

## **Md. Hafizur Rahman, PhD**

Research Officer

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**Date of birth** : January 02, 1974  
**Place of birth** : Bangladesh  
**Nationality** : Bangladeshi  
**Sex** : Male  
**Marital status** : Married (one child)

### **Permanent Address**

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### **EDUCATION:**

<b>Degree</b>	<b>Year</b>	<b>Subject</b>	<b>Institution</b>
PhD	2005	Molecular Genetics	Kumamoto University, Japan
MSc	1995	Biochemistry	University of Dhaka, Bangladesh
BSc	1994	Biochemistry	University of Dhaka, Bangladesh

### **AWARDS**

- 2000-2005: Monbusho Fellowship, Ministry of Education, Culture, Sports, Science and Technology, Japan.
- 1999-2000: National Science and Technology Fellowship, Ministry of Science and Information & Communication Technology, Bangladesh.

### **APPOINTMENTS/WORK EXPERIENCES**

<b>Date</b>	<b>Position</b>	<b>Organization/ Institution</b>
8/08 - present	Research Officer	PCMD, ICCBS, University of Karachi, Pakistan.
11/07 – 7/08	Postdoctoral Fellow	PCMD, ICCBS, University of Karachi, Pakistan.
3/07 – 11/07	Visiting Professor (HEC)	PCMD, ICCBS, University of Karachi, Pakistan.
4/05 – 3/07	Postdoctoral Fellow	Bangladesh Institute of Research and Rehabilitation in Diabetes, Endocrine and Metabolic Disorders (BIRDEM), Dhaka, Bangladesh.
10/00 – 3/05	PhD Fellow	Department of Molecular Genetics, Kumamoto University, Japan.
7/00 – 9/00	Scientific Officer	BIRDEM, Dhaka, Bangladesh.
3/97 – 6/00	Research Fellow	BIRDEM, Dhaka, Bangladesh.

## TEACHING EXPERIENCE

- June 2007- to date: Teaching Molecular Medicine course for the MPhil/PhD students at PCMD, ICCBS, University of Karachi, Pakistan.
- Jan- Dec, 2006: Taught Biotechnology in Master of Science (MS) course (36 hours of lectures), North South University, Dhaka, Bangladesh

## TECHNICAL EXPERTISE

- PCR, DNA Cloning, DNA Sequencing, Northern Blotting
- SDS-PAGE, Western Blotting and ELISA
- Cell culture, transfection and transformation, recombinant plasmid preparations
- Expression and purification of recombinant proteins
- Histology, immunohistochemistry and multi-channel fluorescence microscopy
- Fluorescence spectrophotometry, luminometry and aggregometry
- Familiar with different enzyme activity assay, biochemical parameter assay
- Experience in animal handling and making different rat model of diabetes

## PUBLICATIONS

1. Abdul KM, Terada K, Gotoh T, **Hafizur RM**, and Mori M (2002) Characterization and functional analysis of a heart-enriched DnaJ/Hsp40 homolog dj4/DjA4. *Cell Stress Chaperones* 7, 156-166
2. Fatema K, Ali L, **Rahman MH**, Parvin S, and Hassan Z (2003) Serum glucose and insulin response to mango and papaya in type 2 diabetic subjects. *Nutrition Research* 23, 9-14
3. **Hafizur RM**, Yano M, Gotoh T, Mori M, and Terada K (2004) Modulation of Chaperone Activities of Hsp70 and Hsp70-2 by a Mammalian DnaJ/Hsp40 Homolog, DjA4. **J. Biochem.** 135, 193-200
4. Ali ME, Ahmed MU, Alam S, and **Rahman MH** (2008) HLA-A, -B and -DRB1 allele frequencies in the Bangladeshi population. *Tissue Antigens* 72, 115-119
5. Rahman MH, **Hafizur RM**, Nahar Q, Khan AR, Ali L (in press) Insulin secretion and sensitivity in Bangladeshi prediabetic subjects. *J Diabetes Complications* ( doi:10.1016/j.jdiacomp.2008.09.003)
6. **Hafizur RM**, Kabir N, Chishti S, Mosihuzzaman M, and M. Iqbal Choudhary. Modulation of pancreatic  $\beta$ -cells in neonatally streptozotocin-induced type 2 diabetic rats by ethanolic extract of *Momordica charantia* fruit pulp (submitted)

