

CURRICULUM VITAE OF DR. AGHA ASAD NOOR

PERSONAL

Name: Dr. Agha Asad Noor
Father's Name: Agha Noorullah Khan,
Family / Surname: Pathan
Religion Islam
C.N.I.C. No: 43304-0590732-9
D.O.Birth: December 8, 1964
Nationality: Pakistan
Domicile: Shikarpur Sindh Rural
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ADDRESS FOR CORRESPONDENCE

(Off.) **Professor**, Institute of Microbiology, University of Sindh, Allama I. I. Kazi Campus, Jamshoro Pakistan.

ACADEMIC

2008 **Ph.D. in Biotechnology** from the University of Sindh, Jamshoro, Pakistan.
1997 **M.Phil. in Microbiology** from Quaid-i-Azam University, Islamabad, Pakistan.
1986 **M.Sc. in Microbiology** from University of Sindh, Jamshoro, Pakistan.
1984 **B.Sc. (Hons.) in Microbiology** from University of Sindh, Jamshoro, Pakistan.
1980 **H.S.C. (Intermediate, Pre-Medical)** from Board of Intermediate & Secondary Education, Hyderabad.
1978 **S.S.C. (Matriculation)** from Board of Intermediate & Secondary Education, Hyderabad.

PROFESSIONAL EXPERIENCE

1986-1997 **Lecturer** in Microbiology at Shah Abdul Latif University (SALU), Khairpur.
1997-1999 **Assistant Professor** in Microbiology at Shah Abdul Latif University, Khairpur.
1999-2001 **Assistant Professor** in Microbiology at University of Sindh, Jamshoro (on deputation basis).
2001-2002 **Assistant Professor** at Shah Abdul Latif University, Khairpur
2002 -2011 **Assistant Professor** in Microbiology at University of Sindh Jamshoro, Pakistan
2011-2013 **Associate Professor** in Microbiology at University of Sindh, Jamshoro.
2013-To date **Professor** in Microbiology at University of Sindh, Jamshoro.

EXPERIENCE

1. Teaching Microbiology and Biotechnology since 1986
2. Research activities since 1995 in multi-dimensional studies of life sciences

MEMBERSHIP

1. **Member**, Board of Studies of in Microbiology, University of Sindh, Jamshoro, Pakistan.
2. **Member**, Board of Science Faculty, University of Sindh Jamshoro, Pakistan.
3. **Member**, Senate, University of Sindh Jamshoro, Pakistan.
4. **Member**, Academic Council, University of Sindh, Jamshoro, Pakistan.
5. **Life member** of Pakistan Society for Microbiology.
6. **Member of IAENG**: International Association of Engineers (**Membership No. 123106**).
7. **Member** American Society for Microbiology, USA (**Membership No. 57439986**).
8. **Member**, SCIENCE PAKISTAN (**Membership No. SP-243**).
9. **Member**, Pakistan Biological Society of Pakistan (**Membership No. 1163**)
10. **Member** Editorial Board of FUUAST Journal of Biology.
11. **Member** Editorial Board of the International Journal of Biology and Biotechnology.
12. **Invited** as member Editorial Board of RADS Journal of Biological Research and Applied Sciences, Jinnah University for Women, Karachi, Sindh, Pakistan.

DISTINCTIONS

- 1984 First stood Second in B.Sc. honors.
- 1986 First stood Second in M.Sc. final.
- 1997 Secured **FIRST PRIZE** in poster presentation in Second International Biennial Conference of Pakistan society for Microbiology.
- 2019 Google impact factor 6.29 (Dated 13-03-2019)

RESEARCH ACTIVITIES

1. Research on alcohol production from molasses by *Saccharomyces cerevisiae*
2. Research on viability and growth rate of bacteria
3. Research on poisonous Planktonic Cyanobacteria
4. Research on Protease producing Bacteria
5. Research on In-vitro investigation of *E.coli*
6. Research on physical, chemical and biological studies of soil of Larkana District
7. Research on routine analysis of fresh water and water logged area of Manchar lake
8. Research on antifungal activities of herbal extracts.
9. Research on enhancement of yeast growth for bioethanol fermentation
10. Research on patho-clinical studies of Coliforms *E.coli*
11. Research on isolation, identification and antibiotic Susceptibility of G+ve cocci
12. Research on pure culture study of *Pseudomonas aeruginosa*
13. Research on epidemiological and clinical studies of *Streptococcus pneumoniae*
14. Research on surveillance of nosocomial infections.
15. Research on isolation of major pathogens from body fluids
16. Research on growth biotechnology of yeast strain
17. Research on dose response curve of herbal extracts.
18. Research on micro-algal biodiesel (Review)
19. Research on phosphate solubilization by bacteria
20. Research on Molecular detection of the Hepatitis C virus genotypes
21. Research on Frequency Distribution of Hepatitis C Virus Genotypes
22. Research on Epidemiological study of HCV genotypes

23. Research on Molecular detection of *Entamoeba histolytica*
24. Research on Emergence of carbapenems resistance in *Escherichia coli*
25. Research on Antibacterial activities of tobramycin-nanoparticles
26. Research on microbial spoilage of commercially available fruits
27. Research on ethanol production by yeast from dry date-water
28. Research on *Staphylococcus aureus* and *Klebsiella pneumoniae*
29. Research on prevalence of nosocomial candiduria
30. Research on alkaline protease production from indigenous bacterial isolates
31. Research on Epidemiology of risk factor of MRSA and its resistance to vancomycin.
32. Research on antibiotic based synthesis of silver nitrate nanoparticles and their applications
33. Research on epidemiological and clinical studies of *Streptococcus pneumoniae*
34. Research on antibacterial activities of *Coriandrum sativum* and *Mentha arvensis* extracts
35. Research on comparative study of typhoid fever in different age groups
36. Research on surveillance of potential gram negative pathogens in rural areas
37. Research on bioethanol production by thermo tolerant and chemo tolerant yeast

CURRENT ONGOING RESEARCH

1. Epidemiological studies of various environmental pathogens
2. Epidemiological studies and antibiogram of uropathogens.
3. Population based studies of multidrug resistance bacteria.
4. Comparative studies of the effects of some commercial antibiotics and *Medicago sativa* (alfalfa) extract on *Pseudomonas* and *Staphylococci*.
5. Quantitative studies on microbial contamination of some commercial fruits and vegetables.
6. Serodiagnostic investigation of various infections in Taluka Gambat.
7. Isolation and identification of pathogenic bacteria from biofluids of teen age hospitalized patients.
8. Isolation, identification and in-vitro growth of bacteria and yeast from different exogenous sources and their sensitivity pattern against antibiotics and some indigenous natural products,
9. Determination of synergetic effects of *Momordica charantia* L. and *Citrus limon* L. on bacteria and yeast.
10. Isolation and characterization of bacteria from pus samples of patients in hospital environment.
11. Serodiagnosis of HBV, HCV and HIV in blood donors and patients in Moro, District Nousharo Feroz.
12. Prevalence of Colibacillosis and Salmonellosis coinfection and in slaughtered chickens.
13. Studies of physico-chemical and bacteriological properties of water from Tandoadam canal.
14. Gender wise studies of bacterial otitis media in patients with hearing loss.
15. Physico-chemical and microbiological assessment of water samples of hadero lake, Thatta, Pakistan.
16. *In-vitro* determination of growth and sensitivity pattern of bacterial isolates and yeast against antibiotics and some selected fruits and vegetable extracts.
17. Isolation and identification of isolation and identification of potential pathogens from pleural effusion of hospitalized patients of Bahawal Nagar.
18. Quality assessment of Manchar Lake and Stream water of Lucky Shah Saddar, Sehwan.
19. Detection of most potent bacterial flora from sewage water and soil
20. Isolation and identification of pathogenic bacteria from pus samples.
21. Epidemiological studies and bio-chemical investigations of post-operative wound infections.
22. *In-vitro* studies of the antibacterial activity of *Ocimum sanctum* and *Azadirachta indica* on MRSA, MSSA and VRSA.
23. Isolation and identification of aquatic microbes from various sources of water of Hyderabad city
24. Population based study of food borne antibiotic resistant bacterial isolates from consumers' food samples in Hyderabad.

