

## Dr. Md. Mahbubur Rahman

### Mailing Address

House 20, Road 04, Sector 10, Uttara,  
Dhaka, Bangladesh

### Contact Information

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## Current Position

Professor, Department of Pharmaceutical Sciences  
North South University, Dhaka-1229, Bangladesh

**Researcher h-index: 21**

**Total citations: 3377**

## Current Research Focus and Fundings

### Focus: Inflammation at the brain interface

#### Projects:

1. The molecular mechanism(s) of Cerebral Ischemia in a mouse model of Stroke
2. Cellular signaling in Autism Spectrum Disorder (ASD)
3. The inflammatory mechanism in Parkinson's Diseases
4. Neuronal plasticity in the context of Alzheimer's Diseases

## Research Grants

#### International Research Grant:

1. The World Academy of Science (TWAS) Research Grant (Individual), 2016

#### National Research Grant:

1. Bangladesh Ministry of Education grants for advanced research, 2018
2. North South University research grant, 2018
3. North South University research grant, 2019
4. North South University research grant, 2020
5. North South University research grant, 2022
6. North South University research grant, 2024

## Academic Track Record

17th Sep 2013	Doctor of Science ( <b>Dr. rer. nat</b> ), Neuroscience, University of Heidelberg, Germany
2008	M.S. in Pharmaceutical Sciences, Department of Pharmacy, Jahangirnagar University, Dhaka, Bangladesh (2005, held in 2008), <b>1st Class and 1st Position in order of merit.</b>
2006	Bachelor of Pharmacy (Hons.), Department of Pharmacy, Jahangirnagar University, Dhaka, Bangladesh (2004, held in 2006), <b>1st Class and 1st Position in order of merit.</b>
1999	Higher Secondary Certificate, Dhaka College, Dhaka Board, Bangladesh, <b>First division* (75.2%)</b>
1997	Secondary School Certificate, Naogaon K.D Govt. High School, Rajshahi Board, Bangladesh, <b>First division* (85.9%)</b>

## Teaching Experience

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<b>2023-present</b>	Professor, Department of Pharmaceutical Sciences, North South University
<b>2018-2023</b>	Associate Professor, Department of Pharmaceutical Sciences, North South University
<b>2014-2018</b>	Assistant Professor, Department of Pharmaceutical Sciences, North South University
<b>2013-2014</b>	Assistant Professor (Part-time), Department of Pharmaceutical Sciences, NSU
<b>2011-2013</b>	Lecturer (Part-time), Institute of Experimental Pharmacology and Clinical Toxicology University of Lübeck, Germany
<b>2007-2009</b>	Lecturer, Department of Pharmacy, Northern University, Bangladesh

## Administrative Experience

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<b>2023-2024</b>	<b>Chairman</b> , Department of Pharmaceutical Sciences, North South University
<b>2022- present</b>	<b>Chairman</b> , Institutional Animal Care and Use Committee (IACUC), NSU
<b>2022- present</b>	<b>Member, Institutional Review Board (IRB)</b> , North South University
<b>2020- 2021</b>	<b>Coordinator (Professional Development)</b> , Institutional Quality Assurance Cell

## Professional Experiences

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- **Pharmacist Registration Number:** A-2829 (Bangladesh Pharmacy Council)  
**Organization:** Eskayef (Former SK + F) Bangladesh Limited  
**Period:** 13th July 2006 to 13th July 2007  
**Position:** Production Pharmacist
- **Reviewer of Research Journals:**  
Frontiers in Pharmacology

## Awards and Honors

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<b>2021</b>	Merck Bangladesh Life Science Award 2021, <b>Champion</b>
<b>2021</b>	Merck South East Asia Life Science Award 2021, <b>Runner UP</b>
<b>2016</b>	The World Academy of Science (TWAS) research grant
<b>2009</b>	ERASMUS MUNDUS Ph.D. scholarship
<b>2005</b>	University Grant Commission (UGC) Bangladesh Scholarship, Jahangirnagar University <b>(highest scorer in faculty of Biological Sciences)</b>
<b>2004</b>	Shahid Mohammad Hakim Foundation Scholarship" (highest scorer in faculty of Biological Sciences)
<b>1998</b>	National Merit Scholarship, Government of Bangladesh, Dhaka Board of Intermediate and Secondary Education, Bangladesh

