

ZAKI FARHAD HABIB

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1. TEACHING EXPERIENCE

Faculty Advisor **October 2015-present**
North South University Pharmaceutical Club

Lecturer **January 2015-present**
Department of Pharmaceutical Sciences, North South University

- Courses that I teach: Human Physiology-I (including Lab), Pharmaceutical Engineering-I, Communications and Computer Applications in Pharmaceutical Sciences, Pharmacognosy Lab, Physical Pharmacy-I Lab.
- Number of research students supervised so far: 02

Medical Science Teaching **April 2014-June 2014**
University of Oxford

- Taught and quizzed Rat Blood Pressure practical to First year Medical students of the University of Oxford.
- Prepared Rat for the experiment (Anesthetized, cannulated jugular vein and carotid artery, performed tracheotomy) and lectured on Blood Pressure and related topics.

Undergraduate Teaching Assistant **Jan 2012-Dec 2012**
North South University

- Worked directly under the guidance of a Faculty member. Assisted and tutored individual/group of students in performing activities initiated by the faculty. Prepared course material and examination papers for faculty. Graded MCQ quiz papers and submitted the grades online. Invigilated examination halls. Assisted the faculty by facilitating personal care for students when necessary.

2. EDUCATION

MSc Pharmacology, **68.4%** **2013-2014**
University of Oxford

Bachelor (hons) of Pharmacy, **CGPA 3.71** **2009-2012**
North South University

The Aga Khan School, Dhaka **2004-2008**
4 A Levels in Further Pure Maths(A), Chemistry(A), Biology(A), Physics(A)
8 O Levels (result: all A; distinction in Mathematics B)

3. AWARDS

Merit based Scholarship, North South University (NSU)	2009-2012
(100% Tuition Waiver for full 4 year Bachelor's (Hons.) degree; stood 6 th in admission exam)	
Daily Star Awards for Outstanding A Levels results	2008
Daily Star Awards for Outstanding GCE O Levels results	2006
The Aga Khan School Scholarship	2004-2008

4. RESEARCH EXPERIENCE AND SKILLS

Master of Science Degree Research **April 2014-September 2014**

Cardiac Signalling Lab, University of Oxford

(Hold a personal license (PIL 30/10723) under Home Office)

- Project title: **Characterization of mouse model with cardiac myocyte specific deletion of p21-activated kinase 2 (Pak2).**
- Performed genotyping using ear clippings from mouse; isolated DNA via chemical method, analyzed sample using gel electrophoresis after performing **PCR**.
- Set up **Langendorff isolated heart perfusion system** (surgically removed the heart from the mouse and cannulated the aorta) and measured **monophasic action potential** in Krebs buffer alone and with Isoprenaline. Investigated the susceptibility of Pak2 knockout mice to arrhythmias (burst pacing using electrodes), change in 2:1 conduction block and refractory period. Surgically introduced isoprenaline mini-pump (fixed dose for 5 days) used to determine isoprenaline stress response comparison between Pak2 knockout and control wild type mice.
- Froze whole heart in OCT and using temperature controlled microtome machine, cut thin slices of heart tissue. **Immunostaining** and **Masson's trichrome staining** performed on the tissue slices and observed under a fluorescent microscope to detect presence of hypertrophy and the overall morphology of the tissue.

Bachelor's (hons) Degree Final Year Research **2012-2013**

Cell Biology and Molecular Biology Lab, North South University

- Project title: **Antibiotic activity, susceptibility and carcinogenic Chromium reduction pattern in Actinomycetes bacteria.**
- Formed and maintained purified bacterial cell culture; assessed antibiotic susceptibility via disc diffusion method; measured Chromium reduction using UV-Visible Spectrophotometry; performed DNA isolation using QIAamp DNA Kit and Phenol-Chloroform chemical isolation technique; analysed isolated DNA fragments using Gel Electrophoresis.

Additional Supervised Research **2012-2013**

Pharmacology and Clinical Pharmacy Lab, North South University

- Project title: **Anti-hyperglycemic and Analgesic effects of Achyranthes aspera (Apang) plant hydro-alcoholic extract.**
- Extracted sample plant leaves (using rotary evaporator); performed analgesic tests on laboratory mice (Hot-plate test and Acetic acid writhing test); performed anti-diabetic tests on Long-Evans rats (Six segments of the gut, GI motility and Gut perfusion test); gained extensive experience in handling, feeding and surgically operating on laboratory mice and rats.

5. ADDITIONAL SKILLS

- **Leadership:** President of North South University Pharmacy Club (Sep 2012-Feb 2013); Vice-President of Oxford University Bangladesh Society (Dec 2013-December 2014)
- **Microsoft Office:** avid user of MS Word (thesis and publications), MS PowerPoint (project presentations), MS Excel (data analysis)
- **Adobe Illustrator and Photoshop:** Magazine designing. Worked as the Chief Editor of North South University Pharma Exhibition 2012 magazine.
- **Spike2 software (CED):** to analyze and record monophasic action potential data
- **Chart5 Pro software:** to analyze and record ECG data

6. MEMBERSHIP OF PROFESSIONAL SOCIETIES

Pharmacy Council of Bangladesh (A-grade Pharmacist: Reg. no. A-9292)	2015-present
British Pharmacological Society (Early Career)	2013-present
The Oxford Union (Life Member)	2013-present
Bangladesh Pharmaceutical Society	2013-present

7. REFEREES

Dr. Ming Lei

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Signalling Group
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8. PUBLICATION

Shohel M, Islam S, Wadud R, **Habib ZF**, Malik F, Kabir S and Reza HM. 2013 Journal of Applied Pharmaceutical Science, Management of Benzodiazepine Dependence and Toxicity, 3 (06): 146-151. Available online at <http://www.japsonline.com>