

Curriculum vitae (CV)

Dr. Md. Anisur Rahman Khan



- 1. Name:** **Dr. Md. Anisur Rahman Khan**
- 2. Present Address:** **Professor, Department of Microbiology,
University of Dhaka, Dhaka-1000, Bangladesh**
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E-mail: aniskhan@du.ac.bd.**

4. Education and Research:

Postdoctoral Study in Microbial Biotechnology / Applied Microbiology and Enzymology, Applied Enzymology Laboratory, Department of Applied Microbiology, National Food Research Institute, Ministry of Agriculture, Forestry and Fishery (MAFF), Government of Japan. Tsukuba Science City, **Japan**. March, **1998 to March, 2000**

Postdoctoral Study in Molecular Biology and Protein Engineering / Microbial Biotechnology , Protein Engineering Laboratory, Department of Molecular Biology, National Institute of Bioscience and Biotechnology, Agency of Industrial Science and Technology (AIST), Ministry of International Trade and Industry (MITI), Government of Japan, Tsukuba Science City, **Japan**. March, **1997 to March, 1998**.

Postdoctoral Study in Industrial Biotechnology. German National Institute of Biotechnology (GBF), Braunschweig, **Germany**. **1996**

Ph. D. in Applied Microbiology, Department of Bioresource sciences (United Graduate School of Agricultural Sciences (UGAS), **Ehime University, Japan**. September, **1993**.

M. Sc. (Thesis) from the Department of Microbiology, Faculty of Biological sciences, University of Dhaka, Dhaka-1000, Bangladesh. 1983 (Exam. Held in 1988). Result-First Class.

B. Sc. (Honours) from the Department of Soil water and Environment, Faculty of Biological sciences, University of Dhaka, Dhaka-1000, Bangladesh. 1982 (Exam. Held in 1985). Result-First Class.

H. S. C. (Science), Notre Dame College. Dhaka.1979

S. S. C. (Science), Mirpur B. M. (Govt.) High School. Dhaka, 1977

5. Position Held:

Professor : April, 2003 – Present : Department of Microbiology, University of Dhaka, Dhaka-1000, Bangladesh

Chairman : September, 2006 – June, 2009 : Department of Microbiology, University of Dhaka, Dhaka-1000, Bangladesh

Associate Professor : September, 1997 – March, 2003 : Department of Microbiology, University of Dhaka, Dhaka-1000, Bangladesh

Chairman : January, 1997 – March, 1997 : Department of Microbiology, University of Dhaka, Dhaka-1000, Bangladesh

Assistant Professor: October, 1993 – September, 1997:., Department of Microbiology, University of Dhaka, Dhaka-1000, Bangladesh

Lecturer : November, 1988 - October, 1993 : Department of Microbiology, University of Dhaka, Dhaka-1000, Bangladesh.

6. Scholarships and Fellowship obtained:

STA Post Doctoral Fellowship (Japan): March, 1998 to March, 2000 (By the Science and Technology Agency, Ministry of Science and Technology, Government of Japan) to pursue Post Doctoral Research at Enzyme Application Laboratory, Department of Applied Microbiology, National Food Research Institute, 2-1-2, Kannondai, Tsukuba Science City, Japan.

Visiting Research Scientist Fellowship (AIST, Japan): March, 1997 to March, 1998. (By the Agency of Industrial Science and Technology (AIST), Ministry of International Trade and Industry (MITI), Government of Japan) to pursue advance postdoctoral research in *Molecular Biology and Protein Engineering*, at Protein Engineering Laboratory, Department of Molecular Biology, National Institute of Bioscience and Biotechnology, Agency of Industrial Science and Technology (AIST), Government of Japan, Tsukuba Science City, Japan.

UNESCO-Germany Govt. ITP-Fellowship, 1996. to pursue Postdoctoral Study in *Industrial Biotechnology*. German National Institute of Biotechnology (GBF), Braunschweig, Germany.

STA Fellowship (Post Doctoral): January, **1996 to March, 1996** (By the Science and Technology Agency, Ministry of Science and Technology, Government of Japan and JISTEC) to pursue Post Doctoral Research at Enzyme Application Laboratory, Department of Applied Microbiology, National Food Research Institute, Tsukuba Science City, Japan.

Japanese Government Monobusho Scholarship: 1990 to 1993. (By: Ministry of Education, and Culture, Japan) to pursue PhD programme in the Department of Bioresource Science, Faculty of Agriculture, Kagawa University) and United Graduate School of Agricultural Sciences (UGAS), Ehime University, Japan.

