

Aftab Ahmad, PhD

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EDUCATION

2013-2019 Ph.D. Biological Sciences COMSATS University, Islamabad,
2007-2010 M.Phil. Env.Science PMAS University of Arid Agriculture, Rawalpindi, Pakistan
2005-2010 M.Sc. Biology, PMAS University of Arid Agriculture, Rawalpindi, Pakistan
2001-2004 B.Sc. Zoology, Chemistry, Botany, Punjab University, Lahore, Pakistan
1998-2000 FSc (pre-medical) BISE Sargodha Pakistan

PROFESSIONAL EXPERIENCE

2019- 2021 Research Associate Microbiology and Public Health Lab
COMSATS University Islamabad.

2018 to 2019 Thesis write up, data organization & submission for publication

2017 to 2018 Research Fellow: Endocrine and Diabetes Center, Affiliated
Hospital of Integrated, Traditional Chinese and Western Medicine,
Nanjing University of Chinese Medicine, Nanjing 210028, China

2013 to 2017 PhD Research work: Molecular/Microbiology & Public Health
Research Lab COMSATS University, Islamabad, Pakistan

2005 to Present Faculty Member (Teacher) Federal Directorate Ministry of
Education & Professional Training, Islamabad.

2008-2009 Lecturer Biology: Islamabad Model College F-7/3 Islamabad

2005-2008 Demonstrator for USAID project “Bilingual”
(Fluent English speaking/reading/writing as a second Language)

Total Research & Teaching Experience at Post graduate level: >10 years

RESEARCH PROJECTS

In my career as a research associate I managed the timely completion of following projects titled:

1. “Developing Protocols for multiplex PCR based Screening and Computational Models for Virulence Factors Associated with *H. pylori* and colibactin (genotoxin) producing *E. coli*”
2. “CIIT-Strengthening Biotechnology Industry in the Country: Developing educational tool kit for training undergraduate students as well as for research purposes: Lab to commercialization”.
3. “CIIT advance Bioinformatics for Genome and Metagenome Analysis and Discovery of Novel Biocatalysts from Extremophiles: Implications for Improving Industrial Bioprocesses”.

RESEARCH INTERESTS

The main focus of my PhD research was to use high-throughput sequencing and other functional genomic technologies to understand the biology and genomic diversity of gut microbiota with significant impact on human metabolic health. Currently I am looking for some funding sources or opportunity to pursue my research interest, specifically; I am interested in study of

1. Virology in association with Disease & Health.
2. Detection and prevention of community spread infectious diseases.
3. Study of the molecular aspects of compromised immunity against hospital acquired viral infections in a community.

ACHIEVEMENTS

1. Higher Education Commission Intl.Research support Grant 2013-2018.
2. I have played a pivotal role for the past 5 years in strengthening the FDE in different roles

ACADEMIC SERVICES

AS Senior Faculty member (2014-2017)		
i	Developing New Programs	Advising HR for Recruiting suitable content
ii	Developing New Courses for existing Programs	Participating Board of Studies Meetings
iii	Member f Board Faculty & Academic Council	Reviewing/Evaluation of student Performance at the end of each term
iv	Taking steps to enhance students creative output	Looking after two campuses where Departments are functional with more than 1000 students for all above mentioned activities
v	Preparing documents for accreditation of programs & Quality Assurance	Coordination with FDE administration and AEO office
vi	Looking after Day to Day affairs of students	Admission Campaign & Selection
vii	Students Evaluations and Assessments	Managing Timetable and Resources

TEACHING PROFILE

Introduced Problem based learning strategies while teaching various Molecular and biochemistry Courses. In addition taught various courses such as

1.	Graduate Courses Taught		
	i	Microbial Forensics	Advances in Molecular biology
	ii	Research Techniques	Advanced Topics in Microbiology
	iii	Fundamentals of Genomics & Proteomics	Medical Microbiology
	iv	Microbial Pathogenesis	Basics of Biology and chemistry
2.	Undergraduate Courses Taught		
	i	Cell Biology	DNA recombinant Technology
	ii	Introduction to Genomics	Microbiology & Immunology

