Curriculum Vitae

Khokon Kumar Dutta, Ph.D.
Assistant Professor, Department of Biochemistry and Molecular Biology
Bangabandhu Sheikh Mujibur Rahman Science & Technology University
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Contact Information
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Date of Birth: January 1, 1975
Nationality: Bangladeshi
Place of Birth: Shailkupa, Jhenaidah
Religion: Christian
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Current Position

- **Assistant Professor**
  Department of Biochemistry and Molecular Biology
  Bangabandhu Sheikh Mujibur Rahman Science & Technology University, Gopalganj
  April 22, 2018 – Present

Previous Experience

- **Chairman**
  Department of Biochemistry and Molecular Biology, Bangabandhu Sheikh Mujibur Rahman Science and Technology University,Gopalgonj, Bangladesh
  June 8, 2021 – June 8, 2024

- **Proctor (Assistant)**
  Bangabandhu Sheikh Mujibur Rahman Science and Technology University,Gopalgonj, Bangladesh
  September 2018-March 2020

- **Postdoctoral fellow**
  National Cancer Research Institute,Taiwan (Republic of China)
  September, 2010 -December, 2010

- **Research Associate**
  School of Optometry, Indiana University,
  Bloomington, USA

April 2008 - May 2009

- **Researcher**
  Kyoto University, Kyoto, Japan
  March 2003 to March 2007

- **Teaching Assistant**
  Kyoto University, Kyoto, Japan
  One year

- **Researcher**
  Institute for Virus Research, Kyoto University, Kyoto, Japan
  October 2002 to March 2003

- **Research Assistant, Senior Research Assistant and Research Officer**
  Immunology Laboratory ICDDR, B, Dhaka, Bangladesh
  April 2000-July2002

Educational Qualifications

Ph.D. in Pathology and Biology of Diseases
School of Medicine, Kyoto University, Japan
2003 – 2007

- **Doctoral Dissertation**: Two distinct mechanisms for loss of thioredoxin-binding protein-2 (TBP-2) in oxidative stress-induced renal carcinogenesis.
- Supervisor: Shinya Toyokuni, MD, PhD

M.Sc. in Biochemistry and Molecular Biology
University of Dhaka, Bangladesh
July 1998 – June 2000

- First Class (66%)
- **Thesis**: Involvement of different inflammatory cells at the mucosa surface in diarrhea caused by Vibrio cholera and enterotoxigenic Escherichia coli.
- **Supervisor**: Firdausi Qadri, PhD (ICDDR, B)

B.Sc. (Honors) in Biochemistry and Molecular Biology
University of Dhaka, Bangladesh
June 1994 – May 1998

- First Class (69%)

Higher Secondary Certificate (H.S.C.)
Dhaka College, Dhaka, Bangladesh
1991-1993

- First Division (80.4%)

Secondary School Certificate (S.S.C.)
Shailkupa Pilot High School, Shailkupa, Jhenaidah, Bangladesh
1991

- First Division (79.1%)

Publications

1. **Dutta KK** 2024. Unveiling the intriguing role of nuclear microRNA-34a: A journey from discovery to functional exploration. Journal of Bioscience and Environment Research, 1(2): 1-3.
2. Esita Halder, Nidhan Chandra Paul, Probir Kumar Banjerjee, Md. Tofazzal Hossain, Md. Jinnat Hossain, Qazi Rabiul Islam, **Khokon Kumar Dutta**. Circulating Non-Esterified Free Fatty Acids in Bangladeshi Patients with Type-2 Diabetes: A Cross-Sectional Analysis. International Journal of Health Sciences and Research. 2024 August; 14: 364-380
3. Nidhan Chandra Paul, Probir Kumar Banjerjee, Md. Jinnat Hossain, Qazi Rabiul Islam, **Khokon Kumar Dutta**.Prevalence of Hyperlipidemia in Newly Diagnosed and Uncontrolled Type-2 Diabetes Mellitus Patients Comparative to Non-diabetic Individuals. International Journal of Health Sciences and Research. 2023 June; 13: 203-218.
4. Mohammad Asaduzzaman, AsminiShobnam, Md. Farukuzzaman, Abdul Gaffar, Farha Matin Juliana, Tanima Sharker, **Khokon Kumar Dutta**, Mohammod Johirul Islam. Assessment of Red Blood Cell Indices, White Blood Cells, Platelet Indices and Procalcitonin of Chronic Kidney Disease Patients under Hemodialysis. International Journal of Health Sciences and Research. 2018 August; 8: 98-109.
5. Mohammad Asaduzzaman, Md. Mahbub Ullah, Sayed Md. Redwan, Md. Jahangir Alam, Farha Matin Juliana, Nazmul Hossain, Biswajit Das, Runa Asma, Manoj Mandal and **Khokon Kumar Dutta**. Emergence of Meropenem Resistance in Pathogens Recovered From Urine Cultures in Bangladesh. Journal of Pharmacy and Biological Sciences. 2018 May-June; 13: 41-47.
6. **K. K. Dutta**,S. J. Shivakumar, T. Nguyen,C. Liu, E. Vithana,J. A. Bonanno. Cloning and Characterization of the Borate Transporter SLC4A11in Bovine Corneal Endothelial Cells.Investigative Opthalmology& Visual Sciences. 2009 April; 50: 1797
7. S. S. Jalimarada; **K. K. Dutta**; E. N. Vithana; J. A. Bonanno. Expression of the

Borate Transporter NaBC1 (SLC4A11) in Bovine Corneal Endothelial Cells (BCEC). Investigative Opthalmology& Visual Sciences.2009 April; 50: 1801.

