

Suman Das

Senior Scientific Officer

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AREAS OF SPECIALIZATION

- Analytical Chemistry** Method development and Validation of organic pollutants and antibiotics in different matrices using LCMS/MS, HPLC, GCMS, GC-ECD, GC-FID, FT-IR and UV visible spectrometer.
- Food safety** Analysis of samples in order to determine nutrition facts and the presence of any contaminants and adulterants such as pesticides, antibiotics, preservatives, sweeteners, aflatoxins etc.

CURRENT POSITIONS

- 2017/ July– present Senior Scientific Officer, BCSIR Laboratories, Chattogram, Bangladesh Council of Scientific and Industrial Research, Chattogram

PREVIOUS POSITIONS

- 2009/ Dec. – 2017/ July Scientific Officer, BCSIR Laboratories, Chattogram, Bangladesh Council of Scientific and Industrial Research, Chattogram

EDUCATION

- 2004 M.S. in Inorganic Chemistry, Department of Chemistry, University of Chittagong, Bangladesh.
- 2003 B.Sc(Hons). in Chemistry, Department of Chemistry, University of Chittagong, Bangladesh.

PUBLICATIONS

2023

Priyanka Matin, S. M. Abdul Nayeem, Mohammed Mahbul Matin, Md. Rezaur Rahman, **Suman Das**, Dipankar Chakraborty. Synthesis of Protected D-Glucopyranosides as Mucormycosis Inhibitors: DFT, Docking, ADMET, and SAR Studies. Egyptian Journal of Chemistry, June 2023. DOI: 10.21608/ejchem.2022.133698.5895.

Morshed Hossan Molla; Mohammad Abu Taiyeb Chowdhury; Md. Muhibbullah; Kazi Md. Barkat Ali; Md. Habibur Rahman Bhuiyan; **Suman Das**; A.J.M. Morshed; Jewel Das; Saiful Islam. Suitability of drinking water quality in Chittagong Metropolitan City, Bangladesh: research on urban water bodies (UWBs) using multivariate analytic techniques. H2Open Journal (2023) 6 (2): 140–156. <https://doi.org/10.2166/h2oj.2023.015>.

Dipankar Chakraborty, Paroma Arefin, Sreebash Chandra Bhattacharjee, Mehedi Hasan, Rajib Sarkar, **Suman Das**, Saidur Rahman, Md Shehan Habib, Shirmin Islam, Ferdoushi Jahan, Gorungo Ray, Jannatul Ferdous, Fahima Farhana, Md Ashraful Islam, Mohammad Mostafa. Biological activity of Mesua ferrea (Nageswar) seed extracts: An in vitro and in silico study. Informatics in Medicine Unlocked, 36, 2023, 101166. <https://doi.org/10.1016/j.imu.2023.101166>.

2022

S. Das, M.N. Uddin, M.S. Haque, D. Chakraborty, M. Mostafa, A. Hasnaine, S.K. Das, M. Uddin. Hydroxymethylfurfural Content and Sugar Profile of Honey Available in Bangladesh Using Validated HPLC-PDA and HPLC-RID. J. Food Qual. Hazards Control 2022, 9(3): 160-168. DOI: 10.18502/jfqhc.9.3.11154.

Md. Atiquel Islam Chowdhury, Tasnim Rahman Anisa, Sreebash Chandra Bhattacharjee, **Suman Das**. In Silico Investigation of Some Glucose-Aspirin as COX Inhibitor. Journal of Applied Science & Process Engineering, 9(1), 2022. DOI: <https://doi.org/10.33736/jaspe.4065.2022>.

Morshed Hossan Molla, Mohammad Abu Taiyeb Chowdhury, Md. Habibur Rahman Bhuiyan, **Suman Das**, A. J. M. Morshed, Jewel Das and Saiful Islam. Seasonal variation of drinking water quality in urban water bodies (UWBs) of Chittagong Metropolitan City, Bangladesh: implications of higher water quality index (WQI) for the urban environment. Water Supply, 2022, 22 (5): 4934–4950.. <https://doi.org/10.2166/ws.2022.151>.

