

Curriculum Vitae of Dr Nusrat Subhan

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PREVIOUS JOB HISTORY

1. Associate Professor, Department of Pharmaceutical Sciences, North South University, Bangladesh. (1st April 2022 till now).
2. Assistant Professor, Department of Pharmaceutical Sciences, North South University, Bangladesh. (27th December 2015 till 31st March 2022).
3. Casual staff of the School of Biomedical Sciences, Charles Sturt University, NSW, Australia. (July 2012 to December 2015).
4. Lecturer, Department of Pharmacy, Faculty of Science, Northern University, Bangladesh. (1st July, 2007 till 30th November, 2008).
5. Quality Assurance Officer, Drug International Pvt. Ltd. (Manufacturer of Pharmaceuticals). (1st June 2006 till 30th June 2007).

EDUCATIONAL BACKGROUND

NO	DEGREE	INSTITUTION	Year	AWARD/GRADE
1	PhD	School of Biomedical Sciences, Charles Sturt University, Wagga Wagga, NSW, Australia.	2016	Awarded
2	MS in Pharmaceutical technology	University of Asia Pacific, Dhaka Bangladesh.	2008	Grade-B GPA-3.33/4
3	B Pharm. (Hons.)	Pharmacy Discipline, Life Science School, Khulna University, Bangladesh	2006	First Class, (First) % of marks obtained-70.54%
4	Higher Secondary Certificate Examination	Govt M. M. City College, Khulna.	2000	Science, First Division, % of marks obtained-81.8 %

5	Secondary School Certificate Examination	Govt. Coronation Secondary Girls' School Khulna.	1998	Science, First Division, % of marks obtained- 87.90 %
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AWARDS AND SCHOLARSHIP

- 1) North South University internal research grant award 2023-2024 for “Assessment of antidiabetic, hypolipidemic, antioxidative activities and histopathological assays of *Swertia chirayita* in high fat diet fed rats” as a Principal investigator.
- 2) North South University internal research grant award 2019-2020 for “Isolation of bioactive compounds from citrus plants and evaluation of the antioxidant and anti-diabetic activity in *in vitro* model” as a Principal investigator.
- 3) Ministry of Science and Technology, Special allocation research grant 2022-2023, “Evaluation of the modulating effect of epidermal growth factor receptor inhibitor cetuximab in Carbon-tetrachloride induce hepatic fibrosis in rats.
- 4) Ministry of Science and Technology, Bangladesh R & D project research grant 2019-2020, “Isolation of bioactive natural compounds from various rice bran extracts and evaluation of anti-hyperlipidemic activities *in vivo*” as a Principal investigator.
- 5) North South University internal research grant award 2019-2020 for “Isolation of bioactive compounds from citrus plants and evaluation of the antioxidant and anti-diabetic activity in *in vitro* model” as a Principal investigator.
- 6) 2nd Best Poster Presenter Award at 4th Young Scientists Congress at Bangladesh Academy of Sciences from 13 to 15 December 2019.
- 7) Best Poster Presenter Award at 18th International Congress of ISE-SFEC 2018.
- 8) Faculty of Science (COMPACT) Scholarship from Charles Sturt University, NSW, Australia for PhD. (2012 to 2015).
- 9) Scholarship from Khulna University, Bangladesh due to the outstanding results in 1st, 2nd, 3rd and 4th year of study (2000-2001 to 2003-2004).

- 10) Scholarship from Jessore Board (Bangladesh) for outstanding results in Higher Secondary Certificate Examination-2000 to pursue University study.
- 11) Talent pool scholarship at School, 1996.

RESEARCH WORK DONE IN UDERGRADUATE AND POST GRADUATE LEVEL

- 1) “Phytochemical and pharmacological investigations of Australian *Acacia*: An ethnomedicine-guided bioprospective approach”.
- 2) “*In-vitro* protein binding nature of escitalopram (a selective serotonin reuptake inhibitor) and drug - drug interaction in presence of fatty acids and arsenic”.
- 3) “Phytochemical and Pharmacological screening of *Excoecaria agallocha*” was submitted for the Partial fulfillment of the degree Bachelor of Pharmacy (Hons) from Khulna University, Bangladesh.

REVIEWS and BOOK CHAPTER

YEAR 2021

- 1) Md. Ashraful Alam, Priota Islam, **Nusrat Subhan**, Md. Mizanur Rahman, Ferdous Khan, Geoffrey E. Burrows, Lutfun Nahar and Satyajit Dey Sarker (2021) Potential Health Benefits of Anthocyanins in Oxidative Stress Related Disorders, *Phytochemistry Review*. 20, pages705–749.

YEAR 2018

- 2) **Nusrat Subhan**, Geoffrey E. Burrows, Philip G. Kerr, Hassan K. Obied (2018). *Phytochemistry, ethnomedicine and pharmacology of Acacia. Studies in Natural Products Chemistry* (Book series). Vol 57. Chapter 9.