SUPERVISION & COSUPERVISION OF BS BASED PROJECTS

Name of the Candidate & Institution	Research topic	Status of Degree
Sadia Hanif and Shazia Baloch , Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Patho-clinical studies of Coliforms <i>E.coli</i> : A Model Pathogen of Human Infections	Completed
Saima Jawed and Farhina Khan , Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Isolation, Identification and Antibiotic Susceptibility of G+ve cocci in various Clinical Specimens	Do
Meher-un-Nisa Samo , Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Pure Culture Study of <i>Pseudomonas aeruginosa</i> from Clinical Specimens.	Do
Nazir Ahmed Brohi , Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Epidemiological and Clinical Studies of <i>Streptococcus pneumoniae</i>	Do
Rakhshanda Parveen, Shagufta Bano, Razia Muneer and Muhammad Faisal , Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Surveillance of nosocomial infections in Hyderabad city	Do
Alia Shaikh, Mehwish Fatima, Sabeen Ghouri and Samina Channar , Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Isolation of major pathogens from body fluids	Do
Abdul Ghaffar Memon, Adnan Ahmed Memon, Iftikhar A. Kalwar and Gulab Das , Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Studies on Dose Response Curve of various herbal extracts and commercially available antibiotics on clinical isolates	Do
Hira Mustafa and Farheen Mustafa , Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Micro-algal biodiesel: A new trend towards biofuel technology (Review)	Do
Abdul Rehman Khaskhely, Munawar Ali Khaskhely and Salman Muhammad Soomar , Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Some studies on microbial spoilage of commercially available fruits	Do
Ammar Ali Awan, Mujeeb-ur-Rehman Khohro, Kashif Ali Arain, Sanaullah Bhatti , Institute of Microbiology, University of Sindh Jamshoro, Pakistan	In-vitro studies of <i>Staphylococcus aureus</i> and <i>Klebsiella pneumoniae</i> from clinical isolates	Do
Ifra Khan and Fatima Noor Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Isolation and characterization of major bacterial isolates from garden soil and sewage water	Do
Bisma Aziz and Rattan Kumar Menghwar Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Detection of potent bacterial pathogens from post operated pus samples from hospitalized patients.	Do
Sajad Ali Bhugio Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Epidemiological survey of HIV, HBV, HCV and Co-infection of Diabetes: A Review Report.	Do
Afifa, Sania, Tayyaba, Wadiha and Darpan Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Isolation and identification of drug resistant bacteria and their molecular detection of resistant gene. (REVIEW REPORT)	Do
Afifa Hallo . Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Review on Antibiotics and its classification (Section)	Do
Sania Arain . Institute of Microbiology, University	Review on uses, mode of action of antibiotics. (Section)	

of Sindh Jamshoro, Pakistan		Do
Wadiha Shaikh. Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Review on resistance pattern of Gram positive and Gram negative bacteria. (Section)	Do
Tayyaba Siddiqui. Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Review on antibiotic resistance and its types. (Section)	Do
Darpan Kumar. Institute of Microbiology, University of Sindh Jamshoro, Pakistan	Review on molecular detection of antibiotic resistance gene. (Section)	Do

HONOURARY CO-SUPERVISION OF MS / M.PHIL. PROJECTS

Name of the Candidate & Institution	Research topic	Status of Degree
Mr. Shafique Ahmed Rind Shah Abdul Latif University, Khairpur, Sindh, Pakistan.	Isolation, Identification and Occurrence of Medically Important Fungi Keratinophilic Fungi from the soil of District Larkana.	Completed
Ms. Shahida Mangi, Shah Abdul Latif University, Khairpur, Sindh, Pakistan.	Effect of Herbal Medicinal Plants on Dermatophytes.	Do
Mr. Muhammad Ali Bhatti Center for Environmental Studies, University of Sindh, Jamshoro, Sindh, Pakistan.	Physico-Chemical and Bacteriological Studies of Pharmaceutical Effluents from Hyderabad Division".	DO

LIST OF RESEARCH SCHOLARS (MS/M.PHIL)

S. No.	Name of the Candidate	Research topic	Year of registration	Year of completion	Supervision
1	Kashif Ali Jandan	Ethanol production by yeast from dry date-water with and without sodium formaldehyde sulfoxylate / runkaat	2013	2015	Supervisor
2	Muhammad Ashraf Sial	Prevalence of nosocomial candiduria in Khairpur District	2013	2015	Do
3	Barkat Ali Solangi	Alkaline protease production from indigenous bacterial isolates by shake flask method	2013	2015	Do
4	Sayed Zaheer Abbass	Extraction of some natural food preservatives from various indigenous plants and determination of their anti-bacterial activities	2015	2017	Do
5	Bashir Ahmed Mahar	Surveillance of potential gram negative pathogens in various clinical specimens of rural areas of Shikarpur.	2015	2018	Do
6	Muhammad Waqar	Detection of Hepatitis-D Virus RNA in Hepatitis-B Virus DNA Positive Patients Using Modern Molecular Techniques.	2015	2017	Do

7	Mubarak Zeb	Frequency and antifungal susceptibility pattern of <i>candida species</i> in different clinical isolates	2015	2018	Do
8	Maqsood Masih	A comparative study of typhoid fever in different age groups at Hyderabad city	2013	2017	Co-supervisor
9	Zaheer Ahmed Shaikh	Determination of synergetic effects of <i>Momordica charantia</i> L. and <i>Citrus limon</i> L. on bacteria and yeast	2017	Thesis submitted	Supervisor
10	Zohaib Ali Jatoi	Serodiagnosis of HBV, HCV and HIV in blood donors and patients of taluka Moro, District Noushahro Feroz	2017	Do	Do
11	Jan Muhammad Bughio (Center for Env. Sciences,	Some studies of physicochemical and bacteriological properties of water from Tando Adam canal.	2014	Do	Co-supervisor
12	Sajid Ali Yousufzai	Isolation and identification of pathogenic bacteria from biofluids of teen age hospitalized patients in Peshawar.	2016	Waiting for the award of degree	Supervisor
13	Rana Asgher Ali	Quantitative studies on microbial contamination of some commercial fruits and vegetables	2016	Do	Do
14	Rizwana Khanzada	Gender wise studies of bacterial otitis media in patients with hearing loss	2018	Waiting for final viva	Do
15	Saima Chandio (Center for Env. Sciences)	Eco-biological assessment of Hadero lake water district Thatta, Sindh, Pakistan	2014	Thesis submitted	Co-supervisor
16	Muhammad Zulqarnain	Isolation and identification of potential pathogens from pleural effusion of hospitalized patients of Bahawalnagar	2016	Do	Do
17	Atif Hussain Soomro	Isolation and identification of aquatic pathogens from various sources of water of Hyderabad city	2015	Under progress	Do
18	Zahid Hussan Mirani	Quality assessment of Manchar Lake and stream water of Lucky Shah Saddar, Sehwan, District Jamshoro, Sindh.	2018	Do	Do
19	Vivik Ananad	Comparative studies of the effects of some selected commercial antibacterial antibiotics and <i>Medicago sativa</i> (Alfalfa) extract on <i>Pseudomonas</i> and <i>Staphylococcus</i> species	2019	Do	Do
20	Zahoor Ahmed Bhambhro (Center for Env. Sciences)	Isolation and characterization of bacteria from pus samples of patients in hospital environment.	2017	Waiting for final seminar	Do
21	Sagheer Hussain Shah	Serodiagnostic investigation of common infections in Taluka gambat	2016	On thesis submission	Do