Government Talent Pool Scholarship to pursue M.Sc. course in the Department of Microbiology, University of Dhaka, BANGLADESH

7. Experience in teaching:

Teaching various theoretical and practical courses at the Ph.D, M.Phil, M.S and Undergraduate (UG) students as Course Teachers of the following courses:

1. Introduction to Microbiology
2. Microbial Ecology
3. Introduction to Environmental Science
4. Introduction to Environmental Management
5. General Microbiology-1 & II
6. Environmental Microbiology
7. Food Microbiology
8. Fish Microbiology and Quality control
9. Environmental pollution and Bioremediation
10. Medical Microbiology
11. Agricultural Microbiology
12. Industrial Microbiology
13. Pharmaceutical Microbiology
14. Microbial Biotechnology
15. Fermentation Technology
16. Quality Control of Food, Pharmaceutical and Fish
17. Environmental Pollution and Microbial Control
18. Advance Industrial microbiology
19. Enzyme and Protein Biotechnology
20. Bioprocess Technology
21. Extremophiles and novel biological products
22. Biomass and Biofuel

8. Research area :

Environmental Science, Environmental Microbiology, Applied Microbiology / Industrial Microbiology/ Microbial Biotechnology, Food Microbiology, Fermentation and Enzyme Biotechnology.

9. List of research publications:

1. Occurrence of hybrid *Escherichia coli* strains carrying shiga Toxin and heat-stable Toxin in livestock of Bangladesh. Fatema-Tuz Johura, Rozina Parveen, Atiqul Islam, Abdus Sadique, Md Niaz Rahim, Shirajum Monira¹, **Anisur R. Khan**, Sunjukta Ahsan, Makoto Ohnishi, Haruo Watanabe, Subhra Chakraborty, Christine M. George, Alejandro Cravioto, Armando Navarro, Badrul Hasan and Munirul Alam. **Frontiers in Public Health**, Volume 4, Article 287, 2017. www.frontiersin.org.
2. Occurrence of enteric pathogens and estimation of physico-chemical parameters of Pagla Sewage Treatment Plant, Dhaka. R. Patwary, M.U.Rashid and **Anisur Rahman Khan**. **Journal of Biodiversity Conservation and Bioresource Management**. 2(1), 41-46. (2016).
3. A comparative analysis of bacterial flora of Mud Crab *Scylla Olivaceae* Forsskal 1775 collected from different local markets of Dhaka city. Farhana Karim, M. G. Mustafa, Dewan Aali Ahsan and **Anisur Rahman Khan**. **Bangladesh Journal of Zoology**. 43 (1), 66-71. (2015).
4. Microbial occurrence at different freezing duration in speckled shrimp *Metapenaeus monoceros (fabricus, 1798)* from local of Dhaka city. **Anisur Rahman Khan**, T Yasmin, S. S. Nilla, M. M. R. Khan, Naziza Rahman, M. M. U. Rashid, and M. G. Mustafa. **D U Journal of Biological Science**. 22(2), 91-101 (2013)
5. Effect of freezing period on the microbial and nutrient quality of pool barb, *Puntius sophore* from Dhaka city retail market, Bangladesh. M. G. Mustafa, T Yasmin, S. S. Nilla, M. M. R. Khan and **Anisur Rahman Khan**. **Bangladesh Journal of Zoology**. 41(1), 1-11. (2013).
6. Bacteriological Quality of marketed Mola fish *Amblypharyngodon Mola* from Dhaka Metropolis. S. S. Nilla, **Anisur Rahman Khan**. M. M. R. Khan, D. A. Ahsan. and M. G. Mustafa, **Bangladesh Journal of Zoology**. 40(1), 77-88. (2012).
7. Bacterial abundance in indian white shrimp *Penaeus indicus* collected from two different market condtions in Dhaka city. S. S. Nilla, M. G. Mustafa, D. A. Ahsan. M. M. R. Khan and **Anisur Rahman Khan**. **D U Journal of Biological Science**. 21(1), 29-38. (2012).
8. Molecular epidemiology of adenovirus infection among infants and children with acute gastroenteritis in Dhaka City, Bangladesh. Dey Shuvra Kanti; Shimizu, Hideaki; Phan, Tung Gia; Hayakawa, Yuko; Islam, Abul; Salim Abul Faiz Mohammad;| **Anisur Rahman Khan**; Mizuguchi, Masashi;| Okitsu, Shoko; snd Ushijima, Hiroshi. **Infection, genetics, and evolution**, Vol: 9, Pages: 518-522 (2009)
9. Phospholipase A from Cytosolic Fraction of *Pyrococcus horikoshii* Having High Reaction Temperature. **Annals of the New York Academy of Sciences**. YOSHITSUGU KOSUGI, YONG-GOE JOH, **ANISUR RAHMAN KHAN**, KATSUHIKO HIGUCHI, KAZUHIKO ISHIKAWA and IKUO MATSUI. Volume 864, Issue 1, 1998, Pages: 349–351, Article first published online: 7 FEB 2006, DOI: 10.1111/j.1749-6632.1998.tb10337.

