H.; Tang, J. Tao, X.; Huang, H. Haider, R. **Ali, M.I.** Jamal, A. Huang, Z (2021). Bioleaching Coal Gangue with a Mixed Culture of Acidithiobacillus ferrooxidans and Acidithiobacillus thiooxidans. Minerals , 11,1043. <https://doi.org/10.3390/min11101043> (**Impact Factor 2.82**)
24. Zaixing Huang, Michael A Urynowicz, Rizwan Haider, Hamed Sattar, Mahmood Saleem, Lan Hoang, , Ngoc Tran Han , Kim Anh Toe , Hung Le Quoc , **Muhammad Ishtiaq Ali** , Honggunag Guo , Huan Hea , Fang-Jing Liua (2021). Biogenic methane generation from Vietnamese coal after pretreatment with hydrogen peroxide. International Journal of Energy Research DOI: 10.1002/er.6985 (**Impact Factor 5.164**)
25. Noureen Fatima , Asif Jamal, Zaixing Huang, Rabia Liaquat, Rizwan Haider, Bashir Ahmad, **Muhammad Ishtiaq Ali** (2021). Extraction and Chemical Characterization of Humic Acid from Lignite and Bituminous Coal using Nitric acid as pretreatment. Sustainability: 13(16), 8969 (**Impact Factor 3.89**)
26. Muhammad Muddasar, Rabia Liaquat, Ali Abdullah, Asif Hussain Khojaa , Nadia Shahzad , Naseem Iqbal , **Muhammad Ishtiaq Ali** , Azhar Uddin , Sami Ullah (2021). Evaluating the use of unassimilated bioanode with different exposed surface areas for bioenergy production using solar-powered Microbial Electrolysis Cell. International Journal of Energy Research DOI: 10.1002/er.7091 (**Impact Factor 5.16**)
27. Mamoon Munir, Mushtaq Ahmad, Muhammad Saeed, Amir Waseem, Abdul-Sattar Nizami, Shazia Sultana, Muhammad Zafar, Mohammad Rehan, Gokul Raghavendra Srinivasan, Arshid Mahmood Ali, **Muhammad Ishtiaq Ali** (2021). Biodiesel production from novel non-edible caper (Capparis spinosa L.) seeds oil employing Cu-Ni doped ZrO₂ catalyst. Renewable & Sustainable Energy Reviews. 138: 110558. doi.org/10.1016/j.rser.2020.110558 (**Impact factor 16.799, Q1**)
28. Hongguang Guo, Yujie Zhang, Yiwen Zhang, Xingfeng Lia, Zhigang Lia, Weiguo Liang, Zaixing Huang, Michael Urynowicz, **Ali Ishtiaq Muhammad** (2021). Feasibility study of enhanced biogenic coalbed methane production by super-critical CO₂ extraction. Energy. 214, 118935 doi.org/10.1016/j.energy.2020.118935 (**Impact Factor 8.86, Q1**)

29. Foqia khalid, Muhammad Zaffar Hashmi, **Muhammad Ishtiaq Ali**, Abdul Qadir (2021). Enzymatic and microbial degradation of PCBs from E-waste contaminated sites. Environmental Science and Pollution Research. doi.org/10.1007/s11356-020-11996-2 (**Impact Factor 5.19, Q1**)
30. Hongguang Guo, Qing Han, Jinlong Zhang, Weiguo Liang, Zaixing Huang, Michael Urynowicz, **Muhammad Ishtiaq Ali** (2021). Available methane from anthracite by combining coal seam microflora and H₂O₂ pretreatment. International Journal of Energy Research. doi.org/10.1002/er.5890 (**Impact Factor 5.164, Q1**)
31. Lubna, Muhammad Zafar, Mushtaq Ahmad, Ghulam Mujtaba Shah, Amir Muhammad Khan, Omer Kilic, Erkan Yilmaz, Fethi A. Ozdemir, **Muhammad Ishtiaq Ali**, Muhammad Ajmal Shah, Shazia Sultana, Shabir Ahmad (2021). Application and implication of scanning electron microscopy for evaluation of palyno-morphological features of Vitaceae from Pakistan. Microscopy Research and Technique. 84(4) 608-617 doi.org/10.1002/jemt.23619 (**Impact Factor 2.89, Q1**)
32. Jafir Hussain Shirazi, **Muhamamd Ishtiaq Ali**, Asif Jamal, Zafeer Saqib, Abdul Rashid (2021). Effects of Seasonal Changes on the Patients flux to Basic Health Units in Pakistan. Iranian Journal of Public Health. 50(5) : 1065-67 (**Impact Factor 1.47, Q3**)
33. Hongguang, Guo; Zhang, Yixuan; Huang, Zaixing; Liang, Weiguo; Urynowicz, Michael; **Ali, Muhammad** (2020). High potential of methane production from coal by fungi and hydrogenotrophic methanogens from produced water. Energy & Fuels. 34, 9, 10958–10967 (**Impact factor 4.65, Q1**)
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75. Irfan Mustafa, Haroon, Myda Abrar Lodhi, Abdul Rauf Siddiqi Sher Khan, Waseem Haider, Nazish Bostan, Saira Asif, Mobushir Riaz Khan, Mazhar Qayyum, Shahzad Ali, **Muhammad Ishtiaq Ali**, Muhammad Sohail Afzal (**2015**). Newcastle disease as an emerging disease in