LIST OF RESEARCH SCHOLARS (PH.D.)

S. No.	Name of the Candidate	Title	Year of registration	Year of completion	Supervision
22	Yasmeen Junejo	Antibiotic based synthesis of silver nanoparticles and their applications	2009	2014	Co-Supervisor
23	Shafique Ahmed Rind (SALU, Khairpur)	Bio-ethanol production by thermotolerant and chemo tolerant yeast from sugar substrates	2012	2021	Do

24	Wajahat Hussain Shah. (Center for Env. Sci, SUJ)	Epidemiological studies of various environmental pathogens among the patients of various age groups in Karachi city	2014	Waiting for final viva	Do
25	Nazir Ahmed Brohi	Molecular study and epidemiology of risk factor of methicillin resistant <i>staphylococcus aureus</i> (mrsa) and its resistance to vancomycin	2014	2019	Supervisor
26	Ms. Sanam Dehraj	<i>In-vitro</i> determination of growth and sensitivity pattern of bacterial isolates and yeast against antibiotics and some selected fruits and vegetable extracts.	2016	Under progress	Do
27	Muhammad Ashraf Sial	A population based study of persistence, antibiogram and determination of antibacterial activity of <i>azadirachta indica</i> and <i>ocimum tenuiflorum</i> extracts on multidrug resistant gram negative bacteria isolated from urinary tract infections in Khairpur District.	2017	Do	Do
28	Rasheed Ahmed Soomro	Epidemiological studies, isolation, identification and antibiotic profiling of uropathogens of hospitalized patients of hyderabad and jamshoro.	2016	Do	Do
29	Altaf Hussain Ghumro	Epidemiological studies and bio-chemical investigations of post-operative wound infections of hospitalized patients at Nawabshah.	2017	Do	Do
30	Azizullah Qureshi	Epidemiological studies of potent bacterial pathogens in periodontitis and antibacterial activity of commercial antibiotics and natural products on clinical isolates.	2019	Do	Do
31	Inayat Ali Zardari	Microbial investigations and chemical assessment of breast abscess of hospitalized patients and antibiotic profiling of multidrug resistance bacteria	Registered in 2020	Do	Do
32	Mubarak Zeb	Galactomannan and (1-3)- β -DGlucan based detection for the early diagnosis of invasive Aspergillosis in elderly age patients.	Do	Do	do

PROFESSIONAL ACTIVITIES

2007-2008 External examiner at Sindh Agriculture University (SAU) Tandojam, Pakistan.

2009 Research guide for postgraduate studies at the Department of Microbiology, Shah Abdul Latif University, Khairpur (SALU-KHP.).

Research guide / supervisor for postgraduate studies in Microbiology at University of Sindh, Jamshoro (UoS-JAM).

Co-guide / co-supervisor for postgraduate studies in National Center of Excellence in Analytical Chemistry, UoS-JAM, Sindh.

External Examiner at Mehran University of Engineering & Technology (MUET), Jamshoro.

- “Postdoctoral fellow”** in the yeast Research Group at Abertay University, Dundee, Scotland with Professor Graeme M. Walker.
- External Examiner** to conduct the subject GRE examination at SALU-KHP., Sindh.
- Appointed as **In-charge Chairman**, Department of Microbiology, University of Sindh, Jamshoro.
- 2010 External Examiner** at the Department of Environmental Engineering, MUET, Jamshoro.
- 2011-12 External Examiner** for assessment of 02 M.Phil. thesis of the Center for Advanced Vaccinology and Biotechnology, University of Balochistan, Quetta, (CASVAB-UoB-QTA).
- External Examiner** to conduct subject GRE examination SALU-KHP., Sindh.
- External Examiner** at the Department of Environmental Engineering, MUET, Jamshoro
- External Examiner** of the Department of Microbiology, UoB-QTA.
- Appointed as **Associate Professor** in the Microbiology, University of Sindh Jamshoro, Pakistan.
- Appointed as **Chairman**, Department of Microbiology, University of Sindh, Jamshoro.
- External expert** and **Member** of the Selection Board of SAU, Tandojam, Sindh Pakistan.
- External Examiner** at CASVAB-UoB-QTA
- External Examiner at MUET**, Jamshoro
- External Examiner** of Faculty of Pharmacy, Gomal University, D.I.Khan, KPK
- External Examiner** at SAU, Tandojam, Sindh.
- Conducted Ground water Analysis of *E.coli* and total coliforms** on the request of Abdul Ghaffar & sons, Government Contractor for 132 kV Tando Bago Grid Station, Hyderabad, Pakistan.
- Invited** as member of Development and Peer review of content for NTS databank by National Testing Service.
- Member** of the Selection Board committee of the University of Sindh, Jamshoro.
- 2013 External Examiner** at CASVAB-UoB-QTA.
- External Examiner** at SAU, Tandojam, Sindh.
- External Examiner** at MUET, Jamashoro, Sindh.
- Member** of the Selection Board Committee of the University of Sindh, Jamshoro.
- Member** of the Selection Board Committee of the University of Sindh, Jamshoro.
- Appointed as **Professor** in the Department of Microbiology, University of Sindh Jamshoro, Pakistan.
- Nominated** as member of the **Panel of Examiners** for Federal Public Service Commission, Islamabad.
- 2014** Services up-graded from the **Chairman** to **Director**, Institute of Microbiology, UoS-JAM., Sindh.
- External Examiner** at CASVAB-UoB-QTA.
- External Examiner** at MUET, Jamshoro, Sindh.
- 2015 External Examiner** at SAU, Tandojam, Sindh, Pakistan.
- External Examiner** at SALU-KHP.
- Subject Specialist** for the Selection Board of the University of Haripur, Khyber Pakhtunkhwa.
- Expert** for the assessment of service profile of faculty members of CASVAB-UoB-QTA.
- 2016 External Examiner** SALU-KHP.
- External Examiner** at SAU, Tandojam, Sindh.