- Paroma Arefin, Md Shehan Habib, Nazim Uddin Ahmed, Md Abdur Rahim, Md Ibrahim, Sreebash Chandra Bhattacharjee, Dipankar Chakraborty, Suman Das, Debabrata Karmakar, Dip Bhowmik, Shirmin Islam, Md Saidul Arefin. Allergic Rhinitis and Importance of Fexofenadine HCl Sustained Release Microsphere as Its Treatment Approach. *International Journal of Applied Pharmaceutics*. 14, 1, 2022. DOI: <https://doi.org/10.22159/ijap.2022v14i1.40369>.
- 2021 Mohammad Sharif Uddin, Md. Mijanur Rahman, Md. Omar Faruk, Asma Talukder, Md. Imranul Hoq, **Suman Das**, K. M. Shariful Islam, Bacterial gastroenteritis in children below five years of age: a cross-sectional study focused on etiology and drug resistance of Escherichia coli O157, Salmonella spp., and Shigella spp.. *Bull Natl Res Cent* 45, 138 (2021). <https://doi.org/10.1186/s42269-021-00597-9>.
- 2020 Uddin M. N., Uzzaman M., **Das S.**, Al-Amin M., Mijan M. N. H., Stress degradation, structural optimization, molecular docking, ADMET analysis of tiemonium methylsulphate and its degradation products. *Journal of Taibah University for Science*, 14, 1134-1146, 2020. <https://doi.org/10.1080/16583655.2020.1805186>.
- 2019 Uddin M. N., Al-Amin M., Mijan N. H. M., **Das S.**, "Stability Indicating UPLC Method for the Degradation Study of Ketorolac Tromethamine"., *Indonesian Journal of Pharm. Sci. and Tech.*, 6(1), 11-26, 2019. <https://doi.org/10.24198/ijpst.v6i1.16508>.
- 2018 **Das S.**, Das P. K., Das S. K., Sarkar R., Chakraborty D. , Islam S., Bhuiyan H. R., Quality Monitoring of Jar Water Collected from Different Spot of Chittagong Metropolitan City, Bangladesh. *IOSR Journal of Environment Science, Toxicology and Food Tech.*, 10(1), 83-87,2018.DOI: 10.9790/2402-1210018387.
- 2017 Das, P. K., **Das S***, Morshed, A. J. M., Chakraborty, D, Sabuj, R. H., Bhattacharjee, S. C., Bhuiyan H. R., Toxic metals and essential nutrients concentration in Different vegetables collected from market sites of chittagong metropolitan city, bangladesh. *Current World Environment*, 12(2), 270-277, 2017. DOI: <http://dx.doi.org/10.12944/CWE.12.2.10>
- 2017 Uddin M. N, Uddin M, Kabir T, **Das S.** New Validated UPLC Method for the Determination of Tiemoniummethylsulphate in