YEAR 2016

- 3) Md Ashraful Alam, **Nusrat Subhan**, Hemayet Hossain, Murad Hossain, Hasan Mahmud Reza, Md Mahbubur Rahman, M Obayed Ullah (2016) Hydroxycinnamic acid derivatives: a potential class of natural compounds for

the management of lipid metabolism and obesity. *BMC Nutrition and Metabolism*. **13**:27.

YEAR 2015

- 4) Md Ashraful Alam, Riaz Uddin, **Nusrat Subhan**, Md Mahbubur Rahman, Preeti Jain and Hasan Mahmud Reza (2015) Beneficial role of Bitter melon supplementation on obesity and related complications in metabolic syndrome, *Journal of Lipids*, Article ID 496169, 18 pages, 2015.

YEAR 2014

- 5) Md. Ashraful Alam, **Nusrat Subhan**, Md Mahbubur Rahman, Shaikh J Uddin, Hasan M Reza and Satyajit D Sarker (2014). Effect of citrus flavonoids, naringin and naringenin, on metabolic syndrome and their mechanisms of action, *Advances in Nutrition* 5(4):404-417.

SCIENTIFIC ARTICLES

2025

1. Mirza Alimullah, Ishrat Jahan, Md Mizanur Rahman, Ferdous Khan, Khondoker Shahin Ahmed, Md Hemayet Hossain, Hesamoddin Arabnozari, Md Ashraful Alam, Satyajit D. Sarker, Lutfun Nahar, and **Nusrat Subhan** (2025) Epicatechin- and Polyphenol-Rich Camellia sinensis Powder Attenuates Isoprenaline-Induced Cardiac Injury via Activation of the Nrf2-HO-1 Antioxidant Pathway in Rats, **Scientific Reports**, (Accepted).
2. Tahmina Yasmin, Sreelakshmi N. Menon, Ajay Pandey, Shahnaz Siddiqua, Syed Abdul Kuddus, Md. Mizanur Rahman, Ferdous Khan, Nazia Hoque, Md. Sohel Rana, **Nusrat Subhan**, Emran Habibi, Satyajit D. Sarker, Lutfun Nahar, Md. Ashraful Alam, and Raquibul Hasan (2025) Multiple roles of resveratrol in mitigating high fat diet-induced hepatic oxidative stress and preserving intestinal barrier function by modulating antioxidant and anti-inflammatory signaling, **Scientific Reports**, Accepted .
3. Ishrat Jahan, Asif Ul Haque Shuvo, Mirza Alimullah, ASM Nafiur Rahman, Shahnaz Siddiqua, Shatil Rafia, Ferdous Khan, Khondoker Shahin Ahmed, Hemayet Hossain, Kazi Akramuddaula, Md Ashraful Alam, **Nusrat Subhan**, (2025) Purple potato extract modulates fat metabolizing genes expression,

prevents oxidative stress, hepatic steatosis, and attenuates high-fat diet-induced obesity in male rats, **Plos One**, 20(4): e0318162.

4. Asif Ul Haque Shuvo, Mirza Alimullah, Ishrat Jahan, Kaniz Fatima Mitu, Md Junaid Rahman, Kazi Akramuddaula, Ferdous Khan, Pritesh Ranjan Dash, **Nusrat Subhan**, Md Ashraful Alam (2025) Evaluation of xanthin oxidase inhibitors febuxostat and allopurinol on kidney dysfunction and histological damage in two kidneys one clip (2K1C) rats, **Scientifica**, Volume 2025, Article ID 7932075, 20 pages.

