

Name: Md. Saidur Rahman  
Present Position: Senior Scientific Officer  
Present Posting Place: BCSIR Chattogram Laboratories  
Employee ID: 10180  
Joining Date: 12/07/2010  
Joining Position: Scientific Officer

### **List of publications**

- 1. Rahman MS**, Chakraborty A, Kibria A, Hossain, MJ. 2023. Effects of Silver Nanoparticles on Seed Germination and Growth performance of Pea (*Pisum sativum*), *Plan Nanobiology* (ELSEVIER, accepted)
2. Chakraborty D, Arefin P, Bhattacharjee SC, Hasan M, Sarkar R, Das S, **Rahman S**, Habib MS, Islam S, Jahan F, Ray G. 2023. Biological activity of *Mesua ferrea* (Nageswar) seed extracts: An in vitro and in silico study. *Informatics in Medicine Unlocked*, 101166. (ELSEVIER, Impact factor: **0.794**, <https://doi.org/10.1016/j.imu.2023.101166>)
3. **Rahman MS**, Nandi NC, and Goswami B. 2021. In vitro regeneration of *Mirabilis jalapa* L. *Bangladesh Journal of Scientific and Industrial Research*, 56(1), 25-28. <https://doi.org/10.3329/bjsir.v56i1.52692>
4. Hossain MJ, **Rahman MS** and Sharif MJ. 2020. Micromixer: An Effective Tool for the Production of Sub-Nanosized Noble Metal Particles. *International Journal of Nanoscience*, 19(06), 2050013. <https://doi.org/10.1142/S0219581X20500131>
5. Rahman MS, Chakraborty A, Mazumdar S, Nandi NC, Bhuiyan MNI, Alauddin. SM., ... and Hossain MJ. 2020. Effects of poly (vinylpyrrolidone) protected platinum nanoparticles on seed germination and growth performance of *Pisum sativum*. *Nano-Structures & Nano-Objects*, 21, 100408 (ELSEVIER, **Impact factor 5.9**, DOI:10.1016/j.nanoso.2019.100408).
6. Halder M, Dhar PP, Joarder JC, Amin MS, Kobir MH, Dey AK and **Rahman MS**\*2018. Effects of edaphoclimatic factors on arbuscular mycorrhiza fungi colonization in Chittagong BCSIR reserve forest, Bangladesh. *Bangladesh J. Bot.*47(1):97-104. (SCI, Impact factor 0.301, Year 2015/16).
7. Hossain MJ, **Rahman MS**, Khatun M, Akhter S, Nandi NC 2017. Purification of poly(vinylpyrrolidone) stabilized platinum nanoparticles by hemodialyzer. *J.Nano-Structures & Nano-Objects*. 10: (105-111) April, 2017. (ELSEVIER, **Impact factor 5.9**, DOI:10.1016/j.nanoso.2017.03.005).
8. Halder M, Akhter S, Mouri NJ and **Rahman MS**\* 2016. Vertical distribution of AM colonization and relationship with soil properties in medicinal plants of BCSIR3 Reserve forest

Chittagong, Bangladesh. Bangladesh J. Bot. 45(1): 117-125. (SCI, Impact factor: 0.301, Year 2015/16).

9. Hossain MJ, **Rahman MS**, Rahman MS, Ali MA, Nandi NC, Noor. N, Ahmed KN, Akhter S 2015. Optimized Reduction Conditions for the Microfluidic Synthesis of  $1.3\pm 0.3$  nm Pt Clusters. J Nanostruct. Chem. November 2015. ( SPRINGER,DOI:10.1007/s40097-015-0179-5).

10. **Rahman MS**, Akhter S, Ahmed KN, Rahman MS, Saha RK, Hossain MJ 2015. Tunable synthesis of platinum nanoparticles by EtOH reduction in presence of poly(vinylpyrrolidone) (PVP). Bangladesh J. Sci. Ind. Res. 50(2):87-92. ( ISI, Thomson Reuters Master Journal List, USA. DOI: 10.3329/bjsir.v50i2.24349 ).