10. Partial purification and characterization of phospholipase A₂ from *Pyrococcus horikoshii*. Feng Yan , Kosugi Yoshitsugu , **Anisur Rahman Khan** , Joh Yong-Goe , Ishikawa Kazuhiko , Ishida Hiroyasu , Higuchi Katsuhiko , Matsui Eriko , Masuchi Yaeko , Kawarabayashi Yutaka , Matsui Ikuo . Proceedings of the 1998 Conference of Society for Biotechnology, Japan, 178, 1998.
11. Characterization of an organic solvent resistant and thermostable leucine aminopeptidase from the hyperthermophilic bacterium, *Aquifex aeolicus*. **Anisur Rahman Khan**, S. Nirasawa, S.Kaneko, T. Shimonishi and K. Hayashi. **Enzyme and Microbial Technology (USA)**. 27, 83-88. (2000).
12. Heat resistant dehydrogenase, DNA coding the heat resistant dehydrogenase, process for preparing heat resistant dehydrogenase and use of heat resistant dehydrogenase. **Anisur Rahman Khan**, Y. Kosugi, S. Ando, H. Ishida, K. Ishikawa, E. Matsui, Y. Kawarabashi and I. Matsui. **The Japan Patent**. Patent No. 3032779. (Date of patenting 17-4-2000). (2000)
13. Molecular cloning and expression of leucine aminopeptidase gene from the hyperthermophilic bacterium, *Aquifex aeolicus*. **Anisur Rahman Khan**, S. Kaneko, S.Nirasawa, T.Shimonishi and K.Hayashi. In : **Genetics, Biochemistry and Molecular Biology of Cellulose degradation**. Book published by **UNI Publishers Co. Ltd. Tokyo, Japan**. P 758-765 (1999)
14. Shuffling of xylanase genes of *Streptomyces olivaceoviridis* and *Thermoplasma alba* and characterization of the translated chimeric enzymes. M. M. Ahsan, S. Kaneko, **Anisur Rahman Khan**, Q. Wang, I. Kusakabe, Y. Sato, K. Yura, M. Go and K. Hayashi. In : **Genetics, Biochemistry and Molecular Biology of Cellulose degradation**. Book published by **UNI Publishers Co. Ltd. Tokyo, Japan**.P 271-279 (1999)
15. Cloning and expression of a gene encoding solvent resistant and thermostable aminopeptidase. 1999. **Anisur Rahman Khan**, Satoru Nirasawa, Satoshi Kaneko, Tsuyoshi Shimonishi and Kiyoshi Hayashi. **The Protein Science**. 24 (8), 16-17, 1999
16. Production of D-sorbose from D-tagatose by immobilized D-tagatose 3-epimerase. H. Itoh, T. Sato, T. Takeuchi, **Anisur Rahman Khan** and K. Izumori, **J. Ferment. Bioeng (Japan)**. 79, 184, (1995).
17. Purification and characterization of D-tagatose 3-epimerase from *Pseudomonas* spp. ST-24 H. Itoh, H. Okaya, **Anisur Rahman Khan**, S. Tajima, S. Hayakawa, and K. Izumori.St-24. **Biosci. Biotech. Biochem (Japan)**. 58, 2168-2171 (1994).
18. A new enzyme D-ketohexose 3-epimerase from *Pseudomonas* spp. ST-24. K. Izumori, **Anisur Rahman Khan**, H. Okaya, and T. Tsumura. **Biosci. Biotech. Biochem (Japan)**. 57, 1037-1039 (1993).
19. "D-sorbose fermentation" from galactitol by *Pseudomonas* spp. ST-24. **Anisur Rahman Khan**, S. Takahata, T. Tsumura, and K. Izumori. **J. Ferment. Bioeng (Japan)**. 74, 1149-152 (1992).