8. C Liu, M Calvin, K Dutta, J Bonanno. SOD2 Gene Expression and SiRNA Knockdown in Rabbit Corneal Endothelial Cells. Investigative Opthalmology& Visual Sciences.2009 April; 50: 1825.
9. **Dutta KK**, Zhong Y, Liu YT, Yamada T, Akatsuka S, Hu Q, Yoshihara M, Ohara H, Takehashi M, Shinohara T, Masutani H, Onuki J, Toyokuni S. Association of microRNA-34a overexpression withproliferation is cell type-dependent. Cancer Science. 2007 Dec; 98(12):1845-52.
10. Liu YT, Shang D, Akatsuka S, Ohara H, **Dutta KK**, Mizushima K, Naito Y, Yoshikawa T, Izumiya M, Abe K, Nakagama H, Noguchi N, Toyokuni S. Chronic oxidative stress causes amplification andoverexpression of ptprz1 protein tyrosine phosphatase to activate beta-catenin pathway. American Journal of Pathology. 2007 Dec;171(6):1978-88.
11. Shinya Toyokuni, **K. K. Dutta**. Shinya Akatsuka. Novel approach for elucidation of iron-inducedcarcinogenesis: Oxygenomics and micro-RNA. American Journal of Hematology. 2007 June; 82(6): 512
12. Janice Onuki , Yu-Ting Liu, Wen-Hua Lee , Li Jiang, **Khokon K Dutta**, Yi Zhong, Shinya Akatsuka,Shinya Toyokuni. ANALYSIS OF TARGET GENES ON CHROMOSOME 8 IN Fe-NTA- INDUCED RAT RENAL CELL CARCINOMA. International Union of Biochemistry and Molecular Biology.2007
13. Li Jiang 1 , Yi Zhong, Shinya Akatsuka, Yu-Ting Liu, **Khokon Kumar Dutta**, Wen-Hua Lee, JaniceOnuki, Ken-ichiMasumura, Takehiko Nohmi, Shinya Toyokuni. Deletion and single nucleotide substitution at G:C in the kidney of gpt delta transgenic mice after ferric nitrilotriacetate treatment. Cancer Science. 2006 Nov; 97(11):1159-67
14. Akatsuka S, Aung TT, **Dutta KK**, Jiang L, Lee WH, Liu YT, Onuki J, Shirase T, Yamasaki K, OchiH, Naito Y, Yoshikawa T, Kasai H, Tominaga Y, Sakumi K, Nakabeppu Y, Kawai Y, Uchida K, Yamasaki A, Tsuruyama T, Yamada Y, Toyokuni S. Contrasting genome-wide distribution of 8-hydroxyguanine and acrolein-modified adenine during oxidative stressinduced renal carcinogenesis.American Journal of Pathology. 2006 Oct;169(4):1328-42.
15. Lee WH, Akatsuka S, Shirase T, **Dutta KK**, Jiang L, Liu YT, Onuki J, Yamada Y, Okawa K, WadaY, Watanabe A, Kohro T, Noguchi N, Toyokuni S. Alpha-tocopherol induces calnexin in renal tubular cells: another protective mechanism against free radical-induced cellular damage. Arch BiochemBiophys. 2006 Sep 15;453(2):168-78.
16. Distribution of oxidative DNA lesions across the entire genome. International Congress ofBiochemistry and Molecular Biology and FAOBMB Congress. 2006
17. Involvement of aminoacylase 1 in ferric nitrilotriacetate (Fe-NTA)- induced rat renal cell carcinoma
18. **Dutta KK**, Nishinaka Y, Masutani H, Akatsuka S, Aung TT, Shirase T, Lee WH, Yamada Y, Hiai H,Yodoi J, Toyokuni S. Two distinct mechanisms for loss of thioredoxin-binding protein-2 in oxidative stress-induced renal

carcinogenesis. Lab Invest. 2005 Jun;85(6):798-807.
19. Characteristics of Oxidative Damage Localization in the Genome DNA. HUGO. 2005.
20. Shinya Toyokuni, Shinya Akatsuka, T T Aung, **K K Dutta**. Free radicalinduced carcinogenesis:Target genes and fragile genome sites. Free Radical Research. 2005
21. Qadri F, Bhuiyan TR, **Dutta KK**, Raqib R, Alam MS, Alam NH, Svennerholm AM, Mathan MM. Acute dehydrating disease caused by Vibrio cholerae serogroups O1 and O139 induce increases in innate cells and inflammatory mediators at the mucosal surface of the gut. Gut. 2004 Jan;53(1):62-9.
22. Toyokuni S and **Dutta K K**. Rattus norvegicus vdup1 gene, 5'UTR, strain: Wistar/Fischer-344.Genbank. 2004 August.
23. Shinya Toyokuni and **K K Dutta**. Rattus norvegicus vdup1 gene, 5'UTR, strain: Brown-Norway.Genbank. 2004 August.
24. Firdausi Qadri, Tanvir Ahmed, Firoz Ahmed, R. Bradley Sack, David A. Sack, Ann Mari Svennerholm, Yasmin Ara Begum, Nargis Akter, Khuzista Akhter, Perveen Begum, Razia Begum,Taufiqur Rahman, **Khokon Kumar Dutta**, Delowar Hossain, Prodip Chandra Das, Lutfur Rahman. Safety and immunogenicity of an oral, inactivated enterotoxigenic Escherichia coli plus cholera toxin B subunit vaccine in Bangladeshi children 18-36 months of age. Vaccine. 2003 June; 21: 2394-2403.

Research Interests

- Diabetes

Professional References

- **Prof. Shinya Toyokuni, MD, Ph.D.**
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- **Dr. Firdausi Qadri, Ph.D.**
  Senior Scientist & Head, Mucosal Immunology & Vaccinology
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