ZAKARIA AHMED, Ph.D.

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Publon:- P-4920-2015 **Web of Science:-** AAQ-9971-2021 **ORCID-** 0000-0001-9274-6018

SciProfiles homepage: https://sciprofiles.com/profile/zakaria

Researchgate: https://www.researchgate.net/profile/Zakaria-Ahmed-4

Google Scholar: https://scholar.google.com/citations?user=9K1UlJcAAAAJ&hl=en

Kudos: https://www.growkudos.com/projects/zakaria-ahmed-researcher-in-microbiological-field

Linkedin: https://www.linkedin.com/in/zakaria-ahmed-0668b531/?originalSubdomain=bd

Loop in: https://loop.frontiersin.org/people/2028585/overview

PERSONAL DATA

Date of Birth: December 14, 1970.

Marital Status: Married.
Religion: Islam (Sunni).

Mailing Address: 22/5 Red Quarter (Dhakeshory Area), BUET, Lalbagh, Dhaka.

HIGHLIGHTS OF QUALIFICATIONS

- Project Co-IP entitled "Application of Enzyme Technology for improvement of jute fibre and jute based products" funded by Government of the Peoples Republic of Bangladesh under the Agriculture Ministry;
- Post Graduate degree in microbiology;
- Post Doc in Genetic Engineering and Food Biotechnology;
- Extensive teaching and research experiences in home and abroad;
- Supervised undergraduate and post graduate students (University Level) in their mini projects in home and abroad;
- Attended local and international scientific seminars and conferences;
- Member of different Microbiological Societies in home and abroad;
- Editorial Board Members of various internationally reputed research journals;
- Outstanding experience in basic and applied microbiological methodology and research, microbial enzyme and genetics,
- Microbial cultures preparation and routine microbiological laboratory techniques;
- Participated in interdisciplinary research and development projects in home;
- Demonstrated ability in writing excellent in research papers;
- Knowledge of MS Office, Chem Draw and the Internet;
- Flexible, responsible and hard working team player;

EDUCATIONAL QUALIFICATION

v	NAME OF DEGREE	UNIVERSITY / COLLEGE	DATE OF	DATE OF	MARKS /
LEVEL		/ SCHOOL / INSTITUTION	JOINING	LEAVING	GRADES
	Ph.D.	Ehime University, Japan.			
Doctoral Degree	(Applied Microbiology &		1997	2000	Passed
	Biotechnology)				
Master's Degree	M.Sc.	Dhaka University,	1993		
Waster's Degree	(Microbiology)	Bangladesh.		1995	First Class
Bachelor's Degree	B.Sc.	Dhaka University,			
Dachelor's Degree	(Microbiology)	Bangladesh.	1989	1993	First Class
Tr. 1 C 1 17 .	Higher Sceondary Certificate	Dhaka College, Dhaka Board,			First Division
Higher School Leaving	(Science Group)	Bangladesh.	1986	1988	(Two Letters)
	Secondary School Certificate	Udayan Biddalaya, Dhaka			First Division
Lower School Leaving	(Science Group)	Board, Bangladesh.	1976	1986	(Five Letters)
Ph.D. Thesis Title	Production Of Various Rare Aldopentoses From D-Glucose By Microbial And Enzymatic Methods.				
M.Sc. Thesis Title	Microbiological Aspects Of Radiation Sterilization Of Medical And Pharmaceutical Raw Materials.				
Post Doctoral Research Title	Preparation Of Chimeric Enzymes By Dna Shuffling.				

CAREER HISTORY

Position Held	Employer's Name	Employer's Address	Date From	Date To
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				1
Principal Scientific	Bangladesh Jute Research	Bangladesh Jute Research Institute, Technology Wing, Manik	January 17,	Till to
Officer	Institute, Bangladesh	Mia Avenue, Dhaka-1207; Ministry Of Agriculture, Bangladesh	2022.	date
Senior Scientific	Bangladesh Jute Research	Bangladesh Jute Research Institute, Technology Wing, Manik	September 07,	January
Officer	Institute, Bangladesh	Mia Avenue, Dhaka-1207; Ministry Of Agriculture, Bangladesh	2016	16, 2022.
Associate Professor	Primeasia University,	Microbiology Department, Hbr Tower, 9 Banani, Dhaka-1213.	2012	2016
	Bangladesh	Bangladesh.		
Lecturer (Contract)	Universiti Teknologi	Medical Faculty, Shah Alam Campus, 40450 Shah Alam,		
	Mara, Malaysia	Selangor, Malaysia.	2010	2011
	(UTIM)			
Assistant Professor	Primeasia University,	Microbiology Department, Hbr Tower, 9 Banani, Dhaka-1213.		
	Bangladesh	Bangladesh.	2007	2012
Post Doctoral	National Food Research	Biological Function Division, National Food Research Institute,		
Researcher (Jsps	Institute, Japan	2-1-12 Kannondai, Tsukuba, Ibaraki 305-8642, Japan.	2003	2005
Fellow)				
Scientific Officer	Bangladesh Jute Research	Bangladesh Jute Research Institute, Agricultural Wing, Manik		
(Microbiology &	Institute, Bangladesh	Mia Avenue, Dhaka-1207; Ministry Of Agriculture, Bangladesh.	1996	2003
Biochemistry				
Devision)				
Teaching And	Kagawa University, Japan	Faculty Of Agriculture, Miki-Cho, Kagawa Ken, Japan.		
Research Assistant			1998	2000
(Part Time)				
Research Fellow (Part	BCSIR, Dhaka,	NST Fellowship Program, Ministry Of Science And Technology,		
Time)	Bangladesh	Bangladesh.	1995	1995

TEACHING EXPERIENCE

List the courses taught / teach at graduate / post-graduate levels

GRADUATE LEVEL (B.Sc.) – MICROBIOLOGY (PAU, BANGLADESH)
POST GRADUATE LEVEL (M.Sc.)- MICROBIOLOGY (PAU, BANGLADESH)

POST GRADUATE LEVEL (MBBS) - MEDICAL MICROBIOLOGY (UiTM, MALAYSIA)

RESEARCH EXPERIENCES

Senior Scientific Officer (September 2016 to present), Participated in interdisciplinary research and development projects; Worked with scientists; prepared scientific reports and manuscripts and published papers in reputed scientific journals. Gained experience: Enzyme Production; Softening For Barky Root End; Softening Of Fibre For Better Spinning; Biochemical Analysis Office Plants; Value Added Product

Post Doctoral Researcher (June 2003- June 2005), extensive research was carried out under the project title "Preparation of Chimeric enzymes by DNA Shuffling" on identification and activity of enzyme isolated from Xanthomonas sp.; gained experience on: Isolation And Purification Of Dna; Amplification Of Gene By Polymerase Chain Reaction (Pcr); Obtaining Several Enzymes To Produce Special Carbohydrates, Such As Phosphorolytic Enzymes; Amplified A Gene Of A Member Of Glycoside Hydrolases Family 94; Optimization Of The Annealing Temperature For Dna Amplification In Vitro; Gel Electrophoresis; Topo Cloning Reaction And Sequencing Of The Desired Dna; Etc.

Doctoral Student (October 1997- September 2000), Gained experience in many microbiological and enzymatic techniques including: Isolation And Identification Of Microbes; Isolation, Purification, Immobilization And Characterization Of The Enzyme; Optimization Of Transformation Reactions; Separation Of The Product Using Various Column Chromatography; Identification Of The Product By Analyses The High Performance Liquid Chromatography (Hplc), Infra-Red (Ir) Spectra, Nuclear Magnetic Resonance (Nmr) Spectra Melting Point And Optical Rotation Measurements.

Masters Student (June 1993-July 1995), gained experience in the field of Radiation Biology and various aspects of radiation sterilization techniques such as: Radiation Dose Determination, D10 Value; Hplc Analysis; Uv Spectrophotometric Analysis; Potency Determination Of Various Pharmaceutical Products, Etc.