20. Conversion xylitol to of L-xylulose by *Alkaligenes* spp. 701B. **Anisur Rahman Khan**, H. Tokunaga, K. Yoshida, and K. Izumori. **J. Ferment. Bioeng (Japan)**. **79**, 488-490 (1991).
21. Production of human protein in high-cell density cultivation of recombinant *E. coli* **Anisur Rahman Khan**, M.A. Z. Ayub, A. Kumar, and A. A. Salguero. Proceedings of the 10th ITP in **Industrial Biotechnology**. German National Institute of Biotechnology (GBF), Braunschweig, **Germany**. 1-6 (1996).
22. Food Safety and Public Health Concerns In Developing countries. The proceedings of the Bangladesh Academy of Sciences (the Japan-Bangladesh joint conference on food safety and Hygiene, 24-25 March, 2008) Naiyyum Choudhury, D. J. Gomes, and **Anisur Rahman Khan**. . 1-14 (2008).
23. Food safety in public health and economic development issues for developing countries. D. J. Gomes, S. A. Nayeem, J. Shafiq, **Anisur Rahman Khan** and Naiyyum Choudhury. **Bangladesh J. Medical Science**. 14 (1) 1-16. (2008).
24. Isolation and identification of indigenous baker's yeast. Nasrin Jahan, Nafisa Azmuda and **Anisur Rahman Khan**. **Bangladesh J. Microbiol**. 24(1), 65-66. (2007).
25. Production and comparison of indigenous and commercial baker's yeasts. Nafisa Azmuda, Nasrin Jahan and **Anisur Rahman Khan**. **Bangladesh J. Microbiol**. 23(2), 89-92. (2006).
26. Effect of radiation sterilization on the physicochemical properties and microbial load of Amoxicillin Tri-Hydrate powder. M.H. Kabir, **Anisur Rahman Khan**, M. J. Akhter, M. A. Malek.. N. A. Chowdhury, and N. Choudhury. **Bangladesh J. Microbiol**. 23(2), 165-167. (2006).
27. Drug sensitivity pattern and plasmid profile of pathogenic bacterial isolated from patients with burn infections. Shahzada Khan, Sangita Ahmed and **Anisur Rahman Khan**. **Bangladesh J. Microbiol**. 23(1), 49-51. (2006).
28. Extraction of chitin / chitosan from shrimp wastes and application of irradiated chitosan as an anti-bacterial agent. S. C. Saha, S. M. Asaduzzaman, Abdullah Al Mahin, H. Rashid, and **Anisur Rahman Khan**. **DU Journal of Biological Science**. 14(2), 161-168. (2005).
29. Microbiological and physicochemical aspects of radiation sterilization of chloramphenicol powder. M Humayun Kabir, **Anisur Rahman Khan**, M Iqbal Hassan Khan, Naiyyum Choudhury and M A Malek. **Bangladesh J. Microbiol**. 22(2), 171-173. (2005).
30. Effect of radiation sterilization on the physicochemical properties and microbial load of dexamethasone sodium phosphate powder. M.H. Kabir, **Anisur Rahman Khan**, M. J. Akhter, M. A. Malek.. N. A. Chowdhury, and N. Choudhury. **Bangladesh J. Microbiol**. 22(1), 68-71. (2005).
31. Assesment of of microbiological quality of some fast foods in relation to safety and