- Pharmaceutical and Biosamples. *Pharm Pharmacol Int J.*, 5(2), 00117, 2017. DOI: 10.15406/ppij.2017.05.00117
- 2017 Uddin M. N., **Das S.**, Md Mijan NH., Md. Al-Amin., Bhuiyan HR., Simultaneous Determination and Mutual Interaction Study of Ciprofloxacin and Chloramphenicol in Concomitant Administration by a New UPLC Method. *Pharm Anal. Acta.*, 8(1), 535, 2017. DOI: 10.4172/2153-2435.1000535
- 2017 Chakraborty D., Das J., Das P. K., Bhattacharjee S. C., and **Das S.**, Evaluation of the parameters affecting the extraction of sesame oil from sesame (*Sesamum indicum L.*) seed using Soxhlet apparatus. *Inter. Food Res. Journal*, 24(2) 691-695, 2017. [http://www.ifrj.upm.edu.my/24%20\(02\)%202017/\(32\).pdf](http://www.ifrj.upm.edu.my/24%20(02)%202017/(32).pdf).
- 2017 Uddin M. N., Uddin M., Kabir T., **Das S.**, New Validated UPLC Method for the Determination of Tiemonium methylsulphate in Pharmaceutical and Biosamples, *Pharm Pharmacol Int J.*, 5(2), 00117, 2017. DOI: 10.15406/ppij.2017.05.00117.
- 2016 Uddin M. N., **Das S.**, Md Mijan NH., Khan, S. H., Shill, S. K., Bhuiyan HR., and Karim R., Simultaneous Determination of amoxicillin and Chloramphenicol and their drug interaction study by the validated UPLC Method. *Journal of Taibah University for Science*, 10, 755-765, 2016. <https://doi.org/10.1016/j.jtusci.2015.11.005>.
- Mazumdar R. M., AL Faik A., Nipa M. N., Shazada N E., **Das S.**, and Bhuiyan, H. R., Effects of *Garcinia pedunculata* (Toikor) fruit powder and natural preservatives on the shelf life of breads, *Inter. Journal. of Current Science and Technology*, 4(2), 124-127, 2016. Md-Al-Faik/publication/309041246_
- J., Das, Chakraborty, D., **Das S.**, Bhattacharjee, S. C., P. K. Das, Physicochemical parameters and heavy metals contents in soybean oil from Bangladesh, *Pakistan journal of Nutrition*, 15(6), 565-571, 2016 DOI: [10.3923/pjn.2016.565.571](https://doi.org/10.3923/pjn.2016.565.571).
- 2014 Molla, M. H., Chowdhury, M. A. T., Ali, K. M. B., Bhuiyan, H. R., Mazumdar, R. M., **Das, S.**, Supply water quality in urban Bangladesh: A case study of Chittagong metropolitan city. *Asian Journal of Water environment and pollution*, 11(4), 27-38, 2014.

articles/asian-journal-of-water-environment-and-pollution/ajw11-4-04.

Uddin M. N., **Das S.**, Md Mijan NH., Khan, S. H., Shill, S. K., Bhuiyan HR., and Karim R., A novel validated UPLC method for the estimation of ketorolac tromethamine in pharmaceutical formulation, *Research*, 1, 1237,2014. DOI//dx.doi.org/10.13070/rs.en.1.1237.

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Das J., **Das S**, Bakar M. A., Biswas A., Uddin M.,. Evaluation of essential and toxic metals in bakery foods consumed in Chittagong (Bangladesh). *Analytical Chemistry: An Indian Journal*, 13(3), 118-125, 2013. publication/303813763.

Islam S., M. A. Bakar, F. Islam*, A. Hossain, **S. Das**, Bhuiyan H. R., Heavy Metals Concentration at Different Tannery Wastewater Canal of Chittagong City in Bangladesh. *International Journal of Agriculture, Environment & Biotechnology*, 6(3): 344-350 2013. <https://doi.org/10.5958/j.2230-732X.6.3.003>.

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T. Nawas, R. M. Mazumdar, **S. Das**, M. N. Nipa, S. Islam, H. R. Bhuiyan and I. Ahmad. Microbiological Quality and Antibioqram of E. coli, Salmonella and Vibrio of Salad and Water from Restaurants of Chittagong. *J. Environ. Sci. & Natural Resources*, 5(1), 159-166, 2012. DOI: <https://doi.org/10.3329/jesnr.v5i1.11571>
Mahbuba A, Islam S, Mazumdar RM, Fakruddin M, Das S, Bhuiyan H and Prodhan SH. A biological tool to combat against multidrug-resistant *Salmonella* isolated from poultry of Chittagong City, Bangladesh. *International Journal of Natural Sciences* 2(1), 71-75, 2012. DOI: <https://doi.org/10.3329/ijns.v2i1.12135>.