Research Fellow (July 1995- October 1995), under the title "Microbial production of Enzymes (cellulase or hemicellulase by fermentation process utilizing the agriculture wastes", gained experience in the field of: Fermentation Process, Cultivation And Identification Of Microbial Samples Having Cellulase And Hemicellulase Activity; Hplc Analysis; Isolation And Purification Of Enzyme, Etc.

Scientific Officer (June 1996 to February 2003), Participated in interdisciplinary research and development projects; Worked with soil scientists and biochemists; prepared scientific reports and manuscripts and published papers in reputed scientific journals. Gained experience: Development Of Mixed Microbial Inoculum For The Acceleration Of Retting Speed And Production Of Good Quality Jute And Allied Fibre; Non-Aqueous Retting Of Dry Ribbons Of Jute With Promising Fungus; Comparative Studies Of Retting And Fibre Properties Of Different Pipeline And Pre-Released Varieties Of Jute (C. Capsularies And C. Olitorius); Studies Of The Enzyme Activities Of Promising Retting (Bacteria And Fungus) With Special Reference To Cellulase And Pectinase And Their

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Impact On Dry Ribbon Retting; Effect Of Retting On Environment And Its Control; Isolation Of Microbes From Different Natural Sources And Studies Of Their Retting Properties; Studies Of The Factor Affecting Jute Retting And Fibre Quality; Effect Of Using Different Weighing / Covering Materials In The Ret During Jute Retting On The Fibre Quality; Extraction Of Enzymes From The Isolated Promising Microbes Capable Of Jute Retting And Determining Their Enzymatic Activities; Selection Of Appropriate Media For Some Promising Microbes So Far Isolated In Order To Improve Growth And Retting Properties.

AREAS OF RESEARCH

- 1. Environmental and natural product microbiology with particular reference to:
 - Search for bio-pesticides for the control of crop and animal pests as a strategy of improving food security
 - Search for antimicrobial agents from medicinal plants
 - Synthesis of bioactive Natural Products
- 2. Bacterial enzyme and its application
- 3. Medical microbiology
- 4. Jute and its related research

RESEARCH GUIDANCE

MS THESIS

Sl.	Description of research conducted	Name of the student	Graduation
No			date
1	Isolation and identification of microbes from GONOSATHO	Md. Shahidul Islam, Primeasia University, Dhaka,	2011
	PHARMACEUTICAL waste materials and determination of their antibiotic	Bangladesh	
	resistance pattern		
2	Bacteriological study of post-operative abdominal wound infection	Fatematuz-johora Tamanna, Primeasia University,	2011
		Dhaka, Bangladesh	
3	Prevalence rate of tuberculosis in Bangladesh among different age group by	Ohiuddin Ahmed, Primeasia University, Dhaka,	2012
	conventional and flurosence microscopy	Bangladesh	
4	Microbiological status of sweets and sweet-products in Dhaka City, Bangladesh"	Mesbeh Uddin, Primeasia University, Dhaka, Bangladesh	2012
5	Study on Methicillin Resistance Staphylococcus aureus (MRSA) in Pus and	Ummey Nahor, Primeasia University, Dhaka,	2013
	Wound Swab In BIRDEM General Hospital	Bangladesh	2013
6	Detection and identification of tubercle bacilli by different methods from sputum	Md. Alamgir Hossain, Primeasia University, Dhaka,	2013
	and blood samples of hospitalized patients in Bangladesh	Bangladesh	
7	Isolation, Identification And Antimicrobial Sensitivity Pattern Of Bacterial	Lamiya Haque, Primeasia University, Dhaka,	2013
	Isolates From Tracheal Aspirate Of Icu Patientsof Central Dhaka, Bangladesh	Bangladesh	
8	Study of the Incidence of pathogens and their drug susceptibility pattern among	Md. Kamal Hossain, Primeasia University, Dhaka,	2013
	UTI patients in Bangladesh	Bangladesh	
9	Detection and Identification of Tubercle Bacilli as well as with MDR by Gene X-	Manas Kumar Nath, Primeasia University, Dhaka,	2013
	pert methods from Sputum samples	Bangladesh	
10	Comparative Analysis Of Mycobacterium Tuberculosis Detection By Different	Jafurullah, Primeasia University, Dhaka, Bangladesh	2013
	Methods		
11	Microbiological analysis and Antimicrobial Sensitivity pattern of Pus and Wound	Lovely Akter, Primeasia University, Dhaka,	2014
	Samples	Bangladesh	
12	Microbiological Study Of Different Vegetables	Jahanara Akhter, Primeasia University, Dhaka,	2014
		Bangladesh	
13	Isolation , Identification And Antimicrobial Sensitivity Pattern Of Bacterial	Sk. Tahir Ahmed, Primeasia University, Dhaka,	2015
	Isolates From Tracheal Aspirate Of Icu Patients Of Central Dhaka, Bangladesh	Bangladesh	
14	Distribution pattern of pathogenic E.Coli in different medical samples and then	Asik Mostofa, Primeasia University, Dhaka,	2015
	antibiotic sensitivity pattern	Bangladesh	2015
15	Study Of Antimicrobial Properties Of Some Organic Tea	Mohammed Rejaul Karim, Primeasia University,	2015
16	Eff. 4 Of DI- 1. A. 4 T-1-i T O. Diff. A. 4 Minner and A.	Dhaka, Bangladesh	2015
16	Effect Of Black And Tulsi Tea On Different Microorganisms	Md. Abdullah Al Joad, Primeasia University, Dhaka, Bangladesh	2015
17	Microbilogical Status Of Street Foods In Dhaka City, Bangladesh	Mithun Chandra Biswas, Primeasia University, Dhaka,	2015
17	Microbilogical Status Of Street Foods in Dilaka City, Bangladesh	Bangladesh	2013
18	Pattern Of Different Bacterial Wound Infection And Their Antimicrobial	Md. Joynal Abedin Khan, Primeasia University,	2015
10	Resistance	Dhaka, Bangladesh	2013
19	Study of etiological agents of urinary tract infections and their antibiotics	Nusrat Jahan, Primeasia University, Dhaka,	2015
17	sensitivity patterns in Bangladesh	Bangladesh	2013
20	Prevalence of Microorganisms on the quality of some pharmaceutical raw	Md. Golam moktadir Khan, Primeasia University,	2015
-0	materials	Dhaka, Bangladesh	2010
21	Urinary Tract Infection in Tertiary care Hospital of Dhaka city	Shepherd Sawon Sarker, Primeasia University, Dhaka,	2015
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		Bangladesh	
22	Microbiological analysis of cosmetics and ayurvedic products OF EMAMI and its	Md. Anowar Hossen, Primeasia University, Dhaka,	2015
	antimicrobial assay	Bangladesh	
23	Study of resistant pattern and comparative analysis of different generation of	Ishrat Jahan Khan, Primeasia University, Dhaka,	2015
	antibiotics against various pathogens	Bangladesh	