- hygiene. M. Nizamuddin, Abdullah Al Mahin, R. Begum and **Anisur Rahman Khan** . **Bangladesh J. Microbiol.** 22(1), 72-75. (2005).
32. Microbiological analysis of some common raw vegetables collected from different markets of Dhaka city. A. B. M. Raisul Alam, Abdullah Al Mahin, R. Begum and **Anisur Rahman Khan** . **Bangladesh J. Microbiol.** 21(2), 65-67. (2004).
 33. Solid-state fermentation by pleurotus sajor-caju for upgrading agro-industrial wastes to animal feed. Abdullau-Al-Mahin, M.S. Islam, N. Choudhury, N.A. Chowdhury, M. A. Malek and Anisur Rahman Khan. **D U Journal of Biological Science.** 13(2), 181-189. (2004).
 34. Production of extracellular carboxymethyl cellulase and avicelase by a sawdust degrading *Streptomyces* sp. Mohsina Huq, Md. Majibur Rahman, **Anisur Rahman Khan** and Md. Abdul Malek. **Bangladesh J. Microbiology.** 19(1&2), 1-6. 2002.
 35. Decontamination of agro-industrial cellulosic wastes by physical and chemical treatments. Abdullah-Al-Mahin, M.S. Islam, S.M. Asaduzzaman, N. A. Chowdhury, M.A. Malek and **Anisur Rahman Khan.** **Bangladesh J. Microbiology.** 19(1&2), 47-52. 2002.
 36. Bacteriological analysis of catla fish (*Catla catla*) in marketing conditions. H. Rashid, A.M.F. Rabby, S.M. Asaduzzaman, G.C. Debnath, **Anisur Rahman Khan** and N. Choudhury. **Bangladesh J. Microbiology.** 19(1&2), 99-100. 2002.
 37. Microbiological aspects of spoilage of dried loita fish (*Harpodon neheius*) and their preservation by radiation. M. A. Islam, **Anisur Rahman Khan**, H. Rashid, S. M. Asaduzzaman, N. Choudhury. **Bangladesh J. Microbiol.** 18(1), 39- 46. (2001).
 38. Microbiological and physicochemical Aspects of Radiation Sterilization of Riboflavin 5'-Phosphate Sodium Powder M.H. Kabir, N. A. Chowdhury, **Anisur Rahman Khan**, N. Choudhury and M. A. Malek.. **Bangladesh J. Microbiol.** 18(1), 67-72. (2001).
 39. Changes of microbiological, physico-chemical, and organoleptic properties of dried loita fish (*Harpodon neheius*) during storage. M. A. Islam, **Anisur Rahman Khan**, H. Rashid, S. M. Asaduzzaman and N. Choudhury. **Bangladesh J. Sci. and Technol.** 4 (2) 249-254. 2001
 40. Partial purification of alkaline protease from *Bacillus* spp. S. K. Bakshi, **Anisur Rahman Khan**, M. Akhteruzzaman, and N. Choudhury. **J. Asiat. Soc. Bangladesh, Sci.** 26 (1), 1-8 (2000).
 41. Microbial Contamination of Rita (*Rita rita*) Fish and its Kebab. M. H. Rashid, **Anisur Rahman Khan**, A.N.M. Fakhruddin and N. Choudhury. **Bangladesh J. Microbiol.** 16, 179-184 (1999&(2000))
 42. Sterilization of thymine hydrochloride by radiation : a new approach. Z. Ahmed, **Anisur Rahman Khan**, H. Rashid, N. A. Choudhury and N. Choudhury. **Bangladesh J. Life Sciences.** 8(1). 71-78. (1996)
 43. Effect of pesticides on soil bacterial populations. M. M. Rahman, **Anisur Rahman**

- Khan**, S. R. Rahman and G. Hossain. Dhaka Univ. **J. Biol. Sciences.** 5(2), 121-128. (1996)
44. Microbiological and physico-chemical aspects of radiation sterilization of oxytetracycline-HCl powder. Z. Ahmed, **Anisur Rahman Khan**, N. A. Choudhury and N. Choudhury. **Bangladesh J. Microbiol.** 13 (1), 29-34. (1996)
 45. Lactic acid bacteria as contaminants in alcohol fermentation. **Anisur Rahman Khan** and Mozammel Hoq. **Bangladesh J. Microbiol.** 7(2), 191-193 (1990)
 46. Alcohol production from molasses and liquid sugar using some indigenous yeast isolates. **Anisur Rahman Khan**, M. A. Malek, N. Choudhury, and S.I. Khan. **Bangladesh J. Microbiol.** 6 (1), 37-42 (1989)
 47. Microbes associated with vegetables spoilage and brine preservation of vegetables. **Anisur Rahman Khan**, N. Choudhury, S.I. Khan, A. Begum and H. Rashid. **Bangladesh J. Microbiol.** 6(1), 37-42. (1988)
 48. Brine preservation of vegetables in different types of containers. **Anisur Rahman Khan**, N. Choudhury, S.I. Khan, and A. Begum. **Bangladesh J. Microbiol.** 5(2), 7-10. (1988)
 49. Fungal isolates from brine preserved vegetables. **Anisur Rahman Khan**, S.I. Khan, N. Choudhury, H. Rashid and A. Begum. **Bangladesh J. Microbiol.** 4(2), 25-28. (1987)
 50. Fungal isolates for degradation of lignocellulosics. R. Islam, . Rashid. N. Choudhury and **Anisur Rahman Khan**. **Proceedings of the 15th Annual BAAS Conference.** AERE, Savar, Dhaka. Section-2, Page-46, 1990.
 51. Food biotechnology and role of microorganism. **Anisur Rahman Khan**. The proceedings of Japan- Bangladesh joint conference on food microbiology. p. 1-14 (2008).
 52. Hypertremophilic archaea: The third phylogenetic domain of life and its importance in biotechnology. **Anisur Rahman Khan** and Donald James Gomes. Proceedings of the 17th annual conference of the Bangladesh Society of Microbiologists. p. 10. (2000).
 53. Microbial production of xylitol – a low calorie sweetener. **Anisur Rahman Khan**. **Microbes in action**, p. 19-20 (2000).
 54. Microbes help preserve vegetables. **Anisur Rahman Khan**. **Microbes world**. p. 22. (1990).
- 11. Supervision of M.S, M.Phil / Ph.D research (thesis) works as thesis supervisor (Following thesis / Research works were supervised):**
1. Study of antimicrobial resistant bacteria occurring in urban effluent water and human gut in Dhaka city. M. Sc Thesis. Year of supervision : 2017-2018
 2. Real time PCR reveals multiple pathogens and simplex PCR shows AMR markers in human gut with or without diarrhea. Year of supervision : 2017-2018

