

## ANWAR HUSSAIN

### PRESENT

Teaching Assistant/Research Assistant  
Institute of Microbiology, Faculty of Natural Science,  
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### EDUCATION

Shah Abdul Latif University, Pakistan

**Ph.D. (Thesis Submitted)** Microbiology (Environmental Biotechnology)  
Dissertation: "Bacterial Degradation of Paints and its Environmental Impact Assessment".  
Guide: Prof. Dr. Nisar Ahmed Kanhar

Shah Abdul Latif University, Pakistan

**M. Phil.** Microbiology (Environmental Biotechnology)  
Dissertation Title: "Isolation, Identification and Characterisation of oil paints degrading bacteria from warehouses of Khairpur and Sukkur cities".  
Guide and Experts: Prof. Dr. Nisar Ahmed Kanhar, Prof. Dr. Yasmeen F. Kazi & Prof. Dr. Farman Ali Shah

Shah Abdul Latif University, Pakistan

**M. Sc.** Microbiology (**Silver Medal**)

Shah Abdul Latif University, Pakistan

**B. Sc.** Microbiology (**Silver Medal**)

### RESEARCH INTEREST

- My research interest includes; Biodegradation and Bioremediation studies for the eco-pollutant such as pesticides, crude oil and oil-based paints at Lab scale (*Ex-situ*) and field scale (*In-situ*).
- Toxicity assessment of eco-pollutants against experimental model organisms like bacteria, fungi, Brine Shrimps larvae (animal) and seed germinating parameters (plants).
- Determination of antimicrobial resistance pattern in clinical isolates.
- Microbial community analysis by metagenomic approaches for the bioremediation of xenobiotics.

## RESEARCH SUMMARY

| Journal articles |             |              |               |          |               |
|------------------|-------------|--------------|---------------|----------|---------------|
| First Author     | Sec. Author | Third Author | Co-author     | Total    | Impact Factor |
| 04               | 05          | 03           | 02            | 14       | 14.6          |
| Conference       |             |              | Workshops     |          |               |
| International    | National    | Total        | International | National | Total         |
| 05               | 0           | 05           | 01            | 07       | 08            |

## RESEARCH PUBLICATIONS

### 2020

Phulpoto IA, Jakhrani BA, **Phulpoto AH**, Panhyar AA, Kanhar NA, Safia A, and Qazi MA, 2020. Enhanced oil recovery by potential biosurfactant producing halothermotolerant bacteria using soil washing and sand-packed glass column techniques. Current Microbiology. 1-10, <https://doi.org/10.1007/s00284-020-02172-3>

**Phulpoto AH**, Maitlo MA, Kanhar NA, 2020. Culture-dependent to culture-independent approaches for the bioremediation of paints: a review. International Journal of Environmental Science and Technology.1-22.  
<https://doi.org/10.1007/s13762-020-02848-0>.

### 2019

Talpur MK, Qazi MA, **Phulpoto AH**, Maitlo MA, Phulpoto IA, Syed FHS, Wasan SA, Saand MA, and Kanhar NA, 2019. Bioprospecting actinobacterial diversity antagonistic to multidrug-resistant bacteria from untapped soil resources of Kotdiji, Pakistan. Biologia, (<https://doi.org/10.2478/s11756-019-00315-x>)

Lal S, Kanhar NA, Kumar P, Parkash O, **Phulpoto AH**, Maitlo MA, Sirohi MH, Mirbahar AA, Ansari AM, Ujjan SA, Ujjan JA, Ruk M, Sapna, Ghoddusi HB, 2019. Effect of sucrose and fat aroma on the perception of sweetness and fattiness of milk, Journal of Biodiversity and Environmental Sciences, 14(6): 70-76

Lal S, Kanhar NA, Kumar P, Parkash O, **Phulpoto AH**, Maitlo MA, Sirohi MH, Mirbahar AA, Ansari AM, Ujjan SA, Ujjan JA, Ruk M, Sapna, Ghoddusi HB, 2019. Production of exopolysaccharide by bifidobacteria and its viscometric analysis, International Journal of Biosciences 14(5): 315-323

Mangi S, **Phulpoto AH**, Qazi MA, Maitlo MA, Channa RA, and Kanhar NA, 2019. Antibiotic Resistance (ABR) Profile of Enterobacter Cancerogenous (NS3-E-8) Isolated from Hospital Associated Samples at Khairpur Pakistan. International Journal of Biology and Biotechnology, 16 (1): 71-78

Larik IA, Qazi MA, **Phulpoto AH**, Haleem A, Ahmed S, and Kanhar NA, 2019. *Stenotrophomonas maltophilia* strain 5DMD: an efficient biosurfactant-producing bacterium for biodegradation of diesel oil and used engine oil. *International Journal of Environmental Science and Technology*, 1-10. <https://doi.org/10.1007/s13762-018-1666-2>

## 2018

**Phulpoto AH**, Qazi MA, Phul AR, Ahmed S, and Kanhar NA, 2018. Ecotoxicological assessment of oil-based paint using three-dimensional multi-species bio-testing model: pre-and post-bioremediation analysis. *Environmental Science and Pollution Research*, pp.1-11. <https://DOI.org/10.1007/s11356-018-1526-0>