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Book Chapters

1. Asif Jamal Ahtisham bin Masood, **Muhammad Ishtiaq Ali**. Pollution mitigation utilizing biosurfactants, Industrial Applications of Biosurfactants and Microorganisms: Green Technology Avenues From Lab to Commercialization, **Elsevier Publications 2023 (In press)**
2. Asif Jamal, Irfan Ali, **Muhammad Ishtiaq Ali**, Ahtisham bin Masood, Introduction and classification of Biosurfactants, Industrial Applications of Biosurfactants and Microorganisms: Green Technology Avenues from Lab to Commercialization, **Elsevier Publications 2023 (In production process)**
3. Afsheen Mansoor, Asif Jamal, Aetsam Bin Masood, and **Muhammad Ishtiaq Ali (2023)**. Magnetic Surfactants: Introduction, Chemistry, and Properties. 0.1021/bk-2023-1447.ch001 ACS Symposium Series; American Chemical Society: Washington, DC. (**in production process**)
4. Asif Jamal, **Muhammad Ishtiaq Ali**, Ahitsham bin Masood. Role of biosurfactants in agriculture, Advancements in biosurfactants research, **Springer publishers, (2022)**, 1st Edition
5. Hassan Waseem Sana Jameel, Hamza Saleem, Jafar Ali, Muhammad Javed Iqbal and **Muhammad Ishtiaq Ali**. **Chapter 14**. Global trends in ARGs measured by HT-qPCR platforms. **2020**. Antibiotics and Antimicrobial Resistance Genes in the Environment (Elsevier). ISBN: 9780128188835 Volume 1: 206-22, DOI: <https://doi.org/10.1016/B978-0-12-818882-8.00014-0>
6. Hassan Waseem, Jafar Ali, Asif Jamal and **Muhammad Ishtiaq Ali**. Chapter 21. Treatment Technologies. **2020**. Antibiotics and Antimicrobial Resistance Genes: Environmental Occurrence and Treatment Technologies. (Springer) ISBN: ISBN 978-3-030-40421-5 Volume 1: 395-413, DOI https://www.doi.org/10.1007/978-3-030-40422-2_18

Conferences Organized and Participated

Conference Title	Organizer	Location	Date	Sponsoring Agency
International Conference on Dengue	Dpt of Zoology, QAU	QAU, Islamabad	15 th November, 2022	QAU, Islamabad
5 th International conference of Applied Zoology	Applied Zoological society of Pakistan	Rahimyarkhan	17,18 October, 2022	Applied Zoological society of Pakistan
4 th International conference of Applied Zoology	QAU, Islamabad	QAU, Islamabad	22,23 November, 2021	Applied Zoological society of Pakistan
3 rd International conference of Applied Zoology	Applied Zoological society of Pakistan	GC university, Faisalabad	7 th 8 th December, 2020	Applied Zoological society of Pakistan
12 th International Conference of Pakistan Society for Microbiology	Abbottabad University of Science & Technologys	Havelian, Pakistan	Feb 20-22 , 2019	HEC ASM
11th International Conference of Pakistan Society for Microbiology	Bahauddin Zakariya University, Multan, Pakistan	Multan Pakistan	Dec 18-20, 2017	ASM
National conference On Recent Trends in Microbiology	Abbottabad University of Science & Technology	Havelian, Pakistan	19-21 December 2016	HEC& ASM
10 th Biennial International Confrence of Pakistan society for Microbiology	University of Punjab	Lahore	25-28 march 2015	HEC
Symposium on Coal Biotechnology-Its Commercialization Prospects in Pakistan	NIBGE Faislabad	Faislabad	24-25 November 2014	HEC
workshop on Application of Statistics and Data Analysis	QAU Islamabad	Islamabad	24-28 June 2014	HEC
International Conference on energy production from agriculture biomass and domestic waste	PMAS-UAAR	Rawalpindi	15-17 April 2014	HEC
Biosafety Training Workshop for Young Scientists	AIOU Islamabad	Islamabad	16 January 2014	HEC

2nd national conference on Current Approaches In Microbiology	Dept. Microbiology, Hazara University KPK Pakistan	Nathia Gali, Abbottabad	27-28 June, 2013	QAU
BIT's 6 th annual World congress of Industrial Biotechnology (Ibio-2013)	IBIO China	Nanjing, China	25-27 April, 2013	PSF
1st National Symposium on New Horizons of microbiology	Fedral Urdu Univrsity karachi	Karachi, Pakistan	7th & 8th November 2012	HEC
International workshop on Essential Need of Nano-Education in OIC Countries	COMSTECH-PRESTON Islamabad. Pakistan	Islamabad.	7-9 April, 2011	COMSTEC H
15 th International Symposium on Biodeterioration and Biodegradation (IBBS-15)	University of Natural Resources and Life Sciences Vienna, Austria	Austria	September 19-24 th , 2011	HEC
3 rd IPO conference 26 th April 2011	IPO Pakistan	Islamabad	26 April 2011	IPO, Pakistan
2nd IPR Conference, by Intellectual Property Organization – Pakistan	IPO-P	Islamabad	May 3, 2010	
1 st National conference of Microbiology “New Horizons of Microbiology	Department of Microbiology, Shah Abdul Latif University, Khairpur Sindh, Pakistan	Department of Microbiology, Shah Abdul Latif University, Khairpur Sindh, Pakistan	21-22, 2009	HEC
First international conference on Advances in Waste Water Treatment and Reuse. , from	University of Tehran, College of Engineering, Tehran, IRAN	Tehran, IRAN	09-11 November, 2009	
1st International conference on biotechnology,	King Saud University, Riyadh Saudi Arabia	Riyadh Saudi Arabia	16-18 Sep 2009	HEC

MEMBERSHIP OF INTERNATIONAL SOCIETIES:

1. American Society for Microbiology
2. International Biodeterioration & Biodegradation Society
3. European federation for Biotechnology
4. Pakistan Society for Microbiology
5. Pakistan Society for Biochemistry
6. Society of Anaerobic Microbiology