YEAR-2024

5. Ishrat Jahan, Asif Ul Haque Shuvo, Mirza Alimullah, ASM Nafiur Rahman, Shahnaz Siddiqua, Shatil Rafia, Ferdous Khan, Khondoker Shahin Ahmed, Hemayet Hossain, Kazi Akramuddaula, Md Ashraful Alam, **Nusrat Subhan**, (2024) Purple potato extract modulates fat metabolizing genes expression, prevents oxidative stress, hepatic steatosis, and attenuates high-fat diet-induced obesity in male rats, *Plos One* (Accepted).
6. Asif Ul Haque Shuvo, Mirza Alimullah, Ishrat Jahan, Kaniz Fatima Mitu, Md Junaid Rahman, Kazi Akramuddaula, Ferdous Khan, Pritesh Ranjan Dash, **Nusrat Subhan**, Md Ashraful Alam (2024) Evaluation of xanthin oxidase inhibitors febuxostat and allopurinol on kidney dysfunction and histological damage in two kidneys one clip (2K1C) rats, *Scientifica* (Accepted).
7. Tahsin Zahan, Mirza Alimullah, Ishrat Jahan, Md. Borhan Uddin, Khondker Ayesha Akter, Md. Junaid Rahman, Shahnaz Siddiqua, Kamrun Nahar Ela, Sakil Amin, Khondoker Shahin Ahmed, Hemayet Hossain, Ferdous Khan, Md Ashraful Alam, **Nusrat Subhan** (2024) *Baccaurea ramiflora* fruit peel powder supplementation prevented inflammatory cell infiltration, oxidative stress, and fibrosis in carbon tetrachloride (CCl₄) administered ovariectomized rats, *Phytomedicine Plus* (Accepted)
8. Ishrat Jahan, SM Hasan Hafiz, Mirza Alimullah, Asif Ul Haque, Md. Fakruddin, **Nusrat Subhan**, Ferdous Khan, Khondoker Shahin Ahmed, Kazi Akramuddaula, Hemayet Hossain, Md Ashraful Alam (2024) Evaluation of fenugreek (*Trigonella foenum-graecum* L.) powder supplementation on metabolic syndrome, oxidative stress and inflammation in high-fat diet fed rats. *Pharmacological Research-Natural Products*, 5:100116.
9. Mirza Alimullah, A S M Nafiur Rahman, Puspa Sornaker, Kazi Akramuddaula, Sumaia Sarif, Shahnaz Siddiqua, Kaniz Fatima Mitu, Ishrat Jahan, Ferdous Khan, **Nusrat Subhan**, Md. Ashraful Alam (2024). Evaluation of *Terminalia arjuna* bark powder supplementation on isoprenaline-induced oxidative stress and inflammation in the heart of Long Evans rats, understanding the molecular mechanism of this old medicinal plant. *Journal of Medicinal Natural Products*, 1(1), 100004.

10. Md. Mizanur Rahman; Mirza Alimullah, Tahmina Yasmin, Nasrin Akhter, Iqbal Ahmed, Ferdous Khan; Mousumi Saha, Mohammad A. Halim, **Nusrat Subhan**, Md. Areeful Haque, Md Ashraful Alam (2024) Cardioprotective action of apocynin in isoproterenol induced cardiac damage is mediated through Nrf-2/HO-1 signaling pathway, *Food Science & Nutrition*, 12:9108–9122.
11. Shamima Sultana, Sadia Afrin Eva, Shahnaz Siddiqua, Hridoy Chandra Ghosh, Md Sakil Amin, Sadia Rahman, **Nusrat Subhan**, Md Ashraful Alam, Md Nurul Islam, (2024) Black seed (*Nigella sativa*) powder supplementation prevented oxidative stress and cardiac fibrosis in isoprenaline administered rats. *J. Bio. Exp. Pharmacol.* 2024, 2, 31-45. <https://doi.org/10.62624/JBEP0009>
12. Mirza Alimullah, Asif Ul Haque Shuvo, Md. Delower Hossain, Khondoker Shahin Ahmed, Hemayet Hossain, Abdullah Al Rakib, Kazi Akramuddaula, Md. Ashraful Alam, **Nusrat Subhan** (2024) Evaluation of bioactive compounds from various citrus fruits in Bangladesh and evaluation of their effect as antioxidant and on glucose metabolizing enzymes *in vitro*. *J. Bio. Sci. Exp. Pharmacol.* 2024, 2, 46-64. <https://doi.org/10.62624/JBEP00010>
13. Mirza Alimullah, Indrajit Barua Muthsuddy, Iftakhar Alam, Aka Barua Joya, Tahasin Akhter, Asma Akter, Md Sakil Amin, Sraboni Anmol Khan, Md Ashraful Alam, **Nusrat Subhan** (2024) Evaluation of *Mimosa pudica* leaf extract on oxidative stress and fibrosis in liver of carbon tetrachloride (CCl₄) administered rats, *J. Bio. Exp. Pharmacol.* 2024, 2, 65-77. <https://doi.org/10.62624/JBEP00011>
14. Mirza Alimullah, Asif Ul Haque Shuvo, Ishrat Jahan, Iffat Nowshin Ismail, S.M. Mufidul Islam, Mahnaj Sultana, Mahmudur Rahman Saad, Md. Sabbir Raihan, Ferdous Khan, Md. Ashraful Alam, **Nusrat Subhan** (2024) Evaluation of the modulating effect of epidermal growth factor receptor inhibitor cetuximab in carbon-tetrachloride induce hepatic fibrosis in rats, *Biochemistry and Biophysics Reports* (Accepted).
15. Tammana Tabassum Eysha Chisty, Sumaia Sarif, Ishrat Jahan, Iffat Nowshin Ismail, Faizul Islam Chowdhury, Shahnaz Siddiqua, Tahmina Yasmin, Md Nurul Islam, Ferdous Khan, **Nusrat Subhan**, Md. Ashraful Alam, (2024) Protective effects of l-carnitine on isoprenaline -induced heart and kidney dysfunctions: modulation of inflammation and oxidative stress-related gene expression in rats. *Heliyon*, 10 (3), e25057.
16. Fariha Kabir, Kamrun Nahar, Samia Hussain, Tahmina Yasmin, Nasrin Akhter, M. Nurul Islam, Md Mizanur Rahman, Hemayet Hossain, Md. Areeful Haque, Md Ashraful Alam, **Nusrat Subhan** (2024) Pomegranate fruit peel extract improves cardiac functions via suppressing oxidative stress, fibrosis,

and myocardial infarction in Long-Evans rats. **J Adv Biotechnol Exp Ther.** 7(1): 190-204.