3. Genetic properties and evolutionary trend of *ctxB* genotypes of *Vibrio cholerae* 0139 isolated from surface water and cholera in Bangladesh, 1993-2012. M. Sc Thesis. Year of supervision : 2016-2017
4. Isolation and molecular characterization of pathogenic *Escherichia coli* from drinking water of flood prone area of Bangladesh. M. Sc Thesis. Year of supervision : 2016-2017
5. Microbiological and nutritional studies of Hilsa (*Tenualosa ilisha*, Hamilton, Buchanan, 1822) at different salt curing method. M. Sc Thesis. Year of supervision : 2016-2017.
6. A hunt for *Listeria monocytogenes* from meat samples collected from Dhaka city: A glimpse into their virulence genes and antibiotic susceptibility. M. Sc Thesis. Year of supervision : 2015-2016
7. Virulence gene and antibiotic resistance profile of *Escherichia coli* from raw chicken samples obtained from retail market. M. Sc Thesis. Year of supervision : 2014-2015
8. Characterization of heavy metal tolerant *Lactobacillus* spp. isolated from yogurt samples. M. Sc Thesis. Year of supervision : 2014-2015
9. Effect of freezing duration on the microbial load and nutrient content of mud crab (*Scylla serrata* Forssakl, 1775). M. Sc Thesis. Year of supervision : 2014-2015
10. Seasonality and diversity of toxigenic *Vibrio parahaemolyticus* in the aquatic ecosystems of coastal Bangladesh. M. Sc Thesis. Year of supervision : 2013-2014
11. *Salmonella* spp. in betel leaf; Identification method and occurrence in samples collected from retail markets in Dhaka City. M. Sc Thesis. Year of supervision : 2013-2014
12. A comparative analysis of bacterial flora and proximate composition of mud crab (*Scylla serrata*, Forssaka 1775) collected from different local markets of Dhaka city. M. Sc Thesis. Year of supervision : 2013-2014
13. Sources of *Vibrio cholerae* 01 causing epidemics in coastal villages of Bangladesh. M. Sc Thesis. Year of supervision : 2011-2012
14. Microflora distribution and occurrence of pathogenic bacteria in raw dairy milk samples collected from rural areas of Bangladesh. M. Sc Thesis. Year of supervision : 2010-2011
15. Drug susceptibility, virulence and molecular properties of *Vibrio cholerae* 01 causing in Chhatak, Bangladesh. M. Sc Thesis. Year of supervision : 2010-2011
16. Effect of freezing duration on the microbial load in Jati Punti (*Puntius sophore*) and Horina Chingri (*Metapenaeus monoceros*). M. Sc Thesis. Year of supervision : 2010-2011
17. Multidrug genetic screening of *Vibrio cholerae* 01 isolated from endemic cholerae in Mexico (2004 – 2008). M. Sc Thesis. Year of supervision : 2009-2010
18. Genetic diversity of *tdh*⁺ *Vibrio parahaemolyticus* occurring in coastal aquatic environment of Bangladesh. Year of supervision : 2009-2010
19. Bacterial flora and proximate composition in Indian white shrimp and Mola from markets and Gher of Dhaka city and southwest Bangladesh. M. Sc Thesis. Year of supervision : 2009-2010
20. Conventional PCR based identification of *Mycobacterium* spp. from lymph node aspirates and their drug susceptibility testing. M. Sc Thesis. Year of supervision : 2008-2009
21. Prevalence of tuberculosis of cattle belongs to government dairy farm and to individual farmers. M. Sc Thesis. Year of supervision : 2008-2009
22. Microbiological and Histopathological study of vital organs of dead cows for the isolation and characterization of *Mycobacterium* spp. M. Sc Thesis. Year of supervision : 2008-2009.