- 2017** **External Examiner** at SALU-KHP.
External Examiner at CASVAB-UoB-QTA.
External Examiner at University of Karachi, Karachi, Sindh.
External Examiner at SAU, SAU, Tandojam, Sindh.
Taught Microbiology I and II at Center of Environmental Sciences, UoS, Jamshoro, Sindh.
- 2018** **External Examiner** at CASVAB-UoB-QTA.
External Examiner SAU, Tandojam, Sindh.
External Examiner at SALU-KHP., Sindh.
External Examiner at MUET, Jamshoro, Sindh.
Taught Medical Microbiology & Immunology and Applied Microbiology (Minor Courses) at Center of Environmental Sciences, University of Sindh, Jamshoro, Sindh.
- 2019** **External Examiner** at CASVAB-UoB-QTA.
External Examiner at Sardar Bahadur Khan Women's University, Quetta.
External Examiner at Jinnah University for Women, Karachi, Sindh.
External Examiner SAU, Tandojam, Sindh.
Paper setter and Examiner of Sindh Public Service Commission, Hyderabad
External Examiner at Dadabhoy Institute of Higher education, Karachi.
Appointed as paper setter for Federal Public Service Commission.
Appointed as Book reviewer by HEC Islamabad
- 2020** **External Examiner** at CASVAB-UoB-QTA
External Examiner at Federal Urdu University of Art, Science and Technology, Karachi, Pakistan
External Examiner of M.Phil. thesis evaluation of the University of Karachi.
Paper setter and Examiner of Sindh Public Service Commission, Hyderabad
- 2021** **Internal Examiner** S. A. L. University, Kairpur, Sindh, Pakistan (Final Ph.D. open defense).
External Examiner S. A. L. University, Kairpur, Sindh, Pakistan (Final Ph.D. open defense).

REVIEWED MANUSCRIPTS

- 2014** PJAC-231209-03 of Pakistan Journal of Analytical and Environmental Chemistry, (NCEAC), University of Sindh, Jamshoro, Sindh, Pakistan.
- Solulization of phosphate in the rhizosphere of wheat of National Institute of Agriculture, Sindh Agriculture University, Tandojam, Sindh, Pakistan.
 - Production and Purification of Pyocin from a Soil Associated *Pseudomonas Aeruginosa* Strain SA 188, of Pakistan Journal of Agricultural Sciences, University of Agriculture, Faisalabad, Pakistan (No. PJAS: 2108).
 - Pesticide Lambda-Cyhalothrin Degradation By *Mesorhizobium* Sp. (S1b) And *Bartonella Elizabethae* (S2b) Strains Isolated From Cotton Crop.
- 2015** Value addition of agro-residues for alpha-amylase production through bioconversion of University of Agriculture Faisalabad, Punjab, Pakistan.
- ♦ Production of Isoprenoid Advanced Biofuels on Synthetic Biology and Metabolic Engineering of University of Sargodha, Punjab, Pakistan.

- ◆ Bioassay screening, standardization and phytochemical investigation of *Desmodium podocarpum* of University of Peshawar, Khyber Pakhtoon Khwa, Pakistan.
- ◆ Value addition of agro-residues for alpha-amylase production through bioconversion
- 2017** Molecular and serological study of Caprine and Ovine Brucellosis in District Peshawar”.
- 2018** Microbial cellulases production, applications and challenges.
Isolation and characterization of bacteria isolated from the rice crop in lower Sindh.
- 2019** Estimation of Executive Extension Needs of Rural Women in the field of Rationalizing Food Consumption Using Broach's.
Assessment of oral health related knowledge, attitude, and self-reported Practices of families residing in Peshsawar, Pakistan
- 2020** Frequency of bacterial microorganisms in exudative pleural effusion.
Effects of organic and inorganic fertilizers on Sweet Potato Production in Iwo, Nigeria
- 2021** Influences of Fertilizer Timing on Performance of Sesame Yield and Yield Components in Niger, Nigeria.
Comparative evolution of animal and human corona viruses, its varieties and their virulence

REVIEWED RESEARCH PROJECTS (NRPU-2016)

Reviewed **17 research projects** of National Research Program for Universities (**NRPU**) as peer reviewer; appointed by Higher Education Commission (HEC), Islamabad, Pakistan.

- 1) Integrated micro algal cultivation for environmental remediation and bioenergy production
Elucidation of Larvicidal Effects of Metallic Nano-Particles against Vectors causing Malaria and Dengue Fever.
- 2) Treatment of iron mine tailing with iron oxidizing bacteria and *Sesbania sesdan* plant in lab and field scale.
- 3) Formulation and commercialization of a Biodetergent using psychrotolerant undustrial enzymes
- 4) Assessment of water soluble derivatives of chlorophyll as potential photosensitizers for drinking water disinfection
- 5) Biotechnological explorations of bacterial extremophiles for industrially important enzymes
- 6) Evaluation of Blood Brain Barrier permeability and Neurotoxicity of Pyocyanin during *P. aeruginosa* infection and Development of Anti-PCN Therapeutic Approaches
- 7) Preclinical Studies of Antibacterial Nano-carriers (ATNs); Real Time Effect of the ATNs on Bacterial Colonization
- 8) Enhancement of methane production in two stage anaerobic digestion by a novel process using recirculation off biogas along with hydrogen supply
- 9) Development of microbial enzyme based biosensors for monitoring pollutants in industrially linked agricultural areas.
- 11) Design, fabrication and performance evaluation of bio-iets: biofilm-based industrial effluent treatment systems for the treatment of sugar mill effluents (smes)
- 12) Metagenomic analysis of biomedical waste: a potential source of disseminating multi-drug resistance in the environmental microbiome
- 13) Synthesis of biodegradable bio plastics using animal, plant and microbial based raw materials

- 14) Development of epigenetic biomarkers for early detection of nasopharyngeal carcinoma in Baluchistan
- 15) Molecular characterization and epidemiology of extended-spectrum β -lactamase (esbl)
- 16) Controlling the virulence of pathogenic bacteria by local medicinal plants
- 17) Oil degrading and bio surfactant producing bacterial strains: their impact on environmental cleanup

REVIEWED RESEARCH PROJECTS (NRPU-2017-18)

Reviewed **14 research projects** of National Research Program for Universities (**NRPU**) as peer reviewer; appointed by Higher Education Commission (HEC), Islamabad, Pakistan.

- 1) Value addition of agro-residues for alpha-amylase production through bioconversion of University of Agriculture Faisalabad, Punjab, Pakistan.
- 2) Production of Isoprenoid Advanced Biofuels on Synthetic Biology and Metabolic Engineering of University of Sargodha, Punjab, Pakistan.
- 3) Bioassay screening, standardization and phytochemical investigation of *Desmodium podocarpum* of University of Peshawar, Khyber Pakhtoonkhwa, Pakistan.
- 4) Drug Resistance Profiling of Antagonistic Bacteria and Molecular Insight into their Respective Mechanisms to Select Eco-Safe Ingredients of Biopesticide.
- 5) Microbial assisted phytoremediation of polybrominated diphenyl ethers from contaminated soil.
- 6) Biodegradation potential of cellulytic bacteria isolated from termite gut for organic waste management.
- 7) Removal of Heavy Metals by Metallo-Resistant Microorganisms and Development of Microbial Sensor Cell System to Monitor Cadmium and Mercury in the Environment.
- 8) Development of diagnostic biomarker for circulating varicella strains in Pakistan.
- 9) Nitrogen removal and bioelectricity production from industrial wastewater through anammox up-flow microbial fuel cell process integrated degradation processes for chlorinated pesticides in aqueous media.
- 10) Transforming food waste into commercializable polyhydroxyalkanoates.
- 11) Identification of air pollutants effects, cultivated community mobilization coupled with initiatives in Abbottabad and Hattar industrial estate.
- 12) Utilization of poultry feather waste by keratinases producing microorganisms for production of sustainable value-added products and biogas.
- 13) Screening of the bacterial community structure in a biofloc technology (BFT) based aqua culture of *Ctenopharyngeodon idella* under varying low cost wastes as C source.
- 14) Reviewed annual report of NRPU project Molecular and biochemical studies of rhizobial strains to improve growth and yield of chickpea.