B.Sc. Level

Sl.	Description of research conducted	Name of the student	Graduation
No			date
1	Antimicrobial Textiles: How Effective In Our Daily Usage	Final year group of students of Textile Engineering, Primeasia University, Dhaka, Bangladesh	2007
2	Microbiological And Chemical Analysis Of Waste Water From Different Knit Dyeing Industries Around Dhaka City	Final year group of students of Textile Engineering, Primeasia University, Dhaka, Bangladesh	2008
3	A Comparative Analysis Of The Drug Resistance In Staphylococcus Aureus Isolated From Various Sources In Dhaka, Bangladesh	Tashfina Mirza, Primeasia University, Dhaka, Bangladesh	2008
4	Microbiological Quality Assessment Of Vegetable Containing Fast Foods, Salad And Sauce	Asma Biswas, Primeasia University, Dhaka, Bangladesh	2008
5	Enzymatic Treatment On Jute-Cotton Blend (25/7) Fabric	Final year group of students of Textile Engineering, Primeasia University, Dhaka, Bangladesh	2009
6	Study Of Antimicrobial Properties Of Some Natural Products	Ummey Nahor, Primeasia University, Dhaka, Bangladesh	2011
7	Microbiological Study And The Prevalence Of Microbial Association In Different Soil Environment	Lamiya Haque, Primeasia University, Dhaka, Bangladesh	2012
8	Prevalence, Antibiotic Sensitivity Pattern And Serological Identification Of Salmonella Typhi And S. Paratyphi Of Different Samples Isolated From Hospitalized Infected Patients	Lovely Akter, Primeasia University, Dhaka, Bangladesh	2012
9	Microbiological Status Of Chicken Meat Collected From Different Retailshop In Bangladesh	Tahir Ahmed, Primeasia University, Dhaka, Bangladesh	2012
10	The Recent Study On Secondary Infection Of Pulmonary Tuberculosis Patients In Bangladesh	Joynal Abedin, Primeasia University, Dhaka, Bangladesh	2013
12	Effect Of Temperature, Ph And Media On Microbial Growth And Comparative Analysis Of Growth Pattern Of Different Bacteria	Md. Abdullah Al-Joad, Primeasia University, Dhaka, Bangladesh	2013
13	Study Of Antimicrobial Activity Of Ayurvedic And Unani Medicine And Their Comparative Analysis With Commercial Antibiotic	Sajib Chakrabortty, Primeasia University, Dhaka, Bangladesh	2013
14	Isolation And Characterization of E.Coli 0157:H7 From Rectal Swab Of Apparently Healthy Cattle	Tazrin Kamal, Primeasia University, Dhaka, Bangladesh	2013
15	Study Of Multidrug Resistant Pattern Of Isolated Bacteria From Different Source Of Waste Water	Md. Nahidul Islam, Primeasia University, Dhaka, Bangladesh	2013
19	Isolation And Identification Of Bacteria From Burned Wound Sample And Multi Drug Resistant Against Isolated Bacteria	Md. Aowrongo Zeb, Primeasia University, Dhaka, Bangladesh	2014

RESEARCH PROPOSAL CONDUCTED (2017-2019)

Worked as a Co- Principal Investigator (Co-PI) in a research proposal entitled "Application of Enzyme Technology for improvement of jute fibre and jute based products" funded by Government of the Peoples Republic of Bangladesh under the Agriculture Ministry; Research Area was Post Harvest Technology (Biotechnology Area) and the duration of the project was 2 years (From July 2017 to June 2019).

OFFICIAL ADMINISTRATIVE DUTIES

- 1. Act as a member-secretary, a five members committee for the progress of Sustainable Development Goal (SDG Target 23); Ref. No.: 12.23.0000.015.14.283.30682 (5), dated-10/09/2020.
- 2. Act as a convener, a two members committee for certification of the purchased chemicals of Microbiology Department; Ref. No.: 12.23.2680.006.07.073.18/4702 (1), dated- 17/06/2019.
- **3.** Act as **a member**, a three members committee for certification of the procured equipments for project "Application of enzyme technology for improvement of jute fibre and jute based product (ID-0321014)"; Ref. No.: 12.23.2680.006.07.075.18/4944 (2), dated- 27/06/2019.
- 4. Act as a member, a three members committee for certification of estimated cost price of purchasing equipments with specification for project "Application of enzyme technology for improvement of jute fibre and jute based product (ID-0321014); Ref. No.: 12.23.2680.006.07.075.18/3493(2), dated-31/03/2019.
- **5.** Act as **a convener**, a two members committee for certification of estimated cost for purchasing laboratory equipment for the project "Application of enzyme technology for improvement of jute fibre and jute based product (ID-0321014)"; Ref. No.: 12.23.2680.006.085/19/3023 (1), dated- 24/02/2019.
- 6. Act as a member, a three members committee for submission of the administrative confidential report against Mr. Md. Mahbubul Haque, scientific officer (Incharge), industrial chemistry department; Ref. No.: 12.23.2680.004.31.051.12.1924 (2), dated-02/12/2018.

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- 7. Act as a member, a two members committee for certification of estimated cost price of purchasing equipments with specification for project "Application of enzyme technology for improvement of jute fibre and jute based product (ID-0321014); Ref. No.: 12.23.2680.006.07.075.1878 (2), dated- 27/11/2018.
- 8. Act as a member, a three members committee for assessing the suitable allotter officer member and rent for newly built flat in BJRI Monipuripara residential area; Ref. No.: 12.23.0000.004.05.027.19.3037 (2), dated- 27/02/2022.

TRAINING

2016

1. *Teaching-Learning, Curriculum and Quality Assurance*, Two (2) days organized by Institutional Quality Assurance Cell (IQAC), Primeasia University, Banani, Dhaka, Bangladesh (27-28 August.2016).

2017

- 1. Training of trainers (TOT) for the dissemination of industrial technologies on jute; Three (03) days training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (March 05 to March 07, 2017)
- 2. Procurements of goods, works and services; Three (03) days training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (June 19 to June 21, 2017)

2018

- 3. *Project Development and Management*; Five (05) days training workshop organized by Bangladesh Agriculture Research Council (BARC), Firm Gate, Dhaka (January 14 to January 18, 2018).
- 4. Technical Report Writing and Editing; Three (03) days training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (June 02 to June 04, 2018)
- 5. Agricultural Project Management; Three (03) days training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (June 06 to June 08, 2018)
- 6. Data Analysis by Micro-computer; Three (03) days training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (June 10 to June 12, 2018)
- 7. Research Methodology; Three (03) days training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (June 26 to June 28, 2018).
- 8. Quality Control on Jute Goods; Two (02) days training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (May 26 to May 27, 2019).
- 9. Jute Industrial Product Research and Development; One (01) day training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (August 4, 2019).
- 10. Jute Textile Product Research and Development; One (01) day training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (August 5, 2019).

2020

- 11. Right to Information Act; One (01) day training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (September 29,, 2020).
- 12. Public Procurement Procedures (Goods, Works & Services), Two (02) days training organized by Bangladesh Jute research Institute, Head Office, Dhaka,

 Bangladesh (November 7-8, 2020).

2021

- 13. Annual performance agreement (APA), One (01) day training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (January 21, 2021).
- 14. Gemone Research: A hope in agriculture, One (01) day seminar; organized by Basic & Applied Research on Jute (BARJ), Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (February 10, 2021).
- 15. E-filing, One (01) day training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (September 13, 2021).
- 16. Complain taken and solve, One (01) day training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (November 09, 2021).
- 17. Challenge on Forth Industrial Revolution, One (01) day training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (June 09, 2022).
- 18. E-Governess and Innovative work plan, One (01) day training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (June 14, 2022).
- 19. **Office Management and Skill Development,** One (01) day training organized by Bangladesh Jute research Institute, Head Office, Dhaka, Bangladesh (June 27, 2022).

NATIONAL DUTY (ELECTION DUTY)

- 1. **Presiding Officer**, Vote centre of 309 Mirpur Laboratory High School, Golartech Branch, 105/1/B Golartech, Darus Salam, Mirpur, Dhaka (Gents); Local Government (City Corporation) Election 2020 (30/01/2020, 8:00 am- 4:00 pm.
- 2. Presiding Officer, Vote centre of 623 Government Kalachand High School and College, Gulshan, Dhaka (1st floor), New Building (Ladies); Local Government (City Corporation) Election 2019 (28/02/2019, 8:00 am- 4:00 pm.