## Research Experience

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- 1. Animal Models of Neurodegenerative disorders**

- Animal model of cerebral ischemia (Stroke)
  - Animal model of multiple sclerosis (EAE)
  - Animal model of Autism Spectrum Disorder (ASD)
  - Animal model of Parkinson's disease
  - Animal model of Alzheimer's disease
  - Animal model of Schizophrenia
2. **Flow cytometry**
  3. **Microscopy**
    - Light microscopy, Confocal, and fluorescence microscopy
  4. **Adeno-associated viral techniques**
  5. **Real-time RT-PCR**
  6. **Brain staining techniques**
    - Immunohistochemistry, Luxol fast- blue, Hematoxylin and eosin, silver staining, congo red, Golgi -Cox, and iron staining
  7. **Assay**
    - ELISA, various oxidative stress parameters
  8. **Mouse bone marrow transplantation**
  9. **Basic cell culture-based experiments**
  10. **Mouse breeding and colony management**

## **Training Experience**

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### **2006 In-plant Training, Essential Drugs Company Limited**

Completed in-plant training in Essential Drugs Company Ltd. from April 02, 2006 to April 30, 2006, on various aspects of pharmaceutical manufacturing, product development, quality control, storage, packaging, and management.

## **Language Proficiency**

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- Good oral and written command of English
- A1 certificate course in the German Language

## **Proficiency in Micro-computers**

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### **Application Package:**

- Ms-Office
- Statistical analysis software (Sigma plot, Sigma Stat, Graph Pad Prism),
- Microscopic data analyzing software (Image J, Lyca picture analyzing tools),
- FACS analysis software (Flowjo)
- Photo editing tools (Adobe Illustrator, Photoshop, GIMP), and
- EndNote Reference Manager.

**Online tools:** Primer design by various online utility tools (NCBI Gene, ENSEMBLE, Oligo Calculator)

**Networking:** Internet, Intranet, Advanced Web Browsing

## Personal Query

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- **Name:** Md. Mahbubur Rahman
- **Father's Name:** Md. Mozibar Rahman
- **Mother's Name:** Mahmuda Begum
- **Permanent Address:** Sheba Asram Road, Bangabaria, Naogaon-6500, Bangladesh
- **Date of Birth:** 15<sup>th</sup> February, 1983
- **Nationality:** Bangladeshi (by birth)
- **Religion:** Islam (sunni)
- **Marital Status:** Married
- **Blood group:** "O" Positive

## Publications

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Please see enclosed

## References

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1. Prof. Markus Schwaninger

Director, Institute of Experimental and Clinical Pharmacology and Toxicology, University of Lübeck, Ratzeburger Allee 160, 23562 Lübeck, Germany

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2. Prof. Walter Raasch

Deputy Director, Institute of Experimental and Clinical Pharmacology and Toxicology, University of Lübeck Ratzeburger Allee 160, 23562 Lübeck, Germany

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Signature

Dr. Md. Mahbubur Rahman

## List of Publications

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### 2025

1. Rahaman MM, Akter S, Asrafie S, U ZZ, Rafsan R, Sadique A, Alam J, Khan F, Tonny NH, Hossain R, Rahman MM, Zisan AN, Billah MB, Uddin KM, **Rahman MM**, Ahmed O, Shams F, Sharmin A, Hossain MM, Hossain M. Draft genome sequence of *Pseudomonas aeruginosa* strain NGMBE-25A isolated from fecal samples of migratory birds at Jahangirnagar University, Bangladesh. *Microbiol Resour Announc*. 2025 Jun 9:e0116024. doi: 10.1128/mra.01160-24. Epub ahead of print. PMID: 40488493.