YEAR-2023

17. Mirza Alimullah, Nishad Anjum, Md Junaid Rahman, Khondoker Shahin Ahmed, Hemayet Hossain, Md Ashraful Alam, **Nusrat Subhan** (2023) Identification of polyphenols and evaluation of antioxidant and α -amylase inhibitory activity of wheat bran extracts, *Journal of Biosciences and Experimental Pharmacology* 2023, 1, 91-114.
18. Ishrat Jahan, Proma Saha, Tammana Tabassum Eysha Chisty, Kaniz Fatima Mitu, Faizul Islam Chowdhury, Khondoker Shahin Ahmed, Hemayet Hossain, Ferdous Khan, **Nusrat Subhan**, Md. Ashraful Alam, Crataeva nurvala bark (Capparidaceae) extract modulates oxidative stress related genes expression, restored antioxidant enzymes and prevents oxidative stress in the kidney and heart of 2K1C rats, *Evidence Based Complementary and Alternative Medicine*, Volume 2023, Article ID 4720727. <https://doi.org/10.1155/2023/4720727>.
19. Ishrat Jahan, Md. Didarul Islam, Sumaia Sarif, Israt Jahan Amena, Asif Ul Haque Shuvo, Noushin Akter, Faizul Islam Chowdhury, Raushanara Akter, Iqbal Ahmed, Ferdous Khan, **Nusrat Subhan**, and Md. Ashraful Alam, Tempol alters antioxidant enzyme function, modulates multiple genes expression, and ameliorates hepatic and renal impairment in carbon tetrachloride (CCl₄) intoxicated rats. *Livers (MDPI)* 2023, 3(1), 105-120.

YEAR-2022

20. Faizul Islam Chowdhury, Tahmina Yasmin, Raushanara Akter, Md Nurul Islam, Mohammed Maksud Hossain, Ferdous Khan, Adil Aldhahrani, Mohamed Mohamed Soliman, Nusrat Subhan, Md. Areeful Haque, Md. Ashraful Alam (2022). Resveratrol treatment modulates several antioxidant and anti-inflammatory genes expression and ameliorated oxidative stress mediated fibrosis in the kidneys of high-fat diet-fed rats. *Saudi Pharmaceutical Journal*. 2022 Oct; 30 (10):1454-1463. doi: 10.1016/j.jsps.2022.07.006. Epub 2022 Jul 25. PMID: 36387333; PMCID: PMC9649349.

YEAR-2021

21. Shariful Islam Nayan, Faizul Islam Chowdhury, Noushin Akter, Md Mizanur Rahman, Saima Selim, Nadia Saffoon, Ferdous Khan, Nusrat Subhan, Maqsd Hossain, K. Shahin Ahmed, Hemayet Hossain, Md Areeful Haque, Md Ashraful Alam (2021). Leaf powder supplementation of *Senna alexandrina* ameliorates oxidative stress, inflammation, and hepatic steatosis in high-fat diet-fed obese rats. *PLOS ONE*. 16(4): e0250261.