REVIEWED ANNUAL REPORTS

1. Reviewed annual report of NRPU project Enhancement of methane production in two stage anaerobic digestion by a novel process using recirculation of biogas along with hydrogen supply.
2. Reviewed annual report of NRPU project investigation of modified metal sulfide composites for hydrogen production from water splitting
3. Development of microbial enzyme based biosensors for monitoring pollutants in industrially linked

4. Agricultural areas. Molecular and biochemical studies of rhizobial strains to Improve growth and yield of chickpea
5. Design, fabrication and performance evaluation of Bio-IETS: Biofilm-based industrial effluent treatment systems, for the treatment of Sugar Mill Effluents (SMEs)
6. Utilization of poultry feather waste by keratinases producing microorganisms for production
7. of sustainable value-added products and biogas

REVIEWED MANUSCRIPTS

- 2014** PJAC-231209-03 of Pakistan Journal of Analytical and Environmental Chemistry, (NCEAC), University of Sindh, Jamshoro, Sindh, Pakistan.
- Solubilization of phosphate in the rhizosphere of wheat of National Institute of Agriculture, Sindh Agriculture University, Tandojam, Sindh, Pakistan.
 - Production and Purification of Pyocin from a Soil Associated *Pseudomonas Aeruginosa* Strain SA 188, of Pakistan Journal of Agricultural Sciences, University of Agriculture, Faisalabad, Pakistan (No. PJAS: 2108).
 - Pesticide Lambda-Cyhalothrin Degradation By *Mesorhizobium* Sp. (S₁b) And *Bartonella Elizabethae* (S₂b) Strains Isolated From Cotton Crop.
- 2015** Value addition of agro-residues for alpha-amylase production through bioconversion of University of Agriculture Faisalabad, Punjab, Pakistan.
- ◆ Production of Isoprenoid Advanced Biofuels on Synthetic Biology and Metabolic Engineering of University of Sargodha, Punjab, Pakistan.
 - ◆ Bioassay screening, standardization and phytochemical investigation of *Desmodium podocarpum* of University of Peshawar, Khyber Pakhtoon Khwa, Pakistan.
 - ◆ Value addition of agro-residues for alpha-amylase production through bioconversion
- 2017** Molecular and serological study of Caprine and Ovine Brucellosis in District Peshawar”.
- 2018** Microbial cellulases production, applications and challenges.
Isolation and characterization of bacteria isolated from the rice crop in lower Sindh.
- 2019** Estimation of Executive Extension Needs of Rural Women in The Field of Rationalizing Food Consumption Using Broach's

CONTRIBUTIONS

- 1989** 8th **Pre service training** at NAHE-U.G.C. Islamabad, Pakistan.
4th **regional workshop on cloned gene products** (a DNA recombinant technology) at the Centre for Advanced Molecular Biology (CAMB, now CEMB), University of the Punjab, Lahore, Pakistan
- 1994** 22nd **Postgraduate training** course at National Institute of Agriculture and Biology (NIAB), Faisalabad, Pakistan.
6th **National Chemistry Conference** at Shah Abdul Latif University, Khairpur, Sindh, Pakistan.
- 1996** **Delivered a seminar** on “Merits and demerits marine microorganism” at Quaid-i-Azam University, Islamabad.
7th **International Symposium** on Non-Legumes (BNF) at National Institute of Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan.

- 1997 Presented poster** in second international biennial conference of Pakistan Society for Microbiology (SIBC-PSM) at Bhurbhan, Pakistan, in September 24-26, 1997.
- Lecture series.** Seminars on rational approach to the treatment of male infertility at Quaid-i-Azam University, Islamabad, Pakistan.
- Post PSM workshop** on Tissue culture techniques: Viral isolation and characterization at National Institute of Health, Islamabad, Pakistan
- Inaugural International Conference** on Genetics of Pakistan Genetical Society, National Agriculture Research Center, Islamabad, Pakistan.
- 4th LMC Symposium** on Globalization of Health, Care a Multisectorial approach at Liaquat Medical College, (now Liaquat University of Medical and Health Sciences), Jamshoro, Pakistan.
- 1999 6th Congress** of Asia Pacific Association of Societies of Pathologists (APASP) and 23rd Annual conference of Pakistan Association of Pathologist (PAP) at the Aga Khan University, Karachi, Pakistan.
- 2000 Workshop** on the technology for products development from medicinal plants at Haji Ebrahim Jamal (H.E.J) Research Institute of Chemistry, Karachi, Pakistan
- 6th National Symposium** on Analytical and Environmental Chemistry at National Center of Excellence in Analytical Chemistry (NCEAC), University of Sindh Jamshoro, Pakistan.
- Dental Symposium** at Jinnah Medical and Dental College, Karachi, Pakistan.
- 2002 2nd International and 12th National Chemistry Conferences** at at National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro, Pakistan.
- In-service training program** of *Biotechnology* at University of Sindh Jamshoro, Pakistan.
- National Health Sciences Research Symposium** on Early Childhood Care and Development at the Aga Khan University, Karachi, Pakistan.
- 2003 7th National Symposium** on Analytical and Environmental Chemistry at the University of Sindh Jamshoro, Pakistan.
- Pakistan-Bangladesh-Iran International Seminar** on Analytical Sciences at National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro, Pakistan.
- 1st International and National Symposium** on Biotechnology at University of Sindh, Jamshoro, Pakistan.
- 2004 In-service training program** of Biochemistry at the University of Sindh, Jamshoro, Pakistan.
- 2005 Presented research article** (poster) in 9th International Symposium on Natural Product Chemistry at H.E.J. Institute of Chemistry, University of Karachi, Pakistan.
- 5th International Biennial Conference** of Pakistan Society for Microbiology, Karachi, Pakistan.
- University-Industry Interaction Seminar** on Prospects of University Research for the Development of Oil and Soap Industry at National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro, Pakistan.
- 8th Symposium** on Analytical and Environmental Chemistry at National center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro, Pakistan.
- Pre-symposium workshop** on Continuous Quality Improvement in Health Sciences Education at the Aga Khan University, Karachi, Pakistan.
- 10th National Health Sciences Research Symposium** on Health Sciences Education Trends, Opportunities and Challenges at the Aga Khan University, Karachi, Pakistan.
- Presented poster** in 3rd International Symposium on Biotechnology at the University of Sindh of Sindh Jamshoro, Pakistan.