### 2024

2. Zaman, B., Mostafa, I., Hassan, T., Ahmed, S., Esha, N. J. I., Chowdhury, F. A., ... & **Rahman, M. (2024)**. Tolperisone hydrochloride improves motor functions in Parkinson's disease via MMP-9 inhibition and by downregulating p38 MAPK and ERK1/2 signaling cascade. *Biomedicine & Pharmacotherapy*, 174, 116438.
3. Rahman, A., Akter, S., Sadique, A., Alam, J., Asrafie, S., Tabassum, A., Hossain, S.A., **Rahman, M.M.**, Billah, M.B., Huq, T.S. and Uddin, K.M., 2024. Whole genome sequence of denitrifying bacterium *Stutzerimonas stutzeri* strain NGHE31, collected from an eutrophic wetland in Sunamganj, Bangladesh, following the 2017 flash floods. *Microbiology Resource Announcements*, 13(4), pp.e00001-24.
4. Masum AA, Aoki S, **Rahman MM**, Hisamatsu Y. Chemical synthetic approaches to mimic the TRAIL: promising cancer therapeutics. **RSC Med Chem**. 2024 Aug 1. doi: 10.1039/d4md00183d. Epub ahead of print. PMID: 39246747; PMCID: PMC11376135.
5. Shariare MH, Mannan M, Khan F, Sharmin A, Attwa MW, Rahman AM, **Rahman M**, Uddin MN, Kazi M. Phospholipid-based nano drug delivery system of curcumin using MSP1D1 protein and poloxamer 407: A comparative study for targeted drug delivery to the brain. *Journal of Nanoparticle Research*. **2024** Jan;26(1):12.

### 2023

6. Ahmed, S., Abir, A.H., Sharmin, O., Khurshid, N., Akter, A., Nakshy, N.T., Hasan, M.M., Yesmine, S. and **Rahman, M., 2023**. Modulation of PI3K/Akt/GSK3 $\beta$  signaling cascade through G protein-coupled receptor 55 (GPR55) activation: prenatal lysophosphatidylinositol attenuates valproic acid-induced synaptic abnormalities and mitochondrial dysfunction. *Life Sciences*, 334, p.122195.

## 2020

7. Sharmin O, Abir AH, Potoi A, Alam M, Banik J, Rahman AT, Tarannum N, Wadud R, Habib ZF, **Rahman M** (2020) Activation of GPR35 protects against cerebral ischemia by recruiting monocyte-derived macrophages. *Scientific Reports* 10:1-13.
8. Shariare MH, **Rahman M**, Lubna SR, Roy RS, Abedin J, Marzan AL, Altamimi MA, Ahamad SR, Ahmad A, Alanazi FK (2020) Liposomal drug delivery of *Aphanamixis polystachya* leaf extracts and its neurobehavioral activity in mice model. *Scientific Reports* 10:1-16.
9. **Rahman MM**, Chakraborti RR, Potoi MA, Abir A.H., Sharmin O, Alam M, Khan M.F.R., Afrin R, Jannat H, Wadud R (2020) Epalrestat improves motor symptoms by reducing oxidative stress and inflammation in the reserpine induced mouse model of Parkinson's disease. *Animal Models and Experimental Medicine* 3:9-21.

## 2019

10. Shariare MH, Altamimi MA, Marzan AL, Tabassum R, Jahan B, Reza HM, **Rahman M**, Ahsan GU, Kazi M (2019) In vitro dissolution and bioavailability study of furosemide nanosuspension prepared using design of experiment (DoE). *Saudi pharmaceutical journal : S.P.J.: the official publication of the Saudi Pharmaceutical Society* 27:96-105.