SELECTED PUBLICATIONS

- **Ahmad A**, Almsned F, Ghazal P, Saleet Jafri M, Bokhari H. (2020) Neuropeptide S receptor gene Asn107 polymorphism in obese male individuals in Pakistan PLoS ONE. 15(12).e0243205. <https://doi.org/10.1371/journal.pone.0243205>
- Morsi Y, Zhu T, **Ahmad A**, Xie X, Yu F, Mo X. Electrospinning: An emerging technology to construct polymer-based nanofibrous scaffolds for diabetic wound healing. *Frontiers of Materials Science*. 2021 February 11:1-26 <https://doi.org/10.1007/s11706-021-0540-1>
- Muhammad, S., Nazia, M., **Ahmad, A.**, Muhammad, S., Hamid, A., et al., “Evaluation of inflammatory cytokine and immunohistochemical analysis of cirrhotic liver from HCV patients”. *Pakistan Journal of Zoology*. (2022).
- **Ahmad A**, Yang W, Chen G, Shafiq M, Javed S, Ali Zaidi SS, et al. (2019) Analysis of gut microbiota of obese individuals with type 2 diabetes and healthy individuals. PLoS ONE 14(12): e0226372. <https://doi.org/10.1371/journal.pone.0226372>
- Khan, R., Xiangyang, S., **Ahmad, A.** and Mo, X., 2018. Electrospinning of Crude Plant Extracts for Antibacterial and Wound Healing Applications: A Review. *SM J. Biomed. Eng*, 4(1), pp.1-8.
- Saraf, V. S., Sheikh, S. A., **Ahmad, A.**, Gillevet, P. M., Bokhari, H., & Javed, S. (2021). Vaginal microbiome: normalcy vs dysbiosis. *Archives of Microbiology*, 1-10.

- Tariq H, Noreen Z, **Ahmad A**, Khan L, Ali M, Malik M, Javed A, Rasheed F, Kocagoz T, Sezerman U, Bokhari H., (2022) Colibactin possessing E. coli isolates in association with colorectal cancer and their genetic diversity among Pakistani Population. PLOS ONE. [10.1371/journal.pone.0262662](https://doi.org/10.1371/journal.pone.0262662)
- Ahmed, H., Khan, M.R., Panadero-Fontan, R., Sandez, C.L., Mustafa, I., Ghani, A., Hussain, M., Asif, S., **Ahmad, A.**, Naqvi, S.M.S. and Qayyum, M., 2013. Prevalence of Bovine Hypodermosis in water buffalo (*Bubalus bubalis*) from Jhelum District, Pakistan. *Kafkas Univ Vet Fak Derg*, 19(1), pp.79-84

Under review

- Donia A, Shahid FM, **Ahmad A**, Javed A, Nawaz M, Bokhari H., (2021) Integration of RT-LAMP and Microfluidic Technology for Detection of SARS-CoV-2 in Wastewater as an Advanced Point-of-care Platform" *Food and Environment Virology*.
- **Ahmad, A**; Donia, A; Ali, P; Akhtar, N; Bokhari, H (2020). "Pitfalls in Global Response to COVID-19 and its Impact on Global Health". *WikiJournal of Medicine*.
- Arbab Saddiquea, **Aftab Ahmad**, Asima Azamb, Mashal Naeema, Habib Bokhari., 2021. A comparative study of Recovered and Deceased cases of COVID-19 in Rawalpindi, Pakistan. *Journal of Medical Virology*.
- Noor Ul Ain Malik; **Aftab Ahmad**; Nazia Rehman; Zobia Noreen; Nasim Akhtar; Ramla Shahid; Aneela Javed; Habib Bokhari., 2021. Alteration of Immunomarkers and Relative Telomere Length in COVID-19 Patients. *Journal of Clinical Virology*.

References

1. Dr. Haroon Ahmed

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2. Dr. Habib Bokhari

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3. Sohail Frooq

Sr. Project Engineer

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