<https://doi.org/10.1371/journal.pone.0250261>

YEAR-2020

22. Noushin Akter, Faizul Islam Chowdhury, Saima Selim, Shariful Islam Nayan, Ferdous Khan, **Nusrat Subhan**, Hemayet Hossain, Md Mizanur Rahman, Md. Areeful Haque, Md Ashraful Alam (2020) Polyphenolics in ramontchi protect cardiac tissues via suppressing isoprenaline-induced oxidative stress and inflammatory responses in Long-Evans rats, *Journal of Functional Foods*, Accepted.
23. Raquibul Hasan, Shoumen Lasker, Ahasanul Hasan, Farzana Zerin, Mushfera Zamila, Faisal Parvez, Md. Mizanur Rahman, Ferdous Khanb, **Nusrat Subhan** and Md. Ashraful Alam (2020). Canagliflozin ameliorates renal oxidative stress and inflammation by stimulating AMPK-Akt-eNOS pathway in the isoprenaline-induced oxidative stress model. *Scientific Reports* 10: 14659. doi.org/10.1038/s41598-020-71599-2.
24. Raquibul Hasan, Shoumen Lasker, Ahasanul Hasan, Farzana Zerin, Mushfera Zamila, Faizul Islam Chowdhury, Shariful Islam Nayan, Md. Mizanur Rahman, Ferdous Khan, **Nusrat Subhan** and Md Ashraful Alam (2020). Canagliflozin attenuates isoprenaline-induced cardiac oxidative stress by stimulating multiple antioxidant and anti-inflammatory signaling pathways. *Scientific Reports* 10: 14459, doi.org/10.1038/s41598-020-71449-1.
25. Syed A. Kuddus, Zarin Tasnim, Md. Hasanuzzaman Shohag, Tahmina Yasmin, Md. Sahab Uddin, Muhammad M. Hossain, **Nusrat Subhan**, Md. Ashraful Alam, Ferdous Khan (2020). *Dillenia indica* fruit extract suppressed diet-induced obesity in rat by down-regulating the mRNA level of proadipogenic transcription factors and lipid metabolizing enzymes. *Current Nutrition & Food Science*, DOI : 10.2174/1573401316999200901173319.
26. Fariha Kabir, Kamrun Nahar, Md. Mizanur Rahman, Fariha Mamun, Shoumen Lasker, Ferdous Khan, Tahmina Yasmin, Khondker Ayesha Akter, **Nusrat Subhan** and Md. Ashraful Alam (2020). Etoricoxib treatment prevented body weight gain and ameliorated oxidative stress in liver of high-fat diet fed rats. *Naunyn-Schmiedeberg's Archives of Pharmacology*. 2020: 1 - 15.
27. Md Mizanur Rahman, Khandoker Usran Ferdous, Shraboni Roy, Iffat Ara Nitul, Fariha Mamun, Md Hemayet Hossain, **Nusrat Subhan**, Md Ashraful Alam, Md. Areeful Haque (2020). Polyphenolic compounds of Amla prevents oxidative stress and fibrosis in the kidney and heart of 2K1C rats. *Food Science & Nutrition* 8(7): 3578–3589.
28. Salma Khan, Md. Mizanur Rahman, Fariha Kabir, Kamrun Nahar, Fariha Mamun, Shoumen Lasker, **Nusrat Subhan**, Md. Hemayet Hossain, Lutfun Nahar, Satyajit D. Sarker, Md. Ashraful Alam, Md. Areeful Haque (2020). *Trichosanthes dioica* Roxb. prevents hepatic inflammation and fibrosis in CCl₄-induced ovariectomized rats, *Clinical Nutrition Experimental* 33: 1-17.

29. Fariha Mamun, Mushfera Zamila, Md. Mizanur Rahman, **Nusrat Subhan**, Hemayet Hossain, S. M. Raquibul Hasan, Md. Ashraful Alam, Md. Areeful Haque (2020). Polyphenolic compounds of litchi leaf augment kidney and heart functions in 2K1C rats, *Journal of Functional Food* 64: 103662.
30. Biswajit Sikder, Farzana Akter, Anayt Ulla, **Nusrat Subhan**, Md. Iqbal Ahmed, Md Ashraful Alam (2020). HMG-CoA Reductase Inhibitor, Rosuvastatin, Averted Oxidative Stress, Inflammation and Fibrosis in Liver of Carbon Tetrachloride-Induced Rats, *Journal of Advanced Biotechnology and Experimental Therapeutics* 3(1): 01-08.

YEAR-2019

31. Lasker, S., Md. Mizanur Rahman, Parvez, F., Zamila, M., Pintu Miah, Nahar, K., Kabir, F., Sharmin, S. B., **Subhan, N.**, Ahsan, G. U., & Md. Ashraful Alam, M. A. (2019). High-fat diet-induced metabolic syndrome and oxidative stress in obese rats are ameliorated by yogurt supplementation. *Scientific Reports*. 9, 20026.
32. Md. Abdullah Al Mamun, Md. Faruk, Md. Mizanur Rahman, Kamrun Nahar, Fariha Kabir, Md Ashraful Alam, and **Nusrat Subhan** (2019). High carbohydrate high fat diet induced hepatic steatosis and dyslipidemia were ameliorated by *Psidium guajava* leaf powder supplementation in rats. *Evidence-Based Complementary and Alternative Medicine*. Vol.2019: 1-12.
33. Farzana Akther Sumi, Biswajit Sikder, Md Mizanur Rahman, Shamshad Rahman Lubna, Anayt Ulla, Md Hemayet Hossain, Ismet Ara Jahan, Md Ashraful Alam, and **Nusrat Subhan** (2019). Phenolic content analysis in *Aloe vera* gel and evaluation of the effect of aloe gel supplementation on oxidative stress and fibrosis in isoproterenol-administered cardiac damage in rats. *Preventive Nutrition and Food Science* (Accepted).
34. Fariha Kabir, Kamrun Nahar, Md Mizanur Rahman, Md. Abdullah Al Mamun, Md. Faruk, Hasan Mahmud Reza, Hemayet Hossain, **Nusrat Subhan**, Md Ashraful Alam (2019). Beetroot powder supplementation prevents oxidative stress and inflammatory cells infiltration in isoprenaline-induced myocardial damage in rats. *Mediterranean Journal of Nutrition and Metabolism*. 12(2):197-209.
35. Anayt Ulla, Md Ashraful Alam, Mosfiqur Rahman, D M Isha Olive Khan, Biswajit Sikder, Monirul Islam, Tarikur Rahman, Nilima Rahman, Hasan Mahmud Reza, Preeti Jain, **Nusrat Subhan** (accepted 2018), **Published: 25 February 2019**. Supplementation of *Citrus maxima* fruits peel powder improves glucose intolerance and prevents oxidative stress in liver of alloxan-induced diabetic rats. *Mediterranean Journal of Nutrition and Metabolism*. 12 (1): 33-44.

