

DR MD ROKIBUL ISLAM

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Department of Biotechnology and Genetic Engineering, 3rd floor (R-333), Faculty of Biological Sciences, Islamic University, Kushtia-7003, Republic of Bangladesh

EDUCATION

- **Hallym University and National Research Foundation of Korea** **2020-Cnt.**
 - **Postdoctoral Research**, Korean research Fellowship Program (**KRF**) & National Research Foundation Brain Pool Program (**NRF, BP**)
- **Hallym University**, Chuncheon-si, Republic of Korea **2014-2018**
 - PhD, Graduate school, College of Medicine, Department of Biochemistry
 - Dissertation (2018-06-30): RhoA GTPase induces phosphorylation of pyruvate dehydrogenase E1 α (p-PDHA1), forming a complex with pyruvate kinase M2 (PKM2) in response to insulin
 - Graduation (2018-08-29): Medical Science (Major in Biochemistry)
- **Islamic University**, Kushtia-7003, Republic of Bangladesh
 - M.Sc.; Biotechnology and Genetic Engineering (First Class) **2005**
 - B.Sc.; Biotechnology and Genetic Engineering (First Class) **2020-2004**

PUBLICATIONS

Article:

- **Rokibul Islam.**, Abu Jubayer Hossain., Jae-Gyu Kim., Seung Jae Hyeon., Hoon Ryu and Jae-Bong Park., (2020) Complex of phosphorylated pyruvate dehydrogenase and pyruvate kinase M2 regulate LINC273 transcription in HepG2 cell upon insulin {*Manuscript In Review: Cancer Research (CAN-20-0090)*}
- Kim Cuong Cap, Yeon-Joo Jung, Bo Young Choi, Hyeon Seung Jae, Jae-Gyu Kim, Jung-Ki Min, **Rokibul Islam**, Abu Jubayer Hossain, Won-Suk Chung, Sang Won Suh and Jae-Bong Park (2020) Distinct dual roles of p-Tyr42 RhoA GTPase in Tau phosphorylation and ATP citrate lyase activation upon different A β concentrations. *Redox Biology*, doi: <https://doi.org/10.1016/j.redox.2020.101446>. (**IF: 9.98**)
- **Rokibul Islam**, Jae-Gyu Kim, Yohan Park, Jung-Yoon Cho, Kim-Cuong Cap, A-Ra Kho, Won-Suk Chung, Sang-Won Suh, and Jae-Bong Park (2019) Insulin induces phosphorylation of pyruvate dehydrogenase through RhoA activation pathway in HepG2 cells. *FASEB J. Feb;33(2):2072-2083*. (**IF: 5.59**)
- M.R Karim, D.K Ghose, M.F Rahman, M.T Hossain, M R Rahman , M.A Rahman and **R. Islam** (2020). Evidence of health complications caused by mosquito coil smoke inhalation in mouse model. *J Adv Biotechnol Exp Ther.* 2020; 3(2): 122-127 (**Scopus Indexed**)
- Md Rezaul Karim, Md Foyzur Rahman, Md Rezanur Rahman, Zinat Tamannaa, Dipayon Krisna, Md Ghose, Nurul Islam, Md Tofazzal Hossain, **Rokibul Islam**, Md Aatur Rahman 2020. Hypoglycemic and antidyslipidemic potential of *Pleurotus ostreatus* in streptozotocin-induced diabetic rats *J Adv Biotechnol Exp Ther.* 2020; 3(1): 49-55 (**Scopus Indexed**)
- M.Z Abedin, L. Jarin, M.A Rahman and **R. Islam** (2020). Culture positivism exploitation through automated fluorescent sensor technology from patients with blood stream infections. *J Adv Biotechnol Exp Ther.* 2020; 3(3): 165-170 (**Scopus Indexed**)

Review:

- Kim, Jae-Gyu; **Islam, Rokibul**; Cap, Coung; Hossain, Abu Jubayer; Lee, Yoon-Burm; Dogsom, Oyungerel; Hamza, Amir; Mahmud, Shohel; Min, Jung-Ki; Choi, Dae Ro; Koh, Young-Ho; Kim, Hyun-A; Chung, Won-Suk; Suh, Sang won (2021). "Multiple Functions of Pyruvate Kinase M2 (PKM2) in Different Types of Cells" {*Manuscript In Review: Journal of Cellular Physiology (JCP-20-4651)*}
- Md. Aatur Rahman; Md Abdul Hannan; Raju Dash; MD. Hasanur Rahman; **Rokibul Islam**; Md. Jamal Uddin; Abdullah A. Sohag; Md. Habibur Rahman; & Hyewhon Rhim (2021). "Phytochemicals as a Complement to Cancer Chemotherapy: Pharmacological Modulation of Autophagy-apoptosis Pathway" {*Manuscript accepted: Frontiers in Pharmacology(ID:639623)*} (**IF: 4.53**)
- Rahman, Md. A.; Rahman, MD. H.; Biswas, Partha; Hossain, Md. S.; **Islam, Rokibul**; Hannan, Md. A.; Uddin, Md J.; Rhim, Hyewhon. 2021. "Potential Therapeutic Role of Phytochemicals to Mitigate Mitochondrial Dysfunctions in Alzheimer's Disease" *Antioxidants* 10, no. 1: 23 (**IF: 5.01**)
- Rahman, Md. A.; Rahman, MD. H.; Hossain, Md. S.; Biswas, Partha; **Islam, Rokibul**; Uddin, Md J.; Rahman, Md. H.; Rhim, Hyewhon. 2020. "Molecular Insights into the Multifunctional Role of Natural Compounds: Autophagy Modulation and Cancer Prevention" *Biomedicines* 8, no. 11: 517. (**IF: 4.71**)
- M. A. Rahman, M. R. Rahman, T. Zaman, M. S. Uddin, **R. Islam**, M. M. A. Daim, and H. Rhim. 2020. Emerging Potential of Naturally Occurring Autophagy Modulators against Neurodegeneration. *Current Pharmaceutical Design*. 26: 1-8. (**IF: 2.83**)
- M.M Sheam, S.B Syed, S.K Barman, M.R Hasan, D.K Paul, **R. Islam** and S.K Biswas (2020). COVID-19: The Catastrophe of Our Time. *J Adv Biotechnol Exp Ther.*, 2020; 3(4): 01-13 (**Scopus Indexed**)
- Jae-Gyu Kim, **Rokibul Islam**, Jung-Yoon Cho, Hwalrim Jeong, Kim-Cuong Cap, Yohan Park, Abu J. Hossain and Jae-Bong Park (2018) Regulation of RhoA GTPase and various transcription factors in the RhoA pathway. *J Cell Physiol*. 1–12. (**IF: 5.54**)
- Eun-Kyoung Choi, Jae-Gyu Kim, Hee-Jun Kim, Jung-Yoon Cho, Hwalrim Jeong, Yohan Park, **Rokibul Islam**, Cuong Kim Cap & Jae-Bong Park (2017) Regulation of RhoA GTPase and novel target proteins for ROCK. *Small GTPases*: 1-8. (**IF: 8.51**)
- Md. Aatur Rahman, Md. Tipu Sultan and **Md. Rokibul Islam** (2012) Apoptosis and Cancer: Insights Molecular Mechanisms and Treatments. *Int. J. Biomol. & Biomed.* Vol. 2, no. 1, p. 1-16.