23. Prevalence of *Vibrio parahaemolyticus* in the coastal aquatic ecosystems of Bangladesh. M. Sc Thesis. Year of supervision : 2007-2008
24. Characterization of *Vibrio cholerae* 0139 Bengal isolated between 1993-2006. M. Sc Thesis. Year of supervision : 2007-2008.
25. Detection of *ipaH* gene in large *Escherichia coli* from different sources of Bangladesh. M. Sc Thesis. Year of supervision : 2007-2008
26. Characterization of multi-drug resistant *Mycobacterium tuberculosis* : Prevalence of different phylogenetic clades and sensitivity to second line anti-tuberculosis drugs. M. Sc Thesis. Year of supervision : 2006-2007
27. Virulence potential of *Escherichia coli* isolated from livestock samples: Molecular and phylogenetic analyses. M. Sc Thesis. Year of supervision : 2006-2007
28. Virulence and : Molecular traits of *Escherichia coli* of clinical, environmental and livestock origins: DNA sequencing and proteomic analyses of *Stx* gene. M. Sc Thesis. Year of supervision : 2006-2007
29. Incidence of Salmonella in street vended fruit juice samples and comparative characterization with clinical isolates of Bangladesh. M. Sc Thesis. Year of supervision : 2005-2006
30. Clonal traits of Mycobacteria causing tuberculosis in Bangladesh. M. Sc Thesis. Year of supervision : 2005-2006
31. Molecular Characterization of diarrhoeagenic non- 01/ non-0139 serogroup strains of *Vibrio cholerae* and their comparison with environmental strains. M. Sc Thesis. Year of supervision : 2005-2006
32. Assessment of Bacterial contamination of tube well water in Bangladesh and probable sources of contamination: Implication in disease transmission. M. Sc Thesis. Year of supervision : 2004-2005.
33. Microbiological quality assessment of fast foods and fruit juices collected from different shops of Dhaka city. M. Sc Thesis. Year of supervision : 2004-2005.
34. *In vitro* antibacterial activity of chloroform and ethanol extracts of cloves (*Syzygium aromaticum*) against some multi-drug resistant human pathogens. M. Sc Thesis. Year of supervision : 2004-2005.
35. Microbiological assessment of locally available fast foods and soft drinks collected from different fast food restaurants. M. Sc Thesis. Year of supervision : 2002-2003.
36. Upgrading of Cellulosic agrowastes to animal feed through radiation and solid state fermentation. M. Sc Thesis. Year of supervision : 2001-2002.
37. Extraction of chitin / chitosan and its application as an antimicrobial agent. Year of supervision : 2001-2002
38. Microbiological and physicochemical aspects of radiation sterilization of various pharmaceutical products. M. Sc Thesis. Year of supervision : 1995-1996
39. Microbial and physico-chemical analyses of Rita (Rita rita) Fish and its Kebab. M. Sc Thesis. Year of supervision : 1994-1995.
40. Sterilization of thymine hydrochloride by radiation : a new approach. M. Sc Thesis. Year of supervision : 1994-1995.
41. Microbiological aspects of spoilage of dried loita fish (*Harpodon neheius*) and their preservation by radiation. M. Sc Thesis. Year of supervision : 1993-1994
42. Production and Purification of alkaline protease from *Bacillus* spp. M. Sc Thesis. Year of supervision : 1993-1994.
43. Isolation, characterization, and evaluation of indigenous baker's yeast. Year of supervision : M. Sc Thesis. Year of supervision : 1989-1990.
44. Microbial production of alcohol from agro-industrial residues by some indigenous yeast isolates. M. Sc Thesis. Year of supervision : 1989-1990