COMMITTEE

Technical Committee Member, International Conference on Medical Engineering, Health Informatics and Technology (MediTec 2016) organized first time
by School of Science and Engineering of United International University, held in Dhaka, Bangladesh on 17-18 December 2016. Theme of the Conference"Smart Systems for Healthcare". Website: http://meditec.uiu.ac.bd/program-schedule/

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- 2. Convener, Bill Certified Committee (2 member committee), Tk. 2,98,227/= Chemicals supplied by Kuri & Company (Pvt.) Ltd. 78, Motijheel Commercial Area, Dhaka 1000 to Microbiology and Biochemistry department, Bangladesh Jute Research Institute (Issue No. 12.23.2680.006.07.073.18/2650(1-9), dated 27-01-2019.
- 3. Member, Bill Certified Committee (3 member committee), Tk. 49,24,000.015/= Equipments supplied by Overseas Marketing Corporation (Pvt.) Ltd. Unique Trade Center, 15th Level, 8 Panthapath, Dhaka 1215 to the Project entitled Application of Enzyme Technology for improvement of jute fibre and jute based products" of Microbiology and Biochemistry department, Bangladesh Jute Research Institute (Issue No.12.23.2680.006.07.075.18/4944(2), dated 27-6-2019.
- 4. Member, Estimated Cost Evaluation Committee (3 member committee), Equipments specification and departmental estimated cost re-evaluation for fiscal year 2018-19 for Research proposal of the Project entitled Application of Enzyme Technology for improvement of jute fibre and jute based products" of Microbiology and Biochemistry department, Bangladesh Jute Research Institute (Issue No.12.23.2680.006.07.075.18/3493(2), dated 31-03-2019.
- 5. Convener, Estimated Cost Evaluation Committee (2 member committee), Equipments specification and departmental estimated cost evaluation for the Project entitled Application of Enzyme Technology for improvement of jute fibre and jute based products" of Microbiology and Biochemistry department, Bangladesh Jute Research Institute (Issue No.12.23.2680.006.07.085.19/3023(1), dated 24-02-2019.
- 6. Member, Estimated Cost Evaluation Committee (2 member committee), Equipments specification and departmental estimated cost evaluation for fiscal year 2018-19 for Research proposal of the Project entitled Application of Enzyme Technology for improvement of jute fibre and jute based products" of Microbiology and Biochemistry department, Bangladesh Jute Research Institute (Issue No.12.23.2680.006.07.075.18/1878(2), dated 27-11-2018.
- 7. Member, Disciplinary action investigating committee for Mr. Mahbubul Haque, SO (in-charge), industrial chemistry department, Bangladesh Jute Research Institute (Issue No.12.23.2680.004.31.051.12.1924(2), dated 02-12-2018; 12.23.2680.004.31.051.12.2217(4), dated 24-12-2018).
- 8. Member, SDG Committee (5 member committee), DPP Project, Bangladesh Jute Research Institute (Issue No.12.23.0000.015.14.283.20.682(5), dated 10-09-2020...

OTHER PROFESSIONAL DUTY

- 1. Conducted Assistant Proctor (invigilators) duty for Japanese-Language Proficiency Test (JLPT) exam on July3, 2022, Bangabandhu Sheikh Mujib Academy, Taltola, Dhaka, Bangladesh.
- 2. Worked as volunteer in Toronto Western Hospital, University Health Network, Department of Volunteer Resources, McLaughlin Pavilion 2-4'74, 399 Bathurst Street, Toronto, Ontario MST 2S8, Canada.

AWARDS / DISTINCTION

- i) Junior High School Governmental Scholarship for academic feat in class eight (Awarded for the period of 1983 to 1986).
- ii) Departmental Scholarship for the academic feat in undergraduate level (Awarded for the period 1989 to 1993).
- iii) Governmental General Scholarship in graduate level for scholastic result in undergraduate level, Government of the Peoples Republic of Bangladesh (Awarded for the period 1993 to 1995).
- iv) Japanese Governmental Scholarship (MONBUSHO) in doctoral course, Government of Japan (Awarded for the period 1997 to 2000).
- v) Japanese Society for the Promotion of Science (JSPS) Fellowship in Post-doctoral level, Government of Japan (Awarded for the period 2003 to 2005).
- vi) Mowlana Abdul Hamid Khan Bhashani Award 2017; Sponsered by Bangladesh Unnoyon Shongsod, 14 Purana Polton, Darus Salam Arched, (8th Floor), Dhaka 1000. Email: kaziakhai 82@gmail.com (September 19, 2017).

RECOGNITION

- 1. IBC Insignlia of Recognition (Ref: INS/INV; 4th January 2002); International Biographical Centre (IBC) Cambridge CB2 SQP England; Telephone: +44 (0) 1553 646600 Facsimile: +4-1 (0) 1555 646601.
- 2. International Scientist Of The Year 2002 (Ref: TSCA/INV; 12"April 2002), International Biographical Centre (IBC) Cambridge CB2 SQP England; Telephone: +44 (0) 1553 646600 Facsimile: +4-1 (0) 1555 646601.
- 3. Man of Achievement Award 2002. (Ref: M/ACH; 1"February 2002), International Biographical Centre (IBC) Cambridge CB2 SQP England; Telephone: +44 (0) 1553 646600 Facsimile: +4-1 (0) 1555 646601.
- **4. IBC's 21" Century Award for Achievement** (Ref:21st/ INV; 7th September 2001). International Biographical Centre (IBC) Cambridge CB2 SQP England; Telephone: +44 (0) 1553 646600 Facsimile: +4-1 (0) 1555 646601.
- 5. Selected for biography inclusion in the new 18th Edition of 'Who*s Who in the World, 121 Chanlon Road 'New Providence, NJ 0797-1 USA. '1-800-521-8110 ext. 7003 Outside the U.S.: 1—908-464-6800 'Email: World@renp.eom
- 6. Selected for biographical profile for inclusion in the 6th Edition of Who's Who in Science and Engineering, the first edition of the 21st century.
- 121 Chanlon Road 'New Providence, NJ 0797-I USA. 1-800-521-8110 ext. 7003 Outside the U.S.: 1-908-464-6800 'Email: World@renp.eom
- 7. Selected for biographical profile for inclusion in 20th Edition of Who's Who in the World, published in December 2002. 21st century.
- 121 Chanlon Road 'New Providence, NJ 0797-I USA. 1-800-521-8110 ext. 7003 Outside the U.S.: 1-908-464-6800 'Email: World@renp.eom
- 8. Selected for biographical profile for inclusion in the 19th Edition of Who's Who in the World, 121 Chanlon Road 'New Providence, NJ 0797-1 USA. '1-800-521-8110 ext. 7003 Outside the U.S.: 1—908-464-6800 'Email: World@renp.eom
- 9. Selected for biographical profile for inclusion in the 21st Edition of Who's Who in the World, 121 Chanlon Road 'New Providence, NJ 0797-1 USA. '1-800-521-8110 ext. 7003 Outside the U.S.: 1—908-464-6800 'Email: World@renp.eom
- 10. Selected for biographical profile for inclusion in the 4th Edition of Wh0's Who in Medicine and Healthcare, 121 Chanlon Road 'New Providence, NJ 0797-1 USA. 1-800-521-8110 ext. 7003 Outside the U.S.: 1—908-464-6800 'Email: World@renp.eom

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

1. Member, American Society for Microbiology, USA.

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- 2. Member, International Society for Rare Sugar (ISRS), Japan
- 3. Member, Canadian Society of Microbiologist (CSM), Canada.
- 4. Member, Canadian College of Microbiologist (CCM). Canada.
- 5. Member, Bangladesh Society of Microbiology, Bangladesh.
- 6. Member, Asiatic Society of Bangladesh ((ASB), Bangladesh.
- 7. Associate Member, Bangladesh Botanical Society (BBS), Bangladesh.
- 8. Graduate Member, Bangladesh Computer Society (BCS), Bangladesh.
- 9. Registered Graduate, Dhaka University (DU), Bangladesh.
- 10. Life Member, Dhaka University Alumni Association (DUAA), Bangladesh.
- 11. Member, Bangladesh Association for Plant Tissue Culture and Biotechnology (BAPTC&B), Bangladesh.
- 12. Member, Bangladesh Association of Scientists and Scientific Professions (BASSP), Bangladesh.
- 13. Member, Bangladesh Association for the Advancement of Science (BAAS), Bangladesh.
- 14. Life Member, Bangladesh JSPS Alumni Association (BJSPSAA), Bangladesh.
- 15. Life Member, Japanese University Alumni Association (JUAAB), Bangladesh.
- 16. Life Member, Bangladesh Society of Microbiology (BSM), Bangladesh.