## 2017

11. Rushmi ZT, Akter N, Mow RJ, Afroz M, Kazi M, de Matas M, **Rahman M**, Shariare MH. The impact of formulation attributes and process parameters on black seed oil loaded liposomes and their performance in animal models of analgesia. *Saudi Pharmaceutical Journal*. 2017 Mar 1;25(3):404-12.
12. Al Mamun A, Hossain M, Uddin MS, Islam MT, Hossain S, Hossain MS, Hossain MF, Sujan AR, Rashid M, **Rahman MM**, Rahman AT. Comparison of the Hypoglycemic, Hypolipidemic and Hepatoprotective Effects of *Asparagus racemosus* Linn. in Combination with Gliclazide and Pioglitazone on Alloxan-Induced Diabetic Rats. *Pharmacology & Pharmacy*. 2017 Feb 13;8(02):52.

## 2016

13. Maysami S, Wong R, Pradillo JM, Denes A, Dhungana H, Malm T, Koistinaho J, Orset C, **Rahman M**, Rubio M, Schwaninger M. A cross-laboratory preclinical study on the effectiveness of interleukin-1 receptor antagonist in Stroke. *Journal of Cerebral Blood Flow & Metabolism*. 2016 Mar;36(3):596-605.
14. Al-Amin MM, Sultana R, Sultana S, **Rahman MM**, Reza HM. Astaxanthin ameliorates prenatal LPS-exposed behavioral deficits and oxidative stress in adult offspring. *B.M.C. neuroscience*. 2016 Dec;17(1):11.

15. Alam MA, Subhan N, Hossain H, Hossain M, Reza HM, **Rahman MM**, Ullah MO. Hydroxycinnamic acid derivatives: a potential class of natural compounds for the management of lipid metabolism and obesity. *Nutrition & metabolism*. 2016 Dec;13(1):27.
16. Reza HM, Tabassum N, Sagor MA, Chowdhury MR, **Rahman M**, Jain P, Alam MA. Angiotensin-converting enzyme inhibitor prevents oxidative stress, inflammation, and fibrosis in carbon tetrachloride-treated rat liver. *Toxicology mechanisms and methods*. 2016 Jan 2;26(1):46-53.

## 2015

17. Sagor AT, Chowdhury MR, Tabassum N, Hossain H, **Rahman MM**, Alam MA. Supplementation of fresh ucche (*Momordica charantia* L. var. *muricata* Willd) prevented oxidative stress, fibrosis and hepatic damage in CCl<sub>4</sub> treated rats. *B.M.C. complementary and alternative medicine*. 2015 Dec;15(1):115.
18. Al-Amin MM, **Rahman MM**, Khan FR, Zaman F, Reza HM. Astaxanthin improves behavioral disorder and oxidative stress in prenatal valproic acid-induced mice model of autism. *Behavioural brain research*. 2015 Jun 1;286:112-21.
19. Alam MA, Uddin R, Subhan N, **Rahman MM**, Jain P, Reza HM. Beneficial role of bitter melon supplementation in obesity and related complications in metabolic syndrome. *Journal of lipids*. 2015;2015.

## 2014

20. **Rahman M**, Muhammad S, Khan MA, Chen H, Ridder DA, Müller-Fielitz H, Pokorná B, Vollbrandt T, Stölting I, Nadrowitz R, Okun JG. The  $\beta$ -hydroxybutyrate receptor H.C.A. 2 activates a neuroprotective subset of macrophages. *Nature communications*. 2014 May 21;5:3944
21. Heinonen AM, **Rahman M**, Dogbevia G, Jakobi H, Wölfl S, Sprengel R, Schwaninger M. Neuroprotection by rAAV-mediated gene transfer of bone morphogenic protein 7. *B.M.C. neuroscience*. 2014 Dec;15(1):38.
22. Chen H, Assmann JC, Krenz A, **Rahman M**, Grimm M, Karsten CM, Köhl J, Offermanns S, Wettschureck N, Schwaninger M. Hydroxycarboxylic acid receptor 2 mediates dimethyl fumarate's protective effect in E.A.E. *The Journal of clinical investigation*. 2014 May 1;124(5):2188-92.
23. Al-Amin MM, Hasan SN, Alam T, Hasan AT, Hossain I, Didar RR, Alam MA, **Rahman MM**. Tadalafil enhances working memory, and reduces hippocampal oxidative stress in both young and aged mice. *European journal of pharmacology*. 2014 Dec 15;745:84-90.
24. Alam MA, **Rahman MM**. Mitochondrial dysfunction in obesity: potential benefit and mechanism of Co-enzyme Q10 supplementation in metabolic syndrome. *Journal of Diabetes & Metabolic Disorders*. 2014 Dec;13(1):60.