SCIENTIFIC CONFERENCES

- **Rokibul Islam**, Jae-Gyu Kim, Yohan Park, Jung-Yoon Cho, Kim-Cuong Cap, A-Ra Kho, Won-Suk Chung, Sang-Won Suh, and Jae-Bong Park (2018) Insulin induces phosphorylation of pyruvate dehydrogenase through RhoA activation pathway in HepG2. International Conference: KOREAN Society for Molecular and Cellular Biology. September 17-19, COEX, Seoul, Korea.
- **Rokibul Islam**, Jae-Gyu Kim, Yohan Park and Jae-Bong Park (2015). Phosphorylated pyruvate dehydrogenase (p-PDHA1) binds with pyruvate kinase M2 (PKM2) in response to insulin in HepG2 cells. Hallym-Nagoya City University International Symposium. December 05 2017, HUMC-Dongtan, Hwaseong-si, Gyeonggi-do 18450, Republic of Korea

TEACHING EXPERIENCES

- Associate Professor, Dept. of Biotechnology and Genetic Engineering, Islamic University, Kushtia-7003, Bangladesh **2018-Present**
 - Achievements: Deliver lectures, Conduct and supervision of project and thesis students, evaluation and Grant writing.

- Courses: Advance Biotechnology, Recombination DNA Technology, Cell Signalling, Protein Engineering, Oncology, Toxicology and Pharmacology.
- Assistant Professor, Dept. of Biotechnology and Genetic Engineering, Islamic University, Kushtia-7003, Bangladesh **2013-2018**
 - Achievements: Deliver lectures, Conduct projects, PhD Research Work, Lab management, PhD Thesis and Project writing.
 - Courses: Advance Biotechnology, Genetic Engineering, Cell Signalling, Protein Engineering, Oncology, Toxicology and Pharmacology.
- Lecturer, Dept. of Biotechnology and Genetic Engineering, Islamic University, Kushtia-7003, Bangladesh **2010-2013**
 - Achievements: Deliver lectures, carried out practical courses on laboratory and supervision of micro thesis works.
 - Courses: Fundamentals of Biotechnology, Molecular biology, Cell Biology, Biochemistry, Immunology and Microbiology.

RECOGNITION / COLLABORATIONS

- Assistant Editor, Journal of Advanced Biotechnology and Experimental Therapeutics (JABET). (2018-2019) Link: <https://www.bsmiab.org/jabet/>
- Reviewer in the field of Cell biology, Cancer biology, Inflammation and Immunity, Microbiology and Infection Disease biology of some journals.
- Member of Directory Board, Global Biotechnology & Biomedical Research Network (GBBRN), Dept. of Biotechnology and Genetic Engineering, Islamic University, Kushtia 7003, Bangladesh.
- Biochemistry Lab., Department of Biochemistry, Hallym University College of Medicine, Chuncheon, Kangwon-do, 24252, Republic of Korea.
- ABEx Bio-Research Center. Dhaka, Bangladesh. <https://bio-research.abexclusives.com>

REFERENCES

<p>Jae-Bong Park, Ph.D. Professor Department of Biochemistry, Hallym University College of Medicine, Chuncheon, Kangwon-do, 24252, Republic of Korea. Email: jbpark@hallym.ac.kr; Tel: 82-33-248-2542 Mobile: +82-10-5375-1623 Relation: Ph.D.; Advisor</p>	<p>Dr. Md. Abul Kalam Azad Professor Department of Biotechnology and Genetic Engineering Islamic University, Kushtia-7003 Bangladesh Email: akazad@btge.iu.ac.bd Phone: +880-71-7900-12 Ext. 2306 Mobile: +88 01718679377 Relation: MS Thesis Advisor</p>	<p>Dr. Md. Ataur Rahman Post-Doctoral Fellow (KRF), Center for Neuroscience, Brain Science Institute, Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea. Email: rahman@kist.re.kr; ataur1981rahman@hotmail.com Mobile: +82-10-8691-1323 Relation: Research Collaborator</p>
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DECLARATION

I hereby, declare that the statements made by me in the curriculum vitae are true, complete and correct to the best of my knowledge and behalf.



Dr. Md. Rokibul Islam