MEMBERS AS EDITORIAL BOARD MEMBER / REVIEWER IN INTERNATIONALSCIENTIFIC JOURNALS

Editorial Board Member

- American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS), Global Society of Scientific Research and Researchers (GSSRR), Amman - Jordan
- International Journal of Science: Basic and Applied Research (IJSBAR)
- · American Academic Scientific Research Journal for Engineering, Technology, and Sciences
- International Journal of Food Science and Biotechnology (IJFSB), SciencePG group, USA.
- Research Journal of Agriculture and Biological Sciences, Pakistan.
- · Journal of Biomedical Engineering and Technology
- American Journal of Advances in Medical Science (ARNACA)
- Infectious Diseases Research, TMR publishing group, New Zealand.
- Environmental Science Archives
- European Modern Studies Journal
- Journal of Microbes and Research, Medires Publishing LLC, USA.

Reviewer

- International Journal of Science: Basic and Applied Research (IJSBAR).
- American Academic Scientific Research Journal for Engineering, Technology, and Sciences
- American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS),
- Global Society of Scientific Research and Researchers (GSSRR),
- Journal of Agricultural Science and Technology B, David Publishing Company, USA.
- International Journal of Research and Scientific Innovation.
- Journal of Complementary and Alternative Medical Research.
- Medical Science Monitor.
- Science and Education Publishing, USA.
- · Asian Journal of Research and Report in Gastroenterology.
- European Journal of Medicinal Plant.
- International Greener Journals.
- Journal of Applied Life Sciences International.
- The MedCrave online Journal (https://medcraveonline.com/MOJBM/reviewer-board).
- International Academy of Science, Engineering and Technology
- Journal of Pharmaceutical Research.
- Academia Letter.
- International Journal of Research and Scientific Innovation (IJRSI) (https://www.rsisinternational.org/journals/ijrsi/reviewer/zakaria-ahmed/).
- · International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS)
- Asian Journal of Advances in Medical Science, MB International Media and Publishing House.
- International Journal of Pharmaceutica Analytica Acta.
- Asian Journal of Biochemistry, Genetics and Molecular Biology.
- International Research Journal of Gastroenterology and Hepatology
- Asian Journal of Research and Review in Agriculture.
- Journal of Pharmaceutical Research International.
- International Journal of Research and Analytical Reviews (IJRAR)
- Journal of Emerging Technologies and Innovative Research (JETIR)

Science Ambassador

Bentham Science Ambassador (2020-2021).

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LANGUAGES

Bengali: Fluent in speaking, writing and reading. Native Speaker.

English: Fluent in speaking, writing and reading.

Japanese: Fair in speaking only.

RESEARCH PAPER REVIEWED

- 1. Act as a **REVIEWER** for reviewing the manuscript 0513014231 Gyar et al with the title "BACTERIOLOGICAL QUALITY ASSESSMENT OF NIGERIAN NON ALCOHOLIC BEVERAGE (KUNUN-ZAKI) SOLD IN KEFFI METROPOLIS, NIGERIA" in International **Greener Journals**; May 19, 2014
- 2. Act as a **REVIEWER** for reviewing of "THE DIVERSITY AND UTILIZATION OF WILD MEDICINAL PLANT SPECIES FOUND IN THE MIOMBO WOODLANDS OF UVINZA, TANZANIA", **Academia letter**; Oct 28, 2021
- **3.** Act as a **REVIEWER** for reviewing of "THE PROLIFERATION OF ANTIMICROBIAL RESISTANCE DUE TO COVID-19 STERILIZATION PRACTICES" by Jeremy Steenin **Academia Letters**; Nov 4, 2021.
- 4. Act as a **REVIEWER** for reviewing "MICROSATELLITE MARKER BASED ASSESSMENT OF GENETIC INTEGRITY OF COMMERCIAL RICE SEED LOTS IN RELATIONS TO THE EARLY GENERATION SEEDS IN NIGERIAN SEEDS INDUSTRY" for **International Journal of Research and Scientific Innovation**; Oct 3, 2021.
- 5. Act as a REVIEWER for reviewing "STUDY ON ACALCULOUS CHOLECYSTITIS IN CRITICALLY ILL PATIENTS" in Journal of Pharmaceutical Research International, 23-Oct-2021.
- 6. Act as a **REVIEWER** for reviewing -"VIRULENCE ANALYSIS OF BACTERIA ISOLATED FROM WASTEWATER IRRIGATED LANDS" by CH Goraya in **Academia Letters**; Nov 25, 2021.
- 7. Act as a **REVIEWER** for reviewing -"MEASURING THE EFFECTS OF COVID-19 ON WOMEN'S DAILY LIVES AND WELL-BEING: A NATIONAL SURVEY'S PRELIMINARY RESULTS" by Terrell L. Strayhorn; in **Academia Letters**; Nov 25, 2021.
- **8.** Act as a **REVIEWER** for reviewing "AN ASSESSMENT ON THE PHYSIOCHEMICAL AND MICROBIOLOGICAL PARAMETERS IN SELECTED SACHET WATER SOLD FOR CONSUMPTION IN OLD ROAD GAYE TOWN COMMUNITY MONTSERRADO, COUNTY JANUARY 2019 APRIL 2019" in **International Journal of Research and Scientific Innovation**; Dec 9, 2021.
- 9. Act as a **REVIEWER** for reviewing-"EXTRACTION OF CHITIN FROM AMERICAN COCKROACH (*PERIPLANETA AMERICANA* (LINNAEUS) USING HPLC" by Padmavathi Sriram; **Academia Letters**, Dec 12, 2021.
- 10. Act as a REVIEWER for reviewing "EFFECT OF ANTIBIOTICS EXTRACTED FROM FUNGI" by Girma Waktola, Academia letter; Dec 4, 2021.
- 11. Act as a **REVIEWER** for reviewing "MICROBIAL QUALITY OF RAW MEAT FROM DIFFERENT BUTCHERIES IN MEKELLE CITY, TIGRAY, ETHIOPIA" by Zekeriye Fure, **Academia letter**; Dec 24, 2021.
- 12. Act as a **REVIEWER** for reviewing of "FOOD PRODUCTS QUALITY AND NUTRITION IN RELATION TO PUBLIC BALANCING HEALTH AND DISEASE" by Loai Aljerf; **Academia letter**; Dec 12, 2021.
- 13. Act as a **REVIEWER** for reviewing- "AN ASSESSMENT ON THE PHYSIOCHEMICAL AND MICROBIOLOGICAL PARAMETERS IN SELECTED SACHET WATER SOLD FOR CONSUMPTION IN OLD ROAD GAYE TOWN COMMUNITY MONTSERRADO, COUNTY JANUARY 2019 APRIL 2019" in **International Journal of Research and Scientific Innovation**; Dec 9, 2021.
- **14.** Act as a **REVIEWER** for reviewing- "VIRULENCE ANALYSIS OF BACTERIA ISOLATED FROM WASTEWATER IRRIGATED LANDS" by CH Goraya, **Academia letter**; Nov 25, 2021.
- 15. Act as a REVIEWER for reviewing "Shelf Life of Homeopathic Medicine," by Papiya Nandy; Academia letter; Dec 29, 2021.
- 16. Act as a REVIEWER for reviewing "Antibacterial Activities of Azadirachta indica and Syzigium guinensee on Bacteria Associated with Urinary Schistosomiasis," for International Journal of Research and Scientific Innovation (IJRSI) ISSN: 2321-2705; January 1, 2022.
- 17. Act as a REVIEWER for reviewing "Antibacterial Resistance and Medicinal Plants," by Rida Tanveer. Academia letter; Jan 5, 2022.
- **18.** Act as a **REVIEWER** for reviewing "Antimicrobial Activity of N-(4-Chlorobenzilidine)-1-phenylethanolamine and N-(4-Chlorobenzilidine) benzoic acid hydrazide," by Dr. Barakat Shabsoug. **Academia letter**; Jan 8, 2022.
- 19. Act as a **REVIEWER** for reviewing "Determination of the antibacterial activity of various parts of habanero pepper (leaves, fruit, root and stalks) against Escherichia Coli, Staphylococcus Aureus, Salmonella Enterica Isolated From Food Samples," by Oboh J. Emmanuel. **Academia letter**; Jan 11, 2022.
- 20. Act as a REVIEWER for reviewing "Gene edition capacity of estrogen signal is capable of curing cancer and further human diseases," by Zsuzsanna Suba. Academia letter; Jan 21, 2022.
- 21. Act as a **REVIEWER** for reviewing "Combination of phytotherapy by using herbal medicine from Paederia thouarsiana leaf crude extract and conventional therapy for the care of painful oral conditions in a clinical dentistry practice" (IRJMBS-22-004). **International Research Journal of Medicine and Biomedical Sciences** (January 19, 2022).
- 22. Act as a REVIEWER for reviewing "Antibacterial and Antifungal Activities of a Medicinal Soap Made from Ginger (*Zingiber Officinale*) and Clove (*Syzygium Aromaticum*) Essential Oils" (Ms_JALSI_81787), Journal of Applied Life Sciences International (January 28, 2022).
- 23. Act as a REVIEWER for reviewing "Immunity to intestinal tapeworms: Does antibody protect the parasite?," by Elsayed Elowni; Academia letter; Jan 12, 2022.
- 24. Act as a REVIEWER for reviewing -"Significant role of nanotechnology in cancer and molecular genetics" by Tansukh Barupal. Academia letter February 6, 2022.
- **25.** Act as a **REVIEWER** for reviewing "Formulation and antimicrobial analysis of polyherbal wash in Ambikapur Surgujia Chhattisgarh" (AEES 8000212002), **Applied Ecology and Environmental Sciences** (February 15, 2022).
- **26.** Act as a **REVIEWER** for reviewing " Plants and plant components with Cytoprotective property in West Africa sub region Systematic Review" (Ms APRJ 83197), **Asian Plant Research Journal** (February 15, 2022).