Mangi S, **Phulpoto AH**, Qazi MA, Maitlo MA, Channa RA, and Kanhar NA, 2018. Antimicrobial Resistance Profile and Gender Wise Prevalence of *Escherichia Coli* in Clinical Specimen, at Khairpur Sindh, Pakistan. *International Journal of Biology and Biotechnology*, 15 (4): 683-690

## 2017

**Phulpoto AH**, Qazi MA, Mangi S, Ahmed S, Phul AR, and Kanhar NA, 2017. Bioremediation of Oil-Based Paint from Aqueous Media by Novel Indigenous *Brevibacillus parabrevis* Strain NAP3 and its Toxicity Assessment. *Polish Journal of Environmental Studies*, 26(1) 229-237, DOI: 10.15244/pjoes/62905

Ghumro WA, **Phulpoto AH**, Qazi MA, Ahmed S, and Kanhar NA, 2017. Bioremediation of Lambda-cyhalothrin (pesticide) by bacterial strains *Mesorhizobium* sp. (S1B) and *Bartonella elizabethae* (S2B) isolated from cotton crop fields. *Pakistan Journal of Analytical & Environmental Chemistry* 18(2) 112 – 11, DOI.org/10.21743/pjaec/2017.12.119

## 2016

**Phulpoto AH**, Qazi MA, Mangi S, Ahmed S, and Kanhar NA, 2016. Biodegradation of oil-based paint by *Bacillus* species monocultures isolated from the paint warehouses. *International journal of environmental science and technology*, 13(1), pp.125-134. <https://doi.org/10.1007/s13762-015-0851-9>

Mangi S, **Phulpoto AH**, Qazi MA, Kanhar NA, 2016. Antibiotic resistance pattern and gender wise prevalence of *Pseudomonas aeruginosa* strain isolated from the tertiary health care units. *International Journal of Biosciences*, 9(5): 173-182. <http://dx.doi.org/10.12692/ijb/9.5.173-182>

Mangi S, **Phulpoto AH**, Qazi MA, Kanhar NA, 2016. Incidence of multidrug resistant coagulase negative Staphylococci in clinical samples of Tertiary care hospitals of Khairpur and Sukkur cities of Pakistan. International Journal of Biosciences, 9(4):261-269. <http://dx.doi.org/10.12692/ijb/9.4.261-269>

## **CONFERENCE PRESENTATIONS**

- 2017 **Selected for Oral presentation**  
11<sup>th</sup> International Biennial conference of Pakistan society for Microbiology"
- 2017 **Selected for Oral presentation**  
1<sup>st</sup> International Conference on Advance Material and Processing (ICAMP-17)
- 2016 **Selected for Oral presentation**  
1st International Conference & Exhibition of Chemical Engineering CCE-16"
- 2015 **Selected for Oral presentation**  
10th Biennial International Conference of Pakistan Society for Microbiology: Exploring Microbes for Future Endeavours"
- 2014 **Selected for Oral presentation**  
International Conference on Environmental Issues of Sindh and their Remedies,

## **WORKSHOPS**

- 2019 "Dual Use Research of Concern"
- 2018 "Nano Thin Films and Their Applications as Biosensors"
- 2018 "Module IV (NGS Data Analysis"
- 2018 "Module III (Immunoinformatics and Vaccine Design"
- 2018 "Module II (Molecular Modeling and Docking"
- 2018 "Module I (Basic Bioinformatics"
- 2018 "Laboratory safety and biosecurity"
- 2017 "Applications of computational biology in biotechnology"
- 2017 "Current trends in hyphenated techniques and their applications in biological and chemical sciences"
- 2016 "Biochemical Assay for exploration of lead Bioactive Molecules"
- 2015 "Bioinformatics: Tools and Techniques in Modern Research"

## **MEMBERSHIPS**

Life time Member (membership No. 1089), Pakistan Biological Safety Association  
Life time member, Pakistan Society for Microbiology  
Global outreach member, American Society for Microbiology

## PROFESSIONAL EXPERIENCE

### Teaching Assistant (Feb. 2015 to Present)

Institute of Microbiology, Shah Abdul Latif University, Khairpur

### Research Assistant (1<sup>st</sup> Mar 2017 to Present)

Enrolled as Ph.D. scholar in a Higher Education funded project ID: 20-4635 entitled "Investigation of Indigenous paint degrading microorganisms and their environmental applications" at Institute of Microbiology, Shah Abdul Latif University, Khairpur 66020, Sindh, Pakistan.

### Research Assistant (Mar. 2013 to May 2015)

Project entitled: "Isolation, identification and characterization of oil-based paint degrading bacteria from Warehouses of Khairpur and Sukkur Cities" and Project II, Antibacterial activities and Analytical Studies of Indigenous Medicinal Plants of District Khairpur Mir's Sindh, Pakistan" (One year each), at Institute of Microbiology, Shah Abdul Latif University, Khairpur

### Research Associate (1<sup>st</sup> Feb. 2008 to 30<sup>th</sup> April 2008)

Project entitled "Antigenic Variation in Clinical Isolates of *Bordetella Pertussis*, A comparison with vaccine strain" at Department of Microbiology, Shah Abdul Latif University, Khairpur

## REFERENCE

### Prof. Dr. Nisar A. Kanhar

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### Dr. Fateh M. Soomro

Associate Professor  
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### Dr. Muneer A. Qazi

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