25. Alam MA, Subhan N, **Rahman MM**, Uddin SJ, Reza HM, Sarker SD. Effect of citrus flavonoids, naringin and naringenin, on metabolic syndrome and their mechanisms of action. *Advances in Nutrition*. 2014 Jul 7;5(4):404-17.

## 2013

26. Rosell A, Agin V, **Rahman M**, Morancho A, Ali C, Koistinaho J, Wang X, Vivien D, Schwaninger M, Montaner J. Distal occlusion of the middle cerebral artery in mice: are we ready to assess long-term functional outcome? *Translational stroke research*. 2013 Jun 1;4(3):297-307.
27. Mc Guire C, **Rahman M**, Schwaninger M, Beyaert R, van Loo G. The ubiquitin editing enzyme A20 (TNFAIP3) is upregulated during permanent middle cerebral artery occlusion but does not influence disease outcome. *Cell death & disease*. 2013 Mar;4(3):e531.
28. Al-Amin MM, Uddin MM, **Rahman MM**, Reza HM, Rana MS. Effect of diclofenac and antidepressants on the inflammatory response in astrocyte cell culture. *Inflammopharmacology*. 2013 Dec 1;21(6):421-5.
29. **Rahman M**. Induction of a neuroprotective phenotype of macrophages by the  $\beta$ -hydroxybutyrate receptor HCA2 (Doctoral dissertation, University of Heidelberg press).

## 2012

30. Bargiotas P, Muhammad S, **Rahman M**, Jakob N, Trabold R, Fuchs E, Schilling L, Plesnila N, Monyer H, Schwaninger M. Connexin 36 promotes cortical spreading depolarization and ischemic brain damage. *Brain research*. 2012 Oct 15;1479:80-5.

## 2011

31. Subhan N, Habibur R, Ashraful A, Rashedul I, **Mahbubur R**. Relationship between protein-binding and free drug concentrations of a sparingly water-soluble selective serotonin reuptake inhibitor (escitalopram) and its interaction with arsenic. *Rom. J. Biophys.* 2011;21(2):139-49.

## 2010

32. Zulfiker AH, Ripa FA, **Rahman MM**, Ullah MO, Hamid K, Khan MM, Rana MS. Antidiabetic and antioxidant effect of *Scoparia dulcis* in alloxan induced albino mice. *International Journal of PharmTech Research*. 2010 Jan 1;2(4):2527-34.
33. Zulfiker AH, **Rahman MM**, Hossain MK, Hamid K, Mazumder ME, Rana MS. In vivo analgesic activity of ethanolic extracts of two medicinal plants-*Scoparia dulcis* L. and *Ficus racemosa* Linn. *Biol Med*. 2010;2(2):42-8.