YEAR-2018

36. Kamrun Nahar, Fariha Kabir, Priota Islam, Md. Mizanur Rahman, Abdullah Al Mamun, Md. Faruk, **Nusrat Subhan**, Rahman G. M. Sayedur Rahman, Hasan Mahmud Reza, Md. Ashraful Alam. (2018). Cardioprotective effect of *Amaranthus tricolor* extract in isoprenaline induced myocardial damage in ovariectomized rats. *Biomedicine & Pharmacotherapy*. 27(103):1154-1162.
37. Mohammad Nazmul Alam, Md. Murad Hossain, Md. Mizanur Rahman, **Nusrat Subhan**, Md. Abdullah Al Mamun, Anayt Ulla, Hasan Mahmud Reza, Md. Ashraful Alam (2018). Astaxanthin prevented oxidative stress in heart and kidneys of isoproterenol-administered aged rats. *Journal of Dietary Supplements* 10:1-13.
38. Tanjima Rahman Prianka, **Nusrat Subhan**, Hasan Mahmud Reza, Md. Khalid Hosain, Md. Aminur Rahmanc, Haeshin Leed, Shazid Md. Sharkar (2018). Recent exploration of bio-mimetic nanomaterial for potential biomedical applications. *Materials Science and Engineering C*. 93 (2018): 1104–1115.

YEAR-2017

39. Md Mizanur Rahman, Awale Yousuf Muse, D.M. Isha Olive Khan, Ismaile Hussein Ahmed, **Nusrat Subhan**, Hasan Mahmud Reza, Md Ashraful Alam, Lutfun Nahar, Satyajit Dey Sarker (2017). Apocynin prevented inflammation and oxidative stress in carbon tetra chloride induced hepatic dysfunction in rats. *Biomedicine & Pharmacotherapy*. 27;92:421-428.
40. Anayt Ulla, Md Ashraful Alam, Biswajit Sikder, Farzana Akter Sumi, Md Mizanur Rahman, Zaki Farhad Habib, Mostafe Khalid Mohammed, **Nusrat Subhan**, Hemayet Hossain, Hasan Mahmud Reza (2017). Supplementation of *Syzygium cumini* seed powder prevented obesity, glucose intolerance, hyperlipidemia and oxidative stress in high carbohydrate high fat diet induced obese rats. *BMC Complementary and Alternative Medicine*. 17(1):289.
41. Md Mizanur Rahman, Mohammad Nazmul Alam, Anayt Ulla, Farzana Akther Sumi, **Nusrat Subhan**, Trisha Khan, Biswajit Sikder, Hemayet Hossain, Hasan Mahmud Reza, Md Ashraful Alam (2017) Cardamom powder supplementation prevents obesity, improves glucose intolerance, inflammation and oxidative stress in liver of high carbohydrate high fat diet induced obese rats. *Lipids in Health and Disease*. 16(1):151
42. Anayt Ulla, Md Tariqur Rahman, Zaki Farhad Habib, Md. Moshfequr Rahman, **Nusrat Subhan**, Biswajit Sikder, Hasan Mahmud Reza, Md Hemayet Hossain, Md Ashraful Alam (2016). Mango peel powder supplementation prevents oxidative stress, inflammation and fibrosis in carbon tetrachloride induced hepatic dysfunction in rats, *Journal of Food Biochemistry*.

YEAR-2016

43. Anxy Lim, **Nusrat Subhan**, Jalal A. Jazayeri, George John, Thiru Vanniasinkam and Hassan K. Obied (2016). Plant Phenols as Antibiotic Boosters: *In vitro* Interaction of Olive Leaf Phenols with Ampicillin. *Phytotherapy Research*. 30(3):503-9.

YEAR-2015

44. Md Ashraful Alam, Riaz Uddin, **Nusrat Subhan**, Md Mahbubur Rahman, Preeti Jain and Hasan Mahmud Reza (2015) Beneficial role of Bitter melon supplementation on obesity and related complications in metabolic syndrome, *Journal of Lipids*, Article ID 496169, 18 pages, 2015.