- Presented poster** in International Conference on Environmental Horizons at the Department of Chemistry and International Center for Chemical sciences, University of Karachi, Pakistan.
- 2006** **1st International Conference** on Informatics and Biotechnology at Balochistan University of Information Technology and Management Sciences, Quetta, Pakistan.
- National Workshop** on Biotechnology Training Activities in Allergy Vaccines Development in Pakistan at Dr. Panjwani Center for Molecular Medicine & Drug Research, University of Karachi.
- Successfully completed on-line examination** on Human Participant Protections Education for Research of National Cancer Institute, U.S. National Institute of Health during National Workshop on Biotechnology Training Activities in Allergy Vaccines Development in Pakistan at Dr. Panjwani Center for Molecular Medicine & Drug Research, University of Karachi.
- Workshop** on “Advances in Mycology” at the Institute of Botany, University of Sindh, Jamshoro.
- 2007** **1st International symposium** and workshop-cum-training course on Molecular Medicine and Drug Research at Karachi and Islamabad.
- 1st National workshop** on “Food Processing” at the Chemical Engineering Department, Mehran University of Engineering and Technology, Jamshoro.
- 6th International Biennial Conference** of Microbiology at Quaid-i-Azam University, Islamabad.
- 2nd International Seminar** on Analytical Sciences at University of Sindh Jamshoro.
- 2009** **Attended 5th International Symposium** on Biotechnology at Institute of Biotechnology & Genetic Engineering, University of Sindh Jamshoro, Pakistan.
- Attended 1st National Conference** of Microbiology at Shah Abdul Latif University, Khairpur, Sindh Pakistan.
- Attended one day seminar** on Recovery of Value Added Products from Waste at the Department of Chemical Engineering, Mehran University of Engineering & Technology, Jamshoro in collaboration of the Institute for the Environment, Brunel University, UK.
- 2012** Invited as a Resource Person to deliver a talk on “**Microbes: The Need of Today**” in 1st National Symposium on New Horizons of Microbiology (**Steps of Microbes on the Ladder of Life**) at Fedral Urdu University of Arts, Science and Technology, Karachi, Pakistan.
- 2013** Attended **HEC International workshop on curriculum development** at the Department of Environmental Sciences, University of Karachi, Karachi, Pakistan.
- Attended **16th PHL Annual Symposium** “Hypertension encountering the silent killer “.
- Successfully completed **ASM-KU National Microbiology Teachers Training Workshop** at Karachi-University Bioresource Center, University of Karachi, Karachi, Pakistan.
- 2014** Successfully completed **International workshop on modern techniques in structural biology** at Dr. Panjwani Center for Molecular and Drug Research (International center for Chemical and Biological Sciences), University of Karachi, Karachi, Pakistan.
- Invited as a **Guest Speaker** to deliver a talk on “**Microbial Technology**” with emphasis of the future development of Pakistan” at Sargodhian Spirit Public School, Rashidabad, Tando Allahyar, Sindh Pakistan.
- 2016** **Attended** 13th Annual conference of Medical Microbiology and Infectious Disease Society 25-26th March, 2016 at Lahore.
- Invited as “**Visiting Speaker**” in Guest Hour to deliver a talk on Applications of Biotechnology and Applied Sciences at the Department of Chemical Engineering, Mehran University of Engineering & Technology, Jamshoro, Pakistan.

- Invited as “**HEC-Resource Person**” to deliver a talk on Biotechnology in prospective of disease diagnosis and vaccine development at the Center for Advanced Vaccinology and Biotechnology (CASVAB), University of Balochistan, Quetta, Pakistan.
 - **Presented Poster** on Frequency of the occurrence of MRSA infections in 13th Medical Microbiology & Infectious Disease Conference 25-26 March at Lahore.
 - **Attended** 4th International LUMHS Dental Conference 28-29, October, 2016.
- 2017** Invited as **Guest Speaker** to talk on “Environmental Issues” on Earth Day Celebration on 18th April, 2017 at the Institute of Environmental Engineering, Mehran University of Engineering & Technology, Jamshoro, Pakistan.
- **Participated** in 3-day interactive skill development workshop on quality assurance procedures, plagiarism and advanced ICT skills for researchers from 2-4 August, 2017 at University of Sindh, Jamshoro, Pakistan.
 - Invited as **Guest Speaker** to talk on “Biotechnology of genetically modified foods” during three days training workshop on Bio & Food Processing from 23-25th August, 2017 at the Institute of Environmental Engineering, Mehran University of Engineering & Technology, Jamshoro, Pakistan.
 - **Invited** as “**Key note speaker**” to deliver a talk on “Food Microbiology and Biotechnology” in 11th International Conference of Pakistan Society for Microbiology “Applied Microbial Genomics in Public Health, Food, Pharma and Agriculture 18-20 December, 2017 at Bahahuddin Zakariya University Multan, Pakistan.
 - **Attended** 11th International Biennial Conference of Pakistan Society for Microbiology “Applied Microbial Genomics in Public Health, Food, Pharma and Agriculture 18-20 December, 2017 at Bahahuddin Zakariya University Multan, Pakistan.
 - **Chaired** a full session in 11th International Conference of Pakistan Society for Microbiology “Applied Microbial Genomics in Public Health, Food, Pharma and Agriculture 18-20 December, 2017 at Bahahuddin Zakariya University Multan, Pakistan.
 - **Invited as Reviewer** of Journal of Liaquat University of Health and Medical Sciences (JLUMHS).
- 2018** **Submitted research project** on “Emergence of the risk factors of life threatening bacterial and viral diseases and multidrug resistance bacteria in Hyderabad division” in NRPU-2018.
- 2019** **Presented** research article “Antibacterial activity of *Momordica charantia* L. and *Citrus limon* L. on Gram positive and Gram negative bacteria” in 12th International Conference of Pakistan Society for Microbiology February 20-22, 2019 at Abbottabad University of Science and Technology, Abbottabad.
- **Delivered** a key note a talk on “Epidemiological studies and prevalence of Nosocomial Candidiasis in Khairpur District” in 12th International Conference of Pakistan Society for Microbiology February 20-22, 2019 at Abbottabad University of Science and Technology, Abbottabad.
 - **Completed** three-days WHO Training on Laboratory Quality Management System (LQMS) and Biosafety from 27-29 August, 2019.
 - **Presented** poster in the International Conference on Applied Biosciences *ICAB-2019) at Muhammad Ali Jinnah University, Karachi on 5-6 December, 2019.
 - **Delivered** a talk in the International Conference on Applied Biosciences *ICAB-2019) at Muhammad Ali Jinnah University, Karachi on 5-6 December, 2019.

- **Facilitated three-days** Training on Laboratory Quality Management System (LQMS) and Biosafety Oct. 8-10, 2029 at University of Sindh Jamshoro.
- **Successfully completed** One Day Biosafety & Biosecurity Workshop of PBSA Sindh Chapter on 15th Dec., 2019

2020 Completed three-day Hands-on workshop on “Development of snake bite diagnostic” at Barret Hodgson University, Karachi Pakistan from 22-24 January, 2020.

EXPERIENCE

- 1999** Worked as Supervisor in the Diagnostic and Research Laboratory, Department of Microbiology, Shah Abdul Latif University, Khairpur, Sindh, Pakistan (SALU-KSP).
- 1987-1990** In-charge Departmental Seminar Library for four years at (SALU-KSP).
- 1987-1994** In-charge Pakistan Study Tours of Department of Microbiology, (SALU-KSP).
- 1992-1994** Ex-Officio (Quiz & debates) of the Department of Microbiology, (SALU-KSP).
- 1997-1999** In-charge, scientific store of the Department of Microbiology, (SALU-KSP).
- 1999** Arranged a blood donation camp with the collaboration of Khairpur Health Education & Environmental Society (KHEES), Khairpur and the Diagnostic and Research Center of Microbiology Department (SALU-KHP).
- 1999-2001** In-charge Seminar Library, Laboratories, Ex-officio activities of the Department of Microbiology, University of Sindh, Jamshoro, Pakistan **during deputation period** (1999-2001) at University of Sindh, Jamshoro.