## Abstracts and Presentation:



1. Amelioration of motor deficits by Miglitol in a mouse model of Parkinson's Disease. Irona Mostafa, Shaila Akter, Avhijeet Ray Avhi, Fowzia Afsana Chowdhury, Tory Bosu, Anup Mallick, Tazree Hassan, Bushra Zaman, and Dr. Md. Mahbubur Rahman. **1st International Conference for Drug Discovery & Development and Pharma Exhibition'22, Independent University Bangladesh, September 19-20, 2022.**
2. Efficacy of Malic Acid in motor dysfunction reduction in a mouse model of cerebral ischemia. Sabiha Baker, Tazree Hassan, Irona Mostafa, Yeashin Arafat, Bushra Zaman, and Dr. Md. Mahbubur Rahman. **1st International Conference for Drug Discovery & Development and Pharma Exhibition'22, Independent University Bangladesh, September 19-20, 2022.**
3. Neuroprotective Role of Pamoic Acid in Parkinson's Disease. Humayra Bintha Haque, Kazi Samanta Jerin, Aashian Ibnat, Mohammad Maher Uddin, Uzma Farzana, Ariful Haque Abir, Shamim Ahmed, and Dr. Md. Mahbubur Rahman. **1st International Conference for Drug Discovery & Development and Pharma Exhibition'22, Independent University Bangladesh, September 19-20, 2022.**
4. Role of pamoic acid in scopolamine induced mouse model of dementia. Shamim Ahmed, Amana Akter, Nusrat Jahan, Bushra Zaman, Tazree Hassan, Irona Mostafa, Sabiha Baker, Tahia Islam, Md. Ismayel Hossain, Md. Abu Anam, Yeashin Arafat, and Dr. Md. Mahbubur Rahman. **The 2nd International Conference on Genomics, Nanotech, and Bioengineering-2022 (ICGNB-2022), North South University. June 26-28, 2022.**
5. Neuroprotective effect of Malic acid in a mouse model of stroke. Neda Khurshid, Bushra Zaman, Tazree Hassan, Irona Mostafa, Sabiha Baker, Kazi Shihabur Rahman, Alamgir Hossain, Shamim Ahmed, Amana Akter, Ozayra Sharmin, Ariful Haque Abir, and Md. Mahbubur Rahman. **The 2nd International Conference on Genomics, Nanotech, and Bioengineering-2022 (ICGNB-2022), North South University. June 26-28, 2022.**
6. Optimization of Donepezil Loaded Liposome for Nose-to-Brain Delivery – An in-vitro Mucoadhesion, and ex-vivo Permeability Study. Syed Nafis Shadman Ali, Raiyan Ahmed Khan, Nazia Zuen Anamika, Mahbubur Rahman, Mohsin Kazi, Mohammad Hossain Shariare. **The 2nd International Conference on Genomics, Nanotech, and Bioengineering-2022 (ICGNB-2022), North South University. June 26-28, 2022.**

**2019**

7. Neuroprotective effect of pamoic acid in a mouse model of cerebral ischemia. Ozayra Sharmin<sup>1</sup>, Ariful Haque Abir<sup>1</sup>, Mahabub Alam, Abdullah Pitol, Mehedi Hassan, and Md. Mahbubur Rahman. **5th Neuroscience meeting in Bonn, Germany, March 25-27, 2019.**
8. Coenzyme Q10 improves dementia on alloxan induced diabetic rat. Abdullah Pitol, Mahabub Alam, A.K.M Mahfuzur Rahman, Ozayra Sharmin, Nuzhat Tarannum, Jewel Banik, and Md Mahbubur Rahman. **5th Neuroscience meeting in Bonn, Germany, March 25-27, 2019**

9. Neuroprotective effect of DL-Malic acid in a mouse model of cerebral ischemia. Ariful Haque Abir, Ozayra Sharmin, Noshin Noorjahan, Zarrin Tasnim, Mahinoor Fairroos, Nafisa Tanjeen Nokshi, Mahabub Alam, and Md. Mahbubur Rahman. **5th Neuroscience meeting in Bonn, Germany, March 25-27, 2019**

## 2018

10. Prenatal inositol treatment improves autism like symptoms in valproic acid induced mouse model of autism, **3<sup>rd</sup> Young Scientist Congress 2018, Bangladesh Academy of Science, Bangladesh.**
11. Neuroprotective effect of Acacia Nilotica in mouse model of cerebral ischemia, **3<sup>rd</sup> Young Scientist Congress 2018, Bangladesh Academy of Science, Bangladesh**
12. Astaxanthin ameliorates motor symptoms by reducing oxidative stress and inflammation in Reserpine induced mouse model of Parkinson's disease, **3<sup>rd</sup> Young Scientist Congress 2018, Bangladesh Academy of Science, Bangladesh**
13. Effect of *Blumera Lacera* leaves extract on cerebral ischemia, **3<sup>rd</sup> Young Scientist Congress 2018, Bangladesh Academy of Science, Bangladesh**