YEAR-2014

45. Nadia Saffoon, Riaz Uddin, **Nusrat Subhan**, Hemayet Hossain, Hasan Mahmud Reza, Md. Ashraful Alam (2014). *In vitro* anti-oxidant activity and HPLC-DAD system based phenolic content analysis of Codiaeum variegatum found in Bangladesh Advanced *Pharmaceutical Bulletin*. 4(Suppl 2), 533-541.
46. Riaz Uddin, Moni Rani Saha, **Nusrat Subhan**, Hemayet Hossain, Ismet Ara Jahan, Raushanara Akter, Md. Ashraful Alam (2014). HPLC-analysis of polyphenolic compounds in Gardenia jasminoides and determination of antioxidant activity by using free radical scavenging assays. *Advanced Pharmaceutical Bulletin*. 4(3):273-81.

YEAR-2009

47. **Nusrat Subhan**; Md. Ashraful Alam; S.M. Raquibul Hasan; Md. Mokarram Hossain; Raushanara Akter, Muntasir Mamun Majumder, Md. Mostafizur Rahman; Kamaluddin Ahmed; Abdul Ghani (2009). Antinociceptive and Gastro-protective Effect of the Ethanolic Extract of the Flowering Top of *Anthocephalus cadamba* Roxb. *Oriental Pharmacy and Experimental Medicine*. 9 (4): 326-334.
48. **Nusrat Subhan**, Md. Ashraful Alam, Firoj Ahmed, Israt Jahan Shahid, Lutfun Nahar, Satyajit Dey Sarker (2009). Bioactivity of *Excoecaria agallocha*. *Brazilian Journal of Pharmacognosy* 18(4): 521-526.
49. Md. Ashraful Alam; Md. Abdul Awal; **Nusrat Subhan**; Mahbub Mostofa (2009). *In-vitro* relationship between protein binding and free drug concentrations of a water-soluble selective β -adrenoreceptor antagonists (atenolol) and its interaction with arsenic. *Journal of Health Population and Nutrition* 27(1):20-30.
50. Md. Ashraful Alam; **Nusrat Subhan**; Md. Abdul Awal; Alam, Md. Mahmudul Hasan Sikder; Lutfun Nahar and Satyajit Dey Sarker (2009).

Antinociceptive and anti-inflammatory properties of *Ruellia tuberosa*, *Pharmaceutical Biology*. 47(3): 209–214.

51. Md. Ashraful Alam; Md. Mostafizur Rahman; **Nusrat Subhan**; Md. Muntasir Majumder; S. M. Raquibul Hasan; Raushanara Akter, Md. Ehsanul Haque Mazumder; ABM Faruque (2009). Antioxidant potential of the ethanolic crude extract of the leaves of *Vitex negundo* Linn. (*Verbenaceae*). *Turkish Journal of Pharmaceutical Sciences*. 6 (1), 11-20.

YEAR-2008

52. Md. Ashraful Alam, Raushanara Akter, **Nusrat Subhan**, Md. Mostafizur Rahman, Muntasir M. Majumder, Lutfun Nahar, Satyajit Dey. Sarker, (2008). Antidiarrhoeal property of the hydroethanolic extract of the flowering tops of *Anthocephalus cadamba*. *Brazilian Journal of Pharmacognosy*, 18(2): 155-159.
53. Md. Ashraful Alam; Md. Abdul Awal; **Nusrat Subhan**; Md. Mahmudul Hasan Sikder; S. M. Mahbubul Alam; Mahbub Mostofa; Saikh Jamal Uddin (2008) Studies of in-vitro amlodipine and arsenic displacement interaction at binding sites of bovine serum albumin. *Iranian journal of Pharmacology and Therapeutics* 7(1):1-8.
54. **Nusrat Subhan**; Md. Ashraful Alam; Firoj Ahmed; Md. Abdul Awal; Lutfun Nahar and Satyajit Dey Sarker (2008). *In vitro* antioxidant property of the extract of *Excoecaria agallocha* (Euphorbiaceae). *DARU* 16(3): 149-154.
55. **Nusrat Subhan**; Md. Ashraful Alam; Firoj Ahmed; Ishrat Zahan Shahid. (2008). Antinociceptive and gastroprotective effect of the crude ethanolic extracts of *Excoecaria agallocha*. *Turkish Journal of Pharmaceutical Sciences*. 5(3) 143-154.
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57. Md. Ashraful Alam; **Nusrat Subhan**; Md. Abdul Awal; M. S. Alam; Kazi Akramuddaula Daulla (2008). Anti-inflammatory and anti-nociceptive action of the crude extracts of *Costus speciosus* on rodents, *Oriental Pharmacy and Experimental Medicine*. 8(3):243-251.

YEAR-2007

58. Md Ashraful Alam; Md. Abdul Awal; Mahbub Mostofa; **Nusrat Subhan**; Md. Kamrul Islam; (2007). *In-vitro* displacement interaction of atenolol and

amlodipine on binding with bovine serum albumin when co-administered. *Bangladesh Journal of Pharmacology*. 2(10):20-26.