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- 27. Act as a REVIEWER for reviewing "Effective Halophile Identification in Tannery Raceways," by Tabin Brooks. Academia letter February 18, 2022.
- 28. Act as a REVIEWER for reviewing "Accelerating the screening and development of drugs for the treatment of breast cancer" (MOJBM-21-RA-329), The MedCrave online Journal, February 23, 2022.
- 29. Act as a REVIEWER for reviewing "Analysis of the methods of obtaining bioethanol", by Maria Esther Bautista Vargas, Academia letter February 24, 2022
- **30.** Act as a **REVIEWER** for reviewing "Benefits for human health: soybean and okara; amaranth, chia and quinoa seeds in the diet. An article.," by Hugo Genta. **Academia letter** April 5, 2022.
- 31. Act as a REVIEWER for reviewing "A Mini Review On Enzyme Based Biosensors and Their Biomedical Applications," by Gaser S Shahin. Academia letter April 6, 2022.
- 32. Act as a REVIEWER for reviewing "Kitchen garden: a curb to menace malnutrition and potential access to safe food," by Vinod Dhangrah. Academia letter April 14, 2022.
- **34.** Act as a **REVIEWER** for reviewing "Evaluation of Phytochemical contents and antioxidant activity of Mentha spicata (spearmint) Grown in Kano, Nigeria" (Manuscript Number: Ms_AJBGMB_86396); **Asian Journal of Biochemistry, Genetics and Molecular Biology**; April 15, 2022.
- 35. Act as a REVIEWER for reviewing "Evaluating the Antimicrobial Activity of Guava and Locust Bean Stem Extracts," by Emmanuel Ofosu Mensah; Academia letter April 29, 2022.
- **36.** Act as a **REVIEWER** for reviewing "Ayurveda crops as superfoods for export, conservation & farmers' benefit," by Utkarsh Ghate; **Academia letter** May 05, 2022.
- 37. Act as a REVIEWER for reviewing "Antimicrobial resistance: Its medical and legal vantage point," by Omotosho O Marvellous; Academia letter May 23, 2022.
- **38.** Act as a **REVIEWER** for reviewing "Comparative study of bio-efficacy of 4 medicinal plants against *Callosobruchus maculatus* on *Cajanus cajan*"; **Applied Ecology and Environmental Sciences**, May 24, 2022.
- 39. Act as a REVIEWER for reviewing "A Mineral Fibre: Basalt," by Jyoti Joshi. Academia letter May 28, 2022.
- **40**. Act as a **REVIEWER** for reviewing "Obtaining the interspecific hybrid in Nicotiana with resistance to Peronospora hyosciamy f.sp. tabacina (blue mold) from the seedbed.," by Humberto García Cruz. **Academia letter** May 29, 2022.
- 41. Act as a **REVIEWER** for reviewing "Benefits for human health: soybean and okara; amaranth, chia and quinoa seeds in the diet" by Hugo Genta's. **Academia letter**, June 9, 2022.
- 42. Act as a **REVIEWER** for reviewing "An Assessment of COVID-19 Related Stigma and It's Association with Informal Health Care Utilisation Among Corona Virus Survivors" (Ms. AJMAH 90463), Asian Journal of Medicine and Health, July 31, 2022.

PUBLICATIONS IN SCIENTIFIC JOURNALS (LOCAL / INTERNATIONAL) RESEARCH ARTICLES

LOCAL JOURNAL:

1996

- 1. Ahmed, Z., Chowdhury, N.A. and Choudhury, N. Microbiological Status and Radiosterilization of Cotton Based Medical Products in Bangladesh, Journal of Asiatic Society, Bangladesh, Science, 22: 163-169 (1996).
- 2. Ahmed, Z., Chowdhury, N.A., Khan, A.R. and Choudhury, N. Sterilization of Thiamine Hydrochloride by Radiation: A New Approach, Bangladesh Journal of Life Science, 8: 71-78 (1996).
- 3. Ahmed, Z., Chowdhury, N.A., Khan, A.R. and Choudhury, N. Microbiological and Physicochemical Aspects of radiation sterilization of Oxytetracycline-HCl powder, Bangladesh Journal of Microbiology, 13: 29-34 (1996).

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Ahmed, Z., Choudhury, N. and Akhter, F. Sterilization of lactose by Gamma Radiation, Bangladesh Journal of Microbiology, 14: 49-50, (1997).

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- 5. Haque, S., Alamgir, M. and Ahmed, Z. Fungal efficiency on retting of green ribbon of jute, Journal of Asiatic Society, Bangladesh, Science, 24: 303-307 (1998).
- **6. Ahmed, Z.** and Rashid, M. H. Radiosensitivity and low temperature storage behavior of microbes associated with ice packed Rita fish (Rita rita), Journal of Asiatic Society, Bangladesh, Science, 24: 329-337 (1998).
- 7. Rashid, M. H., Ahmed, Z., Rashid, H. -O., Fakhruddin, A.N.M and Choudhury, N. Combination effect of irradiation and low temperature on the survival of microbes of Rita fish kebab, Journal of Asiatic Society, Bangladesh, Science, 24: 309-318 (1998).
- 8. Ahmed, Z. and Rahman, M. Study of the prevalence of bacteria in different kinds of wound infection in Bangladesh, Bangladesh Journal of Scientific Research, 16: 245-248 (1998).

1999

- 9. Haque, M. S., Asaduzzaman, M., Alamgir, M., Ahmed, Z. and Islam, M. R. Role of microorganisms obtained from jute in the retting of dry ribbons of jute. Bangladesh Journal of Jute and Fibre Research, 23: 34-39 (1998-99)
- 10. Ahmed, Z., Akhter, F. and Alamgir, M. Isolation of some jute retting fungi from natural source and their effect on dry ribbon retting of CVL-1 jute (*Chorchorus capsularis*), Bangladesh Journal of Scientific Research, 17: 107-109 (1999).

2000

11. Ahmed, Z., and Izumori, K. Bacterial L-ribose and L-arabinose isomerase: Production, isolation, immobilization and characterization. Bangladesh Journal of Scientific Research, 35(1-4): 90-104 (2000).

2007

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12. Haque, M. S., Akhter, F., Halim, A., Ahmed, Z., and Dewan, K.H. Study Of Agrochemical Retting And Extraction Of Jute Through The Application Of Agro-Waste. Bangladesh J. Prog. Sci. & Tech., 5(2): 465-468 (2007).