11. **Rahman MS\***, Akter R, Sontosh M, Islam F, Mour NJ, Nandi NC, Mohammad ASM 2015. Antidiabetic and antidiarrhoea effect of ethanolic extracts of aerial parts of *Cynodon dactylon* Pers. Asian Pacific J Trop Biomed 5(8): 658-682. (ELSEVIER, DOI:10.1016/j.apjtb.2015.04.011 ).

12. Halder M, Akhter S, Mahmud ASM, Islam F, Mullick R, Joarder JC, Amin MS, Karim R, Talukder H, Rahman MS 2015. Prevalence of Arbuscular Mycorrhiza Fungi (AMF) colonization in medicinal plant root and response of prevalence with some selected medicinal plants rhizosphere soil properties in BCSIR forest, Chittagong, Bangladesh. J. Pure Appl. Microbiol. 9(1): 131-140. (SCI, Impact Factor: 0.073, Year: 2013/2014).

13. **Rahman MS\***, Khatun H 2014. Four new records of acrocarpous mosses for Bangladesh. Bangladesh J. Bot. 43(3): 305-312. (SCI, Impact factor: 0.377, Year 2013/14, DOI:10.3329/bjb.v43i3.21602).

14. **Rahman MS\***, Khatun H 2014. Floristic account of Boldha Garden, Dhaka: Class Hepaticopsida and Bryopsida. Dhaka Univ. J. Biol. Sci. 23(2): 147-156. (ISI, Thomson Reuters Master Journal List, USA. DOI: 10.3329/dujbs.v23i2.20094).

15. Halder M, Mahmud ASM, Amin MS, Rabbi SMF, Islam F, **Rahman MS**, Nandi NC, Mouri NJ, Ray S and Joarder JC 2014. Effect of iron dust on arsenic accumulation and nutrient status of *Ipomoea aquatica* growing in arsenic contaminated soil. Res. J. Soil Biol. 6(1): 17-24. (ISI, Thomson Reuters Master Journal List, USA. DOI: 10.3923/rjsb.2014.17.24 ).

16. Islam F, Bhattacharjee SC, Khan SSA and **Rahman S** 2014. Determining the magnesium concentration from some indigenous fruits and vegetables of Chittagong region, Bangladesh. Inter. Food Res. J. 21(4): 1413-1417.4

17. Mohamud ASM, Chowdhury M, Karim R, Islam S, **Rahman MS**, Halder M, Alam K, Bhuiyan HR and Islam F 2014. Prevalence and In-vitro Evaluation of Probiotic Properties of *Lactobacillus delbrueckii* and *Lactobacillus plantarum* Isolated from Yoghurt in Chittagong Division, Bangladesh. J. Pure Appl. Microbiol. 8(3):2271-2281. (SCI, Impact Factor: 0.073, Year: 2013/2014).

18. Akter R, Mahabub-Uz-Zaman M, **Rahman MS**, Khatun MA, Abdullah AM, Nazim Uddin Ahmed NU, and Islam F 2013. Comparative Studies on Antidiabetic effect with phytochemical screening of Azadirachta indica and Andrographis paniculata. IOSR-JPBS 5(3): 122-128.
19. Islam F, **Rahman MS**, Akter R, Bakar MA, Abdullah AM and Ahmed NU 2012. Antidiabetic and antioxidant effect with phytochemical screening of ethanol extract of Saurauia roxburghi. Inter. J. Pharma, Sci. 2601-2612.
20. Akter R, Satter MA, Khan MS, **Rahman MS** and Ahmed NU 2012. Cytotoxic effect of five medicinal plants extracts using brine shrimp (Artemia salina) test. Bangladesh J. Sci. Ind. Res. 47(1): 133-136. (ISI, Thomson Reuters Master Journal List, USA. DOI:10.3329/bjsir.v47i1.10724 ).

#### **List of Process**

1. Md. Saidur Rahman, Mohammad Nazrul Islam Bhuiyan and Nemai Chandra Nandi, 2020. Production of Skin Care with Natural Ingredients. (Ref: 39.02,0000.43.37.572.19/599, Date: 30/09/2020)

#### **List of Patent**

1. Md. Saidur Rahman, Mohammad Nazrul Islam Bhuiyan and Nemai Chandra Nandi, 2022. A production process of multicare skin care product ( Submitted, Date: 29/05/2022).