59. Md. Ashraful Alam; M. Abdul Awal; **Nusrat Subhan**; Kazi Akramuddaula Daulla (2007). Sedative, neuropharmacological and antinociceptive effect of the crude extract of *Xylocarpus granatum* stem barks. *Nigerian Journal of Natural Products and Medicine*. 11: 53-57.
60. Md. Ashraful Alam, **Nusrat Subhan**, Sadia A. Chowdhury, Md. Abdul Awal, Mahbub Mostofa, Mohammad A. Rashid, Choudhury M. Hasan, Lutfun Nahar, Satyajit Dey Sarker (2010). *Anthocephalus cadamba* (Roxb.) Miq. Rubiaceae, extract shows hypoglycemic effect and eases oxidative stress in alloxan-induced diabetic rats. *Brazilian Journal of Pharmacognosy*. 21(1): 155-164.

PRESENTATION & PROCEEDINGS

- 1) **Subhan Nusrat**, Obied K. Hassan, Alam Md. Ashraful (2019). Finger print and the quantification of Australian purified *Acacia pycnantha* leaf extract using both HPLC-DAD and LC-DAD-ESI-MS with their promising anti-diabetic nutraceutical. 6th International Conference on Natural Sciences and Technology (ICNST). 29 to 30th March, 2019, Asian University for Women, Chittagong, Bangladesh.
- 2) **Nusrat Subhan**, Hassan K. Obied, Philip G. Kerr, Geoffrey Burrows (2018). Phenolic profile of the national emblem of Australia (*Acacia pycnantha*) and its antioxidant activity. 18th International Congress of the International Society for Ethnopharmacology & 5th International Congress of the International Society for Ethnopharmacology, India. 13 to 15th January 2018, Department of Pharmacy, Faculty of Pharmacy, University of Dhaka, Bangladesh.
- 3) **Nusrat Subhan**, Hassan K. Obied, Philip G. Kerr, Geoffrey Burrows (2015). Phenolic profiling of five Australian *Acacia* species using LC-DAD-ESI-MS along with online free radical scavenging activity. Natural products chemistry group, annual one day symposium, Royal Australia Chemical Institute (RACI), NSW, Australia. Page30, 2nd October, 2015.

- 4) **Nusrat Subhan**, Hassan K. Obied, Philip G. Kerr, Geoffrey Burrows (2014). Antioxidant, anti-diabetic and neuroprotective activities of four Australian *Acacia*. Natural products chemistry group, annual one day symposium, Royal Australia Chemical Institute (RACI), NSW, Australia. Page8, 3rd October, 2014.

PROFESSIONAL MEMBERSHIP

1. Member of Bangladesh Pharmacy Council.
2. Graham Centre for agriculture innovation from 2013 to 2015.

EXPERTISE

3. High performance liquid chromatography (HPLC) operating, data collection and analysis.
4. To operate, data collection and analysis of liquid chromatography triple quadrupole mass spectrometer (LC-QQQ- MS).
5. To operate, data collection and analysis of Ultra performance liquid chromatography (UHPLC).
6. Data collection and analysis of liquid chromatography time of flight (LC-QToF).
7. *In-vitro* antioxidant assays for natural compound such as ABTS, FRAP, DPPH, superoxide and hydrogen peroxide scavenging.
8. *In-vitro* antidiabetic assays for natural compound.
9. *In-vitro* neuroprotective assays for natural compound.
10. Cell culture, MTT assay.
11. Statistics software, Prism, SPSS.

REVIEW REQUEST PERFORMED FOR

1. PLOS ONE journal.
2. Oxidative Medicine and Cellular Longevity.

LANGUAGE PROFICIENCY

- 1) Bengali- Excellent in speaking, reading and writing.
- 2) English as Foreign Language, Exam date-30-07-2011
IELTS- 6.5 average
Listening- 7; Reading-6; Writing-6 and Speaking-6

RESEARCH TRAINING

- 1) High performance liquid chromatography (HPLC) operating, data collection and analysis training at CSU, Australia.
- 2) Liquid chromatography triple quadrupole mass spectrometer (LC-QQQ-MS) machine operating training at CSU, Australia.
- 3) To operate, data collection and analysis of Ultra performance liquid chromatography (UHPLC) machine operating training at CSU, Australia.
- 4) Data collection and analysis of liquid chromatography time of flight (LC-QToF) machine operating training at CSU, Australia.
- 5) Cell culture training at CSU, Australia.
- 6) PC2 laboratory training at Charles Sturt University, NSW, Australia.
- 7) Small animal handling at Khulna University, Khulna.
- 8) COMPUTER LITERACY: MS Word, MS Excel, MS PowerPoint, Internet Browsing and Mailing, SPSS 20 for Statistics, Prism for statistics etc.

INDUSTRIAL TRAINING

- 1) Four weeks Industrial Training in Pharmaceutical Manufacturing Plant “Beximco pharmaceuticals Ltd. Bangladesh”.

PERSONAL DETAILS

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I hereby declare that with my best knowledge and belief, all the information given here is true.

Sincerely
Nusrat Subhan

REFEREES

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