## 2017

14. Mahabub Alam, Jewel Banik, Nuzhat Tarannum, Ozayra Sharmin, Md. Abdullah PotoI, Rasiqh Wadud, Zaki Farhad Habib, and **Md. Mahbubur Rahman**, Neuroprotective effects of Aphanamixis Polystachya leaves extract in Cerebral Ischemia, **International Conference on genomics nanotechnology and Bioengineering 2017, North South University, Dhaka , Bangladesh**
15. Rupali Rani chakraborti, Md. Fazlur Rahman Khan, Rawnock Afrin, Mahabubul Alam, Md. Abdullah PotoI, Humayra Jannat, Fahmida Zaman, Rasiqh Wadud, **Md. Mahbubur Rahman**, and Zaki Farhad Habib, **International Conference on genomics nanotechnology and Bioengineering 2017, North South University, Dhaka , Bangladesh**
16. Md.Fazlur Rahman Khan, Rupali Rani chakraborti, Rawnock Afrin, Mahabubul Alam, Md. Abdullah PotoI, Fahmida Zaman ,Humayra Jannat, Zaki Farhad Habib, **Md. Mahbubur Rahman**, and Rasiqh Wadud, **International Conference on genomics nanotechnology and Bioengineering 2017, North South University, Dhaka , Bangladesh**
17. Md. Abdullah PotoI, Mahabub Alam, Jewel Banik, Ozayra Sharmin, Nuzhat Tarannum, Rasiqh Wadud, Zaki Farhad Habib, Obayed Ullah, and Md. Mahbubur Rahman\*, Aphanamixis Polystachya leave extract improves stroke outcome by by enhancing anti oxidative defense mechanism. **10th International Conference on Neuroscience and Neurochemistry February 27-28, 2017 Amsterdam, Netherlands**

## 2013

18. **M. Rahman**, s. Muhammad, j. G. Okun, s. Offermanns, m. Schwaninger. The hydroxyl-carboxylic acid receptor 2 reduces ischemic brain damage through an immunomodulatory mechanism. Cluster of Excellence in inflammation Research, 'Inflammation at Interfaces' **Hamburg, Germany** (2013), Poster.
19. Hui Chen, Antje Krenz, Myriam Grimm, **Mahbubur Rahman**, Nina Wettschureck and Markus Schwaninger. Dimethyl fumarate alleviates experimental autoimmune encephalomyelitis (E.A.E.) via HCA<sub>2</sub> receptors. Cluster of Excellence in inflammation Research, 'Inflammation at Interfaces' **Hamburg, Germany** (2013), Poster

## 2012

20. **M. Rahman**, s. Muhammad, j. G. Okun, s. Offermanns, m. Schwaninger. HCA<sub>2</sub>-mediated protective effect of nicotinic acid in cerebral ischemia. **Society for Neuroscience, New Orleans, LA** (2012); Poster

## 2011

21. Michalski, A.-M.; **Rahman, M.**; Groß, A.; Alborzinia, H.; Seeburg, P. H.; Wölfl, S.; Schwaninger, M.; Sprengel, R.: Novel recombinant AAV gene delivery systems for the modulation of BMP signaling in ischemic injury. **Society for Neuroscience , Washington, DC** (2011); Poster
22. Salinin S, Muhammad S, **Rahman M**, Ridder DA, Schröck H, Offermanns S, Schwaninger M. The crucial role of endothelial G<sub>q/11</sub> in regulation of cerebral blood flow. XXV the International symposium on Cerebral Blood flow, Metabolism, and Function & Xth International Conference on Quantification of Brain Functions with PET. **Barcelona, Spain**, May 25-28, 2011.