


Amin Shakhawat, Ph.D.

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RELEVANT SKILLS

Communication

- Two awards as an outstanding PhD student presenter
- Research results presentation at internationally reputed institutes and scientific meetings
- PhD and MSc thesis and regular lab reports writing
- Discussing and presenting at regular lab journal club
- Published 4 scientific first author papers in high-quality peer-reviewed journals
- Second author of a book chapter
- Guest lectures at undergraduate and graduate level
- Teaching assistant for neuroanatomy practical lab for medical students

Interpersonal Skills

- Collaborating with lab colleagues and exchange research ideas with peers on a regular basis
- Assist undergraduate, and PhD students and visiting scholars to conduct research efficiently
- Team member of tech transfer team that facilitate establishment of standalone production facility of insulin injection in Bangladesh after taking training from a Chinese and an Indian biotech company
- Established an entire analytical method development department

Critical Thinking

- Introduce a very novel and completely new complex molecular technique called Arc catFISH in my PhD lab with a minimum supervision
- Wrote scientific papers and posters, submit grants
- Develop analytical method to test pharmaceutical active ingredients and products
- Design experiment, analyze data and present in broad lay and expert audience

Project Management

- First time introduction of insulin injection products in Bangladesh market from top two Bangladeshi pharmaceutical companies
- Launched around 50 finished pharmaceuticals products
- Introduce completely new molecular and behavioural technique in PhD lab
- Work as a Research Assistant and maintain big animal colony and overall lab activities.
- Manage and direct different scientific research projects (post-doc and PhD) within specific time frame

PROFESSIONAL EXPERIENCE

Dec 2007-Aug 2010

Senior Executive

Analytical Research and Development Dept.

Square Pharmaceuticals Ltd. Dhaka, Bangladesh

- Set-up of the Analytical Method Development team
- Oversee Analytical method development and validation activities
- Lead Analytical Method Transfer Team
- Plan, write and executes validation protocols
- QC documentation lead for FDA, MHRA, TGA

Dec 2003-Dec 2007

Officer

Analytical Research and Development Dept.

Incepta Pharmaceuticals Ltd. Dhaka, Bangladesh

- Analytical method development- active pharmaceutical ingredient and drug product
- Stability testing
- Cleaning validation
- Regulatory documentation for international marketing
- Technology transfer team member

EDUCATION





Oct-2015- Present **Post-Doctoral fellow**
Neurobiology; Dr. Jennifer Raymond Lab
Stanford University, CA, USA

Feb – 2016 **Doctor of Philosophy in MEDICINE (Neuroscience) with Distinction**
Faculty of Medicine; Dr. Qi Yuan Lab
Memorial University of Newfoundland
St. John's, Newfoundland, Canada

Dec – 2003 **Master of Science in ORGANIC CHEMISTRY**
Position: *First class (1st)*
Shahjalal University of Science and Technology
Sylhet, Bangladesh

Jan – 2002 **Bachelor of Science (Honors) in CHEMISTRY**
Position: *First class (6th)*
Shahjalal University of Science and Technology
Sylhet, Bangladesh

PUBLICATIONS

-  **Shakhawat et al;** J. Neurosci. 2015; 35 (41): 14070-14075 (*Featured Article*)
-  **Shakhawat et al;** J. Neurosci. 2014; 34 (46): 15394-15401
-  **Shakhawat et al;** J. Neurosci. 2014; 34 (31): 10206-10210 (*Featured Article*)
-  **Shakhawat et al;** Learn. Mem. 2012; 19: 499-502

BOOK CHAPTER

- Qi Yuan, **Amin MD. Shakhawat** & Carolyn W. Harley (2014). Mechanisms underlying early odor preference learning in rats. **Progress in Brain Research: Vol. 208, Odor Memory and Perception.**

TECHNICAL SKILLS

Analytical Biochemistry	Analytical Method development and validation, cleaning validation, Different types of pharmaceutical drugs estimation, protein estimation, thin layer chromatography, Bioequivalence Dissolution testing, Wet chemistry, stability testing
Instrumentation	UV-VISIBLE spectroscopy, HPLC, atomic absorption spectrophotometer, colorimeter, Gas Chromatography, FT-IR spectroscopy
Optics	Confocal microscopy
Molecular Biology	Plasmid DNA isolation, RNA extraction, cryostat sectioning, restriction digestion, <i>Arc</i> mRNA probe collection, <i>Arc</i> catfish techniques, in-situ hybridization, different antibody-antigen reactions, immunohistochemistry
Software	Image J, Origin 8.5, CorelDraw, Fluoview Olympus, ChemDraw, Microsoft Office, Matlab, Spike2
Surgery	Stereotaxic small animal surgery, (neonatal, juvenile, and adult), Magnet implantation in eye
Behavioral Training and Animal Handling	Sprague Dawley rat model, olfactometer training model, electric shock training model, transgenic mouse model, Vestibular Ocular reflex
Staining Techniques	DAB staining, NISSL staining, fluorescence staining, double fluorescence staining

PROFESSIONAL MEMBERSHIPS

- 2014-2016** Society for Neuroscience, USA
2011-2011 Canadian Association for Neuroscience