12. Professional presentation :

1. Evolution of *Vibrio Cholerae* 0139 Bengal in Bangladesh, 1993-2006. S.B. Mannan, A. Islam, S.M. Rashed, A. sadique, Fatema-TuzJohura, **Anisur Rahman Khan** A. Siddique, A. Iqbal, S. U. ahmed, R. Bradly Sack, Nur-A Hasan, Anwar Haq, Rita R. Colwell, Alejandro Cravioto and M Alam. The. Annual conference of the Bangladesh Society of Microbiologist, Chittagong, Bangladesh. January, 2012.
2. Bacterial profusion in indian white shrimp *Penaeus indicus* of two different market condtions from Dhaka city , Bangladesh. S. S. Nilla, M. G. Mustafa, M. M. R. Khan and **Anisur Rahman Khan**. The 5th fisheries Conference and Research Fair, Bangladesh, 2012
3. Cloning and expression of a gene encoding solvent resistant and thermostable aminopeptidase. 1999. **Anisur Rahman Khan**, Satoru Nirasawa, Satoshi Kaneko, Tsuyoshi Shimonishi and Kiyoshi Hayashi. **Thirteenth Symposium of the Protein Society**, July 24-27, Boston, USA.
4. Solvent resistant aminopeptidase from the hyperthermophilic bacterium, *Aquifex aeolicus*. **Anisur Rahman Khan**, Satoshi Kaneko, Satoru Nirasawa, Tsuyoshi Shimonishi and Kiyoshi Hayashi. Annual Conference of the **Japan Society of Bioscience, Biotechnology and Agrochemistry**. March 30-April 1, 1999, Fukuoka, Japan.
5. Expression and characterization leucine aminopeptidase from the hyperthermophilic bacterium, *Aquifex aeolicus*. **Anisur Rahman Khan**, Satoshi Kaneko, Satoru Nirasawa, Tsuyoshi Shimonishi and Kiyoshi Hayashi. Annual Conference of the **Molecular Biology Society of Japan**. December 16, 1998, Yokohama, Japan.
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26. Assessment of microbiological quality of fast foods in relation to safety and hygiene. M. Nizam Uddin and **A.R. Khan**. Annual conference of the Bangladesh **Society of Microbiologists**, Dhaka, Bangladesh, May 31, **2002**
27. Extraction of chitin / chitosan from shrimp wastes and application of irradiated chitosan as an anti-bacterial agent. . S. C. Saha, S. M. Asaduzzaman, Abdullah Al Mahin, H. Rashid, and **A. R. Khan**. Dhaka, Bangladesh, **2003**.
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29. Microbiological assessment of locally available fast foods and soft drinks collected from different fast food restaurants. Shurva Kanti Dey and **A.R. Khan**. Annual conference of the Bangladesh **Society of Microbiologists**, Mymensingh, Bangladesh, **2005**
30. Production and comparison of indigenous and commercial baker's yeasts. Nafisa Azmuda, Nasrin Jahan and **A. R. Khan**. Annual conference of the Bangladesh

Society of Microbiologists, Dhaka, Bangladesh, 2006

31. Isolation and identification of indigenous baker's yeast. Nasrin Jahan, Nafisa Azmuda and **A. R. Khan**. Annual conference of the Bangladesh **Society of Microbiologists**, Dhaka, Bangladesh , 2006

13. Country visited : Japan, USA, Germany, Thailand , Singapore, Saudi Arabia.

14. Editor:

Bangladesh Journal of Microbiology (2014-2017)

Dhaka University Journal of Biological Science (2007 -2009)

15. Member of professional societies:

General Secretary, **Bangladesh Society of Microbiologists**. (2016-2017)

General Secretary, **Bangladesh Society of Microbiologists**. (2007-2009)

Join Secretary, **Bangladesh Society of Microbiologists**. (2003-2005)

Life member, **Bangladesh Society of Microbiologists**.

Life Member, **Bangladesh Association for Advancement of Science**.(BAAS)

Life Member, **Japanese University Alumni Association in Bangladesh (JUAAB)**

Life member, **Dhaka University Alumni Association**

Life member, **Dhaka University Microbiology Department Alumni Association**

Member, **Dhaka University Soil Science Student Alumni Association**

Member, **Asiatic Society of Bangladesh**.

Member, **The Protein Society, USA**. 1999-2000

Member, **The Molecular Biology Society of Japan**. 1998-2000

Member, **The Japan Society of Bioscience, Biotechnology and Agrochemistry**,
1998- 2000

Member, **The Japanese Biochemical Society**. 1997-98

Member, **The Society of Fermentation and Bioengineering, Japan**, 1990-1993.

21. Administrative / governing experience:

Chairman : September, 2006 – June, 2009 : Department of Microbiology, University of Dhaka, Dhaka-1000, Bangladesh

Chairman : January, 1997 – March, 1997 : Department of Microbiology, University of Dhaka, Dhaka-1000, Bangladesh

Member of Governing Body (Former), International Medical College, Tongi, Gazipur

Member of Governing Body (Former), Nightingale Medical College, Asulia, Dhaka

Member of Governing Body (Former), Delta Medical College, Dhaka

House Tutor, Shahidullah Hall, University of Dhaka, Dhaka-1000 from 1994 to 1997

House Tutor, Fajlul Haq Muslim Hall, University of Dhaka, Dhaka-1000, from 2001 to 2003

House Tutor, Amar Ekushey Hall, University of Dhaka, Dhaka-1000, from 2003 to 2008