## SELECTED POSTERS/ORAL PRESENTATIONS IN SEMINARS/SYMPOSIA

1. **Md. Hafizur Rahman**. Immunohistochemical studies on pancreatic  $\beta$ -cells in streptozotocin-induced type 2 diabetic rats treated with *Momordica charantia* extract. The 2nd International Symposium-cum-Training Course on Molecular Medicine and Drug Research, January 12-15, 2009, ICCBS, Karachi University, **Pakistan**.
2. **Md. Hafizur Rahman**, Nurul Kabir, Sidra Chishti and Mohammed Mosihuzzaman. Immunohistochemical characterization of pancreatic islets in streptozotocin-induced diabetic Wistar rat. The 11th International Symposium on Natural Product Chemistry, October 29 – November 1, 2008, ICCBS, Karachi University, **Pakistan**.
3. **Md. Hafizur Rahman**, Kazutoyo Terada. Chaperone function of a newly found DnaJ/Hsp40 homolog, DjA4. The 10th Annual General Meeting of Bangladesh Society for Biochemistry & Molecular Biology, July 29, 2006, Dhaka, **Bangladesh**.
4. **Md. Hafizur Rahman**. Heat Shock Proteins and Diabetes Mellitus (Invited Lecture). The 11th Diabetes and Endocrine Conference, March 2-4, 2006, Dhaka, **Bangladesh**.

5. **Hafizur RM**, Rahman MH, Huq F, Khan AR, Ali L. Insulin secretion and insulin sensitivity in subjects with impaired glucose regulation. The 37th Annual General Meeting of the Clinical Biochemists Association of India, December 18-21, 2005, Patna, **India**.
6. **Hafizur RM**, Yano M, Gotoh T, Mori M, and Terada K. Regulation of Hsp70 and Hsp70-2 activities by a new mammalian DnaJ/Hsp40 homolog, DjA4. The Kyushu Regional Scientific Meeting of the Japanese Biochemical Society, May 29-30, 2004, Kumamoto, **Japan**.
7. **Hafizur RM**, Gotoh T, Yano M, Mori M, and Terada K. Modulation of chaperone activities of Hsp70 and Hsp70-2 by a mammalian DnaJ/Hsp40 homolog, DjA4. The 76th Annual Meeting of the Japanese Biochemical Society, October 15-18, 2003, Tokyo, **Japan**.
8. **Rahman MH**, Fatema K, Parvin S, Hassan Z, Ahmed S, Mondal HN and Ali L. Glycemic and insulinemic index of mango and papaya in type 2 diabetic subjects. The 35th Annual Meeting of the EASD, September 28-October 2, 1999, Brussels, **Belgium**.
9. **Rahman MH**, Zinnat R, Mahmud I and Ali L. Pathogenesis of platelet hyperaggregability in diabetes mellitus. The 4th Diabetes and Endocrine Conference, December 12-13, 1998, Dhaka, **Bangladesh**.

## PROFESSIONAL AFFILIATION

1. Member, European Association for the Study of Diabetes (EASD 990557).
2. Member, Asian Network of Research on Anti-diabetic Plants (ANRAP).
3. Member, Japanese Universities Alumni Association in Bangladesh (JUAAB).
4. Member, Graduate Biochemist Association, Bangladesh (01L/94).
5. Member, Diabetes and Endocrine Society of Bangladesh.

## REFEREES

### **Professor Dr. M. Iqbal Choudhary**

Co-Director

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### **Masataka Mori**, MD, PhD

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### **Professor Liaquat Ali**

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And, Professor, Cell Biology

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