AWARDS

- 2016** **Fellow of the School of Graduate Studies,** Memorial University of Newfoundland, St. John's, Newfoundland, Canada
- 2015** **Golden Synapse Award Outstanding PhD Student Presentation** Memorial University of Newfoundland, St. John's, Newfoundland, Canada
- 2014** **Graduate Chapter Travel Award** Society for Neuroscience, Washington, DC, USA
- 2014** **R and D Systems Travel Award** Society for Neuroscience, Washington, DC, USA
- 2014** **Golden Synapse Award Outstanding PhD Student Presentation** Memorial University of Newfoundland, St. John's, Newfoundland, Canada
- 2013** **Golden Synapse Cover Art Award** Memorial University of Newfoundland, St. John's, Newfoundland, Canada

FELLOWSHIPS

- Sep 2010 – Dec 2015** **Graduate Fellowship** Memorial University of Newfoundland, St. John's, Newfoundland, Canada
- Sep 2010 – Sep 2012** **Dean's Fellowship** Memorial University of Newfoundland, St. John's, Newfoundland, Canada
- 2002** **University Grand Commission Scholarship,** Shahjalal University of Science and Technology, Sylhet, Bangladesh

PART TIME JOB EXPERIENCE

- 2013 –2015** **Research Assistant** Dr. Qi Yuan lab Faculty of Medicine Memorial University of Newfoundland, St. John's, Newfoundland, Canada
- 2013 –2015** **Research Assistant** Employment Equity Human Resource Department Memorial University of Newfoundland, St. John's, Newfoundland, Canada

TEACHING EXPERIENCE

- 2012 –2014** **Teaching Assistant** (MED6197; ISDII; Phase II; MED310A) Memorial University of Newfoundland, St. John's, Newfoundland, Canada

POSTER PRESENTATION

- 2015** **Shakhawat *et al*** - *Noradrenergic Blockade in the Olfactory Bulb or Anterior Piriform Cortex Leads to Impaired Odor Discrimination and Odor Representation in Rats*. Society for Neuroscience Meeting Chicago, DC, USA
- 2015** **Shakhawat and Yuan** - *Stability and pattern separation plasticity underlie noradrenergic-dependent odor discrimination learning in adult rats*. BioMedicine 2015 Research Symposium Memorial University of Newfoundland, St. John's, Newfoundland, Canada
- 2014** **Shakhawat *et al*** - *Arc catFISH visualization of pyramidal cell ensembles in the anterior piriform cortex following odor discrimination learning*. Society for Neuroscience meeting, Washington, DC, USA
- 2014** **Shakhawat *et al*** - *Arc catfish visualization of odor engram in the rat pup*. Society for Neuroscience meeting, Washington, DC, USA
- 2013** **Shakhawat *et al*** - *Arc catfish visualization of neuronal ensemble changes in the piriform cortex following odor discrimination learning in rats*. Canadian Association for Neuroscience meeting, Toronto, Ontario, Canada
- 2012** **Shakhawat *et al*** - *α 2-adrenoceptor mediates a cAMP-independent signaling during early odor preference learning in rats*. Canadian Association for Neuroscience meeting, Vancouver, British Columbia, Canada

GUEST LECTURE

- 2015** **“Molecular Anatomy of Olfactory Memory”**
Dr. Jennifer Raymond lab
Stanford University School of Medicine,
California, USA
- 2015** **“Synaptic Plasticity”**
MED6197 (Graduate Course-Class of 2015)
Memorial University of Newfoundland,
St. John's, Newfoundland, Canada
- 2015** **“Neurotransmitter Systems”**
Psyc-3800 (Undergrad Course-Class of 2015)
Memorial University of Newfoundland,
St. John's, Newfoundland, Canada
- 2015** **“Network Plasticity-The Amazing Plastic Brain”**
Psyc-3800 (Undergrad Course-Class of 2015)
Memorial University of Newfoundland,
St. John's, Newfoundland, Canada
- 2015** **“Stability and plasticity of brain representations: Insights from olfactory learning in rats”**
Psychology Colloquium series
Memorial University of Newfoundland,
St. John's, Newfoundland, Canada

CERTIFIED TRAINING

- 2015** **Professional Skill Development Program**
Career Development and Experiential Learning,
Memorial University of Newfoundland,
St. John's, Newfoundland, Canada
- 2015** **Teaching Skills Enhancement Program**
Faculty of Education
Memorial University of Newfoundland,
St. John's, Newfoundland, Canada
- Oct 2008** **Technology Transfer** (Human insulin injection)
Dong Bao Biopharmaceuticals, Dong Bao, China
- Oct 2006** **Technology Transfer** (Human insulin injection)
Biocon Pharmaceuticals, Bangalore, India
- Dec 2009** **“Current Good Manufacturing Practice, Aseptic Processing-Current Good Manufacturing Practice and Quality Systems Approach to Pharmaceutical GMP Regulations”** held in Dhaka, conducted by Chrai associates. USA.
Training Coordinator: Suggy S Chrai.
- Dec 2009** **“Validation-An FDA perspective and Validation: Basic Concepts and Strategies”** held in Dhaka, conducted by Chrai associates. USA. Training Coordinator: Suggy S Chrai.
- Dec 2004** **“Department and People development”** held in Dhaka, conducted by Asia Pacific Consultants Pty Ltd. Australia.
Training Coordinator: Wayne Mc Kenzie.

LANGUAGE

- Bangla** Native
- English** Professional
- Hindi** Listening and speaking
- Arabic** Reading and Listening

VOLUNTEERISM

- 2012-2014** **Brain Storm Competition**
Memorial University of Newfoundland,
St. John's, Newfoundland, Canada
- 2015** **Farmers Market,**
St. John's, NL, Canada

PERSONAL INTEREST