EVENTS ORGANIZED

- 2005** Organized **1st National Symposium on Microbiology** “Microbes: Foes or Friends” as Organizing Secretary at the University of Sindh Jamshoro Pakistan from 19-20 April, 2005.
- 2010** Organized **2nd National Symposium on Microbiology** “New Trends and Advancement in Microbiology” as Organizing Secretary at University of Sindh Jamshoro from 18-20th March 2010.

COURSES TAUGHT

COURSES TAUGHT TO BS (Four years Program)

- 1) General Microbiology, General Immunology, Microbial Taxonomy, General Virology
- 2) Soil Microbiology, Mycology, Environmental Microbiology, Industrial Microbiology
- 3) Microbial Anatomy & Physiology, Medical Bacteriology, Dermatology (Mycosis)
- 4) Food & Dairy Microbiology, Clinical Bacteriology, Epidemiology, Applications of Biotechnology

MS / M.PHIL. & PH.D. STUDENTS

- 1) Environmental Biotechnology, Applied Biotechnology, Infectious Disease Epidemiology
- 2) Environmental Science and Management, Microbial Biotechnology, Clinical Lab. Technology,
- 3) Advances in Food & Fermentation Technology, Project Report & Thesis Writing
- 4) Infectious Diseases, Management and Safe Practices.

RESEARCH PUBLICATIONS

- 1- **Noor, A. A.** and Hameed, A. 1996. Three dimensional screening of fermentation yeast *S.cerevisiae* strain AAN-2. J.Sc. & Technol. 2: 1-7.
- 2- **Noor, A. A.** and Hameed, A. 1997. Yeast bioconversion of glucose from molasses to ethanol by *S.cerevisiae*. J.Biochem. & Mol.Biol. 2(1): 97-103.
- 3- **Noor, A. A.** and Hameed, A. 1998. A multistep optimization for maximum growth of *S.cerevisiae* strain ASN-3: A three-in-one approach. Scientific Sindh 5: 1-8.
- 4- **Noor, A. A.** and Hameed, A. 1999. Caliberative studies of baker's yeast on magnesium sulfate (monohydrate), sodium chloride, potassium chloride, ammonium sulfate, sodium nitrate, sodium nitrite supplemented in malt medium. Hamdard Medicus, vol. XLII(1): 59-62.
- 5- **Noor, A. A.** and Hameed, A. 1999. Effect of various concentrations of different chemicals on industrially important yeast *S.cerevisiae* strain KA-1 & AAN-2. Scientific Khyber 12(1):111-115.
- 6- **Noor, A. A.** and Hameed, A. 1999. Optimization studies for bioconversion of corn steep liquor to ethanol by *S.cerevisiae* strain KA-1 & AAN-2. Pak. J. Biol. Sc. 2(1):137-140.
- 7- **Noor, A. A.**, Hameed, A. and Ghumro, P.B. 1999. The 96 hours multistep screening of sugar fermentation yeast *S.cerevisiae* strain KA-1. J. Pure & Appl. Sc. 18(1): 22-33.
- 8- **Noor, A. A.** and Hameed, A. 2000. Viability and growth rate of gram positive, sporing and gram negative non-sporing bacteria. A compact contemplation. Hamdard Medicus, vol. XLIII, 95-101.
- 9- Mahar, M. A., Jafri, S. I. H., Leghari, S. M., Khuhawar, M. Y. and Noor, **A. A.** 2000. Studies on fresh water poisonous planktonic Cyanobacteria (*Blue Green Algae*) of Manchar lake Dadu, Sindh, Pakistan. Pak. J.Biol.Sc. 3(11): 1973-1975.
- 10- **Noor, A. A.**, Maka, G. A., Mahar, M. A., Parveen, K. and Hameed, A. 2001. Baker's yeast strain HA-4 and the growth parameters. Pak. J. Biol. Sc., vol. 4(6): 561-571.
- 11- Ghumro, P. B., **Noor, A. A.** and Hameed, A. 2001. A Multidimensional study of protease producing *Bacillus subtilis* strain M1 & M2; in Hamdard Medicus, vol. XLIX(4): 97-102.
- 12- **Noor, A. A.**, Tunio, S. A., Bhutto, M. A., Abro, G. M., Bhand, A. A., Fatima, K., Afsheen S., Javeria, K. and Afghan, R. 2002. *In vitro* investigation of *E.coli* (Wild strain): A classical approach. Hamdard Medicus, vol. XLVI (2): 107-115.
- 13- **Noor, A. A.**, Hameed, A., Parveen, K. and Tunio, S. A. 2003. Bio-ethanol fermentation by the bioconversion of sugar from dates by *Saccharomyces cerevisiae* strains ASN-3 and HA-4. Journal of Biotechnology (Int.) 2(1): 8-17.

- 14- **Noor, A. A.**, Hameed, A. and Bhutto, M. A. 2005. Enhanced growth biotechnology of yeast for alcoholic fermentation in Journal of Biotechnology (Int.), 4(1): 69-72.
- 15- Rind, S. A., **Noor, A. A.**, Zardari, M. and Mangi, A. A. 2005. Some studies of physico-chemical and biological properties of soil of Taluka Ratto Dero, District Larkana in Pak. J. Biol. Sc. 8(1): 156-159.
- 16- **Noor, A. A.**, Memon, M. J., Mahar, M.A. and Rind, S. A. 2005. A routine analysis of fresh water and water logged area of Manchar Lake. Hamdard Medicus, vol. XLVII(4): 105-108.
- 17- Rind, S. A., Zardari, M. and **Noor, A. A.** 2005. Isolation, Identification and occurrence of medically important keratinophilic fungi from soil of Taluka Dokri, District Larkana, Sindh, Pakistan. Hamdard Medicus, vol. XLVII(4): 40-44.
- 18- Mako, G. A. and **Noor, A. A.** 2006. Antibacterial activity of ethanolic extracts of *Lippia nodiflora* of Khairpur Mirs, Sindh, Pakistan. Sindh Univ. Res. Jour. 38(2): 1-4.
- 19- **Noor, A. A.** and M. U. Dahot. 2008. Optimization studies of yeast feed for enhanced growth for ethanol production by shake flask method. Sindh Univ. Res. Jour. (Science Series) Vol. 40(2): 41-50.
- 20- **Agha Asad Noor**, Abdul Ghaffar Memon and Sikander Khan Sherwani 2011. Dose response curve of plants extracts against the human pathogens. Gomal University Journal of Research, 27(2): 1-17.
- 21- **Noor, A. A.**, Hameed, A. and Dahot, M.U. 2012. Yeast Feed (II) for enhanced growth for ethanol production. Sindh University Research Journal (Science Series) 44: (1): 97-104.
- 22- Sikander Khan Sherwani, Kanwal Nazim, Tariq Mehmood Khan, Moinuddin Ahmed, Muhammad Wasif Malik, **Agha Asad Noor**, Muhammad Uzair Khan, Qadeer Muhammad Ali and Syed Iqbal Alam 2012. Phytochemical and antibacterial screening of crude extract of *Sargassum tenerrium J. Agarth* against potential human pathogens. FUUAST Journal of Biology, Vol 2(2): 65-68.
- 23- **Noor, A. A.**, Kanher, N. A. and Shah, F. A. 2013. Microbial efficacy of phosphate solubilization in agro-saline soils of various areas of Sinsh region. Mehran University Research Journal of Engineering & Technology 32(2): 167-174
- 24- Muhammad Ilyas, Muhammad Waqar, Muhammad Arif Khan, irfan Saif, Waqar Ahmed, Shah Faisal, Shaikh Faisal Junaid, Shaista Bano Memon, Tauseef Ahmed, Muhammad Wasim, Asadullah Khan, **Agha Asad Noor** and Noor ul Akber **2014**. Epidemiological study of HCV genotypes circulated in different regions of Pakistan: A Lab based study. Int. J. BioSci. 4(1): 477-483.
- 25- Noor ul Akber, Sultan Ayaz, Shafiqur Rahman, Sanaullah Khan, Shahid Niaz Khan, **Agha Asad Noor**, Bibi Ibtesam Shagufta, Farzana Raza and Muhammad Waqar **2014**. Molecular detection of *Entamoeba histolytica* in different water sources of district Peshawar, Pakistan, Annual Research & Review in Biology 4(9): 1461-1470.