2008

13. Shahidullah, M., Ahmed, Z., Akhter, F., Halim, A. and Hossain, H. M. Z. Use Of Cassava (Manihot Esculanta) As Natural And Indigenous Thickener For Preparation Of Textile Printing Paste. Bangladesh J. Prog. Sci. & Tech., 6(2): 507-510 (2008).

2011

- 14. Uddin, M.A., Ahmed, Z., Datta, S. Microbiological Analysis Of Medical Textiles And Effectiveness Of Antimicrobial Finished Fabrics. J. Primeasia University. 1 (1): 1-4 (2011).
- 15. Molla, M. A. M., Ahmed, Z., Shahidullah, M., Sayeed, M. M. A., and Lutfar L. B. Lustre Variation Of The Fibre Of Tossa Jute Cultivated In Major Growing Areas Of Bangladesh. J. Primeasia University. 1 (1): 47-52 (2011).
- 16. Molla, M. A. M., Shahidullah, M., Anwer, M. M., Sayeed, M. M. A., Mollah M. A. K. and Ahmed Z. Quality Assessment Of Tossa Jute Fibre Grown In Different Districts Of Bangladesh. J. Primeasia University. 1(1): 53-58 (20011).

2013

- 17. Ahmed, O. and Ahmed, Z. Comparative Analysis For The Detection Of Tuberculosis By Conventional And Flurosence Microscopy. Bangladesh J. Medi. Sci. 12(3): 315-19 (2013); DOI: 10.3329/BJMS.V12I3.11104
- 18. Tamanna F. and Ahmed, Z. Bacteriological Study Of Post-Operative Abdominal Wound Infection- A Case Study. Bangladesh J. Medi. Sci. 12(1): 86-90 (2013); DOI: 10.3329/bjms.v12i1.10982

INTERNATIONAL JOURNAL:

1998

19. Bhuiyan, S. H., Ahmed, Z., Utamura, M., and Izumori, K. A New Method For The Production Of L-Lyxose From Ribitol Using Microbial And Enzymatic Reactions, Journal of Fermentation of Bioengineering, 85: 513-516 (1998). DOI: 10.1016/S0922-338X(98)80163-3

1999

- **20. Ahmed, Z.,** Shimonishi, T., Bhuiyan, S. H., Utamura, M., Takada, G. and Izumori, K. Biochemical Preparation Of L-Ribose And L Arabinose From Ribitol: A New Approach, Journal of Bioscience and Bioengineering, 88: 444-448 (1999); DOI: 10.1016/s1389-1723(99)80225-4; PMID: 16232643.
- Ahmed, Z., Sasahara, H., Bhuiyan, S. H., Saiki, T., Shimonishi, T., Takada, G. and Izumori, K. Production Of D-Lyxose From D-Glucose By Microbial And Enzymatic Methods, Journal of Bioscience and Bioengineering, 88: 676-678 (1999); DOI:10.1016/S1389-1723(00)87100-5.

2000

22. Ahmed, Z., and Bhowmik, P. K. Studies On The Oxidation Of Ribitol And D-Arabitol by *Acetobacter aceti* IFO 3281, Pakistan Journal of Biological Science, 3: 1492-1495 (2000); DOI: 10.3923/pjbs.2000.1492.1495.

2001

- 23. Haque, M. S., Asaduzzaman, M., Akhter, F., Samad, M. A., Baksh, T. and Ahmed, Z. Effect Of Nature Of Harvest Of Jute Plants On The Production Of Cuttings And Improvement Of Fibre Quality. Online Journal of Biological Science, 1: 563-564 (2001); DOI: 10.3923/jbs.2001.563.564.
- **24.** Bhowmik, P. K., Matsui, T. and **Ahmed, Z**. Changes In The Activities Of Sucrose Metabolizing Enzymes During The Germination Of Wheat Seeds. Pakistan Journal of Biological Science, 4: 1264-1266 (2001); DOI: 10.3923/pjbs.2001.1264.1266.
- 25. Haque, S. M., Asaduzzaman, M., Akhter, F., Hossain, M. M. and Ahmed, Z. Impact Of Stem-Water Ratio And Separately Retting The Top And Basal Parts Of Jute On The Quality Of Fibre. Pakistan Journal of Biological Science, 4: 1191-1193 (2001); DOI:10.3923/pjbs.2001.1191.1193
- 26. Haque, M. S., Ahmed, Z., Akhter, F., Asaduzzaman, M., Rahman, M. M. and Hannan, M. A. Comparative Studies Of Retting Properties Of Different Released Varieties Of Jute. Online Journal of Biological Science. 1:998-1000 (2001); DOI:10.3923/jbs.2001.998.1000
- 27. Ahmed, Z., Banu, H., Akhter, F. and Izumori, K. A Simple Method For D-Xylose Extraction From Jute Stick And Rice Husk. Online Journal of Biological Science,1: 001-1004 (2001); DOI: 10.3923/jbs.2001.1001.1004
- 28. Akhter, F., Tahmida, Z. N., Mondal, R. and Ahmed, Z. Physico-Chemical Changes Of Different Varieties Of Rice As Influenced By The Application Of Blue-Green Algae. Pakistan Journal of Biological Science, 4:1306-1311(2001); DOI: 10.3923/pjbs.2001.1306.1311.
- **29. Ahmed, Z.** The Properties Of Candida Famata R28 For D-Arabitol Production From D-Glucose. Online Journal of Biological Science, 1:1005-1008 (2001); DOI: 10.3923/jbs.2001.1005.1008.
- **30.** Gani, M. N., Alam, M. M., Alam, A. K. M. M., Khandker, S. and **Ahmed , Z.** Influence Of City Waste Compost On Soil Properties, Growth And Yield Of Jute. Pakistan Journal of Biological Science. 4:1484-1486 (2001); DOI: 10.3923/pjbs.2001.1484.1486.
- 31. Talukder, F. A. H., M. M. Islam, S. C. Chanda, Ahmed, I. and Ahmed, Z. Phenology Of Jute, Kenaf And Roselle Seed Crops At Different Date Of Sowing. Pakistan Journal of Biological Science, 4:1316-1318 (2001); DOI: 10.3923/pjbs.2001.1316.1318.
- 32. Haque, M. S., Asaduzzaman, M., Akhter, F. and Ahmed, Z. Retting Of Green Jute Ribbons (Corchorus Capsularis Var. Cvl-1) With Fungal Culture. Online Journal of Biological Science, 1:1012-1014 (2001); DOI:10.3923/jbs.2001.1012.1014.

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- 33. Akhter, F., Ahmed, Z., Tahmida, Z. N. and Mondal, R. Increase Of Macro-Nutrients In Soil By The Application Of Blue Green Algae In Rice Production. Pakistan Journal of Biological Science. 5:19-24 (2002); DOI: 10.3923/pjbs.2002.19.24.
- 34. Haque, M. S., Ahmed, Z., Asaduzzaman, M., Quasham, M. A. and Akhter, F. Distribution And Activity Of Microbial Population For Jute Retting And Their Impact On Water Of Jute Growing Areas Of Bangladesh. Pakistan Journal of Biological Science, 5: 704-706 (2002); DOI: 10.3923/pjbs.2002.704.706.
- 35. Hussain, M. A., Huq, M. E., Rahman, S. M. and Ahmed, Z. Estimation Of Lignin In Jute By Titration Method. Pakistan Journal of Biological Science, 5: 521-522 (2002); DOI: 10.3923/pjbs.2002.521.522.
- **36.** Mahabubuzzaman, A.K.M., Lutfar, L. B., Kabir, M. K.and **Ahmed, Z**. A Comparative Study On The Quality Control Of Jute Yarn Conventional Drawing Method Vs Modern Drawing Method. Asian Journal of Plant Sciences, 1: 646-647 (2002); DOI: 10.3923/ajps.2002.646.647.