- 26- Habib-ur-rehman, Muhammad Waqr, Muhammad Wasim, Asadullah Khan, **Agha Asad Noor**, tauseef Ahmed, Niyaz Ali, Tariq Shah, Faisal, Zeeshan Niaz, Shaista Bano Memon, Noor-ul-Akber, Mubarak Zeb, Effa Khan, Aisha Sheikh. **2014**. Molecular detection of the Hepatitis C virus genotypes circulating among both sexes of Khyber Pakhtunkhwa Pakistan, Asian Journal of Medical Sciences, 5(2): 1-5.
- 27- Mubarak Zeb, Ali Shariq, Muhammad Waqr, Sabir Hanif, Muhammad Ilyas Khan, Shah Faisal, Waqar Ahmed, Irfan Saif, Faisal Iqbal Afridi, Ghulam Murtaza, Badar Jehan farooqi, **Agha Asad Noor**, Rahimullah. **2014**. Emergence of carbapenems resistance in *Escherichia coli* isolated from different clinical samples at University Hospital of Pakistan. International Journal of Biosciences 4(3): 74-79.
- 28- Muhammad Waqar, habib-ur-Rehman, Asadullah Khan, **Agha Asad Noor**, Amjad Ali, Muhammad Wasim, Muhammad Idrees, Zobia Ismail, Zeeshan Niaz, Noor ul Akber and Muhammad Tariq. **2014**. Frequency distribution of Hepatitis C virus genotypes in district Karachi, Pakistan. Journal of Gastroentology and Hepatology Research 3(4): 937-40.
- 29- Saba Muneer, Shahabuddin Memon, Qadeer Khan Panhwar, Faryal khushik, Tahira Sarwar Khokhar and **Agha Asad Noor**. **2015**. Synthesis and antimicrobial activity of p-tetranitrocalix [4] arene derivative. Journal of Analytical and Environmental Chemistry 36 (4): 554-563 DOI: 10.1080/10406638.2015.1033432.
- 30- Nazir A. Brohi, **Agha Asad Noor**, Shaista Bano Memon, and Sarfraz A. Tunio. 2016. Epidemiological studies of potent environmental pathogen: *Streptococcus pneumoniae*. Pak. J. Anal. Environ. Chem. 17(2): 170-174. <http://doi.org/10.21743/pjaec.v17i2.268>.
- 31- Sayed Zaheer Abbas, **Agha Asad Noor** and Tanveer Abbas. **2016**. Antibacterial Activities of Coriander (*Coriandrum Sativum*) and Mint Spp. (*Mentha Arvensis*) Extracts Against *Staphylococcus Aureus*, *Escherichia Coli* and *Salmonella Enteritidis*". The Pharmaceutical and Chemical Journal, 3(1):178-182.
- 32- Bakht Biland, Muhammad Waqar, Muhammad Wasim, Zobia Rehman, **Agha Asad Noor**, Shahzera Mukhtar, Qazi Shah Rukh and Noor ul Akbar. **2016**. Evaluation of alpha-fetoprotein in patient with chronic hepatitis C infection by using ELFA technology. International Journal of Biosciences 9(4): 176-181.
- 33- Nazir Ahmed Brohi and **Agha Asad Noor**. **2017**. Frequency of the occurrence of *Methicillin Resistant Staphylococcus aureus* MRSA Infections in Hyderabad. Pak. J. Anal. Environ. Chem. 18 (1): 84 – 90.
- 34- Nazir Ahmed Brohi, **Agha Asad Noor** and Muhammad Ashraf Sial. **2017**. Dose response curve of various plant extracts on G+ve and G-ve bacterial isolates. Pak. J. Biotechnol. 14(2): 205-20
- 35- Barkat Ali Solangi, Hafiz Rub Nawaza, Uzma Nadeema, Beena Zehraa and **Agha Asad Noor**. **2017**. Optimisation of Production condition of alkaline protease using indigenous *Bacillus subtilis* from agricultural soil. Pak. J. Sci. Ind. Res. Ser. B: Biol. Sci. 61 B (1): 42-46.

- 36- Zaheer Ahmed and **Agha Asad Noor**. Antibacterial activity of *Momordica charantia* L. and *Citrus limon* L. on gram positive and gram negative bacteria **Accepted for publication** in Pure Appl. Biol., 9(1): 207-218, March, 2020. <http://dx.doi.org/10.19045/bspab.2020.90025>,_University of Balochistan, Quetta.
- 37- Wajahat Hussain Shah, Abdul Rasool Abbassi, **Agha Asad Noor** and Naeem Tariq Narejo. (2019). Frequency of bacterial and viral infections in the environment of different areas of Karachi. Pakistan Journal of Analytical and Environmental Chemistry 20 (2), 127-134.
- 38- Sagheer Hussain Shah and **Agha Asad Noor (2019)**.. Serodiagnostic investigation of syphilis in Taluka Gambat. RADS Journal of Biological Research and Applied Sciences 10 (2): 1-6.
- 39- Shafique A. Rind, Fateh Muhammad Soomro, **Agha Asad Noor** and Atta Hussain Rind. (2020). Yeast biomass production for high yield of bioethanol using molasses and fermentation medium as substrates in International Journal of Biosciences (IJB) 16 (1): 2020.
- 40- Sanam Dehraj, and **Agha Asad Noor (2020)**. Population-Based Study of Environmental Food Pathogens and their Antibiotic Resistance Pattern. Proceedings of the Pakistan Academy of Sciences. Life and Environmental Sciences 57 (2): 49-58.
- 41- N. Brohi, **A. A. Noor**, A. Kandhro, S. Naz A. Pahnwer, H. Bakri, S. Dehraj, R. MemonS. K. Khanzada. (2021). Prevalence of bacterial infection and fungal skin infections and their mode of treatment in Hyderabad. Pakistan Journal of Science 73(1): **Accepted for publication in June 2021**