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2003

- 37. Mahabubuzzaman, A.K.M., Lutfar, L. B., Asaduzzaman, M., Miazi, M. O. G., Dilruba, F. A. and Ahmed, Z. Study On The Quality Of Gardella Fine Yarn In Comparison To Modified Ring Spinning Frame Fine Yarn. Pakistan Journal of Biological Science, 6: 76-77 (2003); DOI: 10.3923/pjbs.2003.76.77
- **38.** Mahabubuzzaman, A.K.M., Lutfar, L. B., Asaduzzaman, M., Dilruba, F. A. and **Ahmed, Z**. Comparative Study On The Effect Of Jute Seed Oil Emulsions With That Of Conventional Emulsions Using Mineral Oil On Yarn Quality In Jute Processing. Pakistan Journal of Biological Science, 6: 78-79 (2003); DOI: 10.3923/pjbs.2003.78.79
- 39. Akhter, F., Ahmed, Z., Banu, H. and Haque, M. S. Utilization And Feasibility Of Retting Effluent As Fertilizer In Vegetable Crops Production. Pakistan Journal of Biological Science, 6:341-343 (2003); DOI: 10.3923/pjbs.2003.341.343
- **40.** Haque, M. S., **Ahmed, Z.**, Biswas, A. K. and Akhter, F. Identification Of Micrococcus Sp. Responsible For The Acceleration Of Jute Retting. Pakistan Journal of Biological Science, 6: 686-687 (2003); DOI: 10.3923/pjbs.2003.686.687
- **41. Ahmed, Z.**, Haque, M. S., Akhter, F. and Begum, M. Study Of The Chemical Composition Of Different Pipeline Varieties Of Jute Fibres. Pakistan Journal of Biological Science, 6:1463-1469 (2003);DOI: 10.3923/pjbs.2003.1463.1467

2006

42. Ahmed, Z. Optimization Of Pcr Conditions In Vitro For Maximum Amplification Of Dna From Xanthomonas Campestris 13551. Journal of Applied Sciences Research, 2(3): 112-122 (2006).

2009

43. Shahidullah, M., Uddin, M. M., Sayeed, M. M. A., Shahinur, S. and **Ahmed, Z.** Effect Of Different Pretreatment On Various Properties Of Undyed And Dyed Jute Fabrics. Journal of Textile and Apparel Technology and Management, North Carolina State University, USA. 6 (1): 1-9 (2009).

2010

44. Mirza, T., Datta, S., **Ahmed**, **Z.** and Biswas, S. A Comparative Analysis Of The Drug Resistance In Staphylococcus Aureus Isolated From Various Sources In Dhaka, Bangladesh. Journal of Pure and Appl Micro (2010); DOI: 0000-0001-9274-6018.

2012

- 45. Nahor, U. and Ahmed, Z. Antimicrobial Activity Of Phyllanthus Emblica And Allium Sativum: Comparative Analysis Of Antimicrobial Action Of Crude And Ethanolic Extract Of These Natural Plant Products. IOSR Journal of Pharmaceutical Biological Science, 4(3): 21-26 (2012); DOI:10.9790/3008-0432126.
- **46.** Akhter, L. and **Ahmed, Z.** Present Status And Antibiotic Sensitivity Pattern Of Salmonella Typhi And S. Paratyphi In Different Age Group Hospitalized Patients In Dhaka City, Bangladesh. IOSR Journal of Pharmaceutical Biological Science., 4(3): 27-30 (2012); DOI:10.9790/3008-0432730

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- 47. Nayem, M. U. M. R. and Ahmed, Z. Microbiological Status Of Different Sweet And Sweet Products In Dhaka City, Bangladesh. International Journal of Bio-Technology and Research (IJBTR), 3(1), 1-10, (2013).
- **48.** Khan, M. J. A. and **Ahmed, Z.** Study On The Current Status Of Secondary Infection Of Pulmonary Tuberculosis Patients In Bangladesh. International Journal of General Medicine and Pharmacy (IJGMP), 2(2): 11-16 (2013).
- 49. Chakrabortty, S. and Ahmed, Z. Study Of Antimicrobial Activity Of Ayurvedic And Unani Medicine And Their Comparative Analysis With Commercial Antibiotics, IMPACT: International Journal of Research in Applied, Natural and Social Sciences (IMPACT: IJRANSS), 1(3): 63-74 (2013).
- **50.** Magnet, M.M.H., Arongozeb, M., Muktadir, G. and **Ahmed, Z.** Isolation And Identification Of Different Bacteria From Different Types Of Burn Wound Infections And Study Their Antimicrobial Sensitivity Pattern. IMPACT: International Journal of Research in Applied, Natural and Social Sciences (IMPACT: IJRANSS), 1(3): 125-132 (2013).
- 51. Magnet, M.M.H., Sarkar, D. and Ahmed, Z. Isolation And Identification Of Bacteria And Fungi From Soil Samples Of Different Industry Side In Dhaka City, Bangladesh. International Journal of Innovative Research & Development, 2(8): 338-339 (2013).
- **52.** Quddus A.S.M R., Hossain S.M. and **Ahmed Z.** Study Of Atherosclerosis In Normal And Diabetic Patients. BEST: International Journal of Humanities, Arts, Medicine and Sciences (BEST: IJHAMS), 1(1): 27-36 (2013).
- 53. Haque L. and Ahmed, Z. Isolation, Identification And Antimicrobial Sensitivity Pattern Of Bacterial Isolates From Tracheal Aspirate Of Icu Patients Of Central Dhaka, Bangladesh International Journal of Research in Applied, Natural and Social Sciences (IMPACT: IJRANSS) 1(7), 11-16 (2013).
- **54.** Hossain M. A. and **Ahmed Z.** Detection And Identification Of Tubercle Bacilli By Different Methods From Sputum And Blood Samples Of Hospitalized Patients In Bangladesh. American Journal of Advances in Medical Science (www.arnaca.com), 1(2): 13-21 (2013).

2016

55. Ahmed Z. and Ali M. J. B. MRSA Infection In Pus And Wound Swab Samples In Hospilized Patients In Bangladesh. European Journal of Biomedical and Pharmaceutical Sciences. 3(4), 289-294 (2016); Corpus ID: 212539243.

2017

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Vol.- 7. Page 1-17

Publisher Book Publisher International

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Author(s): Maruf Abony, Avijit Banik and Zakaria Ahmed

Vol - 7; page-127-154 ISBN: 978-93-5570-127-5

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Chief Editor: Dr. Veena Pani Srivastava, Senior Scientist & Head, JNKVV, Krishi Vigyan Kendra, Chhatarpur, Madhya Pradesh, India; Co-Editor: Dr.

A.D. Ashok, Assistant Professor (Horticulture), Institute of Agriculture, AEC & RI Campus, TNAU, Kumulur, Tamil Nadu, India.

Published By: AkiNik Publications, 169, C-11, Sector - 3, Rohini, Delhi-110085, India. Toll Free (India) - 18001234070

Publication Year: 2022.

BOOK

Book Title: Advancement In Biological Chemistry And Nanotechnological Research On Fiber Plants

ISBN: 978-1-63902-906-8; PAGES 141. YEAR: 2022.

Author: Zakaria Ahmed, Shuranjan Sarkar

Publisher: Generis Publishing (www.generis-publishing.com)

Contact email: info@generis-publishing.com

Website: https://www.generis-publishing.com/book.php?title=advancement-in-biological-chemistry-and-nanotechnological-research-on-fiber-plants

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- Participated in the Workshop on "Initiatives in Science Education, Research and Capacity Building"; 14-15 September 2013, Dhaka, Bangladesh;
 Organized by Bangladesh Academy Of Sciences (BAS) and The World Academy Of Sciences- Regional Office For Central & South Asia (TWAS-ROCASA). Post No. 17.
- 3. The International Workshop "Strategic Cooperation in Higher Education in Pandemic context: experiences, challenges, and perspectives" held online, on 9th of December, 2021. The workshop was supported by the INTENS-0 II project, code CNFIS-FD!-2021-0387, financed by the Ministry of Education, Ovidius University of Constanta, Romania.
- 4. Gemone BJRI

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