

Curriculum Vitae

Name: Dr Mohammad Shoeb

Position: Professor

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Previous Employment

Associate Professor:2009-2013

Assistant Professor: 2006-2009

Lecturer: 2000-2006

Scientific Officer at Bangladesh Council of Scientific and Industrial Research (BCSIR) (1998-2000).

Academic qualifications

- PhD in Chemistry, The School of Pharmacy, The Robert Gordon University, **UK (15 Dec 2005)**
- MSc in Chemistry (Natural Products Chemistry), University of Aberdeen, **UK (2003)**
- MSc in Organic Chemistry (Natural Products Chemistry), University of Dhaka, **Bangladesh (1997)**
- BSc (Hons) in Chemistry, University of Dhaka, **Bangladesh (1995)**

Post Doc: Linkoping Univ, Sweden on Environmental Chemistry and Sustainable Development (October 2014-September 2015)

University of Aberdeen on marine bio-diversity (October –December 2012).

Current role: As a Professor my role is teaching and research on areas: Organic Chemistry, Natural Products Chemistry, Analytical Chemistry, Chemical Contaminants in Food and Environmental, Plastic Pollution, Microplastic, Water Quality Measurement in Marine Environment, supervising PhD, M.Phil. and MS students, and contributing academic decision in the department and the university.

Role in International Body:

I am working as a member in the SETAC Asia-Pacific Board of Directors (<https://www.setac.org/page/SAPAbout>). The Society of Environmental Toxicology and Chemistry (SETAC) is an international environmental toxicology and environmental

chemistry organization. SETAC promotes environmental sciences through conducting meetings, workshops, and symposia; bestowing awards recognizing for excellence; promoting education in the field by organizing training courses and supporting students; and through its publication program. It holds meetings and events around the world. As a member in the board I contribute for decision making about different activities.

I am also working as a Deputy Leader of Asian Network on Food and Environment Contaminants (ANFEC). My role is planning for research activities and future goal, organizing meeting, seminar workshop and training events among participating countries of Bangladesh, Cambodia and Laos.

I am also Project Manager of ENHANCE in the University of Dhaka. ENHANCE (ENabling Humanitarian Attributes for Nurturing Community based Engineering) aims nurturing humanitarian attributes through engineering education for serving unsupported communities effectively and responsibly, in identifying problems and defining sustainable solutions. The ENHANCE project consortium consists of nine partner organizations from five countries. As a manager, I arrange all activities in Bangladesh and coordinate with all other members of other countries. (<https://warwick.ac.uk/fac/sci/eng/enhance/aboutus/>).

I am an alumnus of Commonwealth Scholarship Commission (CSC). As an alumnus I receive invitation about different events of CSC and try to promote their activities in Bangladesh. I organized one event on study in UK.

Research Leadership

I am a group leader of Research group consisting of 35 members including faculty members, Post Doc, Ph.D, M.Phil. MS. BS (4th year projects students), Research assistants, Research Fellow and visiting fellow. I have dynamic leadership capability for motivating and managing research team, organizing and managing events, planning for research and applying for research grants. I have strong collaboration with local and International scientific community. I keep records of all our activities and improve for sustainability.

Involvement with research projects:

- 1) Acting as a **Leader** of IPICS supported research project in Bangladesh, “Studies of Organic Pollutants in Food and Envirn., **BAN:04 since 2015.**
- 2) Acted as a **Deputy Leader** of World Bank supported and University Grant Commission, Bangladesh coordinated HEQEP project “**Chemical Contaminants in Food and their Effect on Human Health,**
- 3) Acted as **Project Leader** of IFS supported research project “Isolation of biologically active secondary metabolites from endophytic fungus”,

- 4) **Project Leader** of research project “Anticancer drugs from endophytic fungus” supported by Ministry of Education, Government of Bangladesh
- 5) **Project Leader** of research project “Marine microplastic in the Sundarban” supported by Ministry of Science and Technology, Government of Bangladesh
- 6) Co-applicant of International Project from Swedish Research Link (SRL) “Marine debris and microplastic in the Sundarban”
- 7) Completed several small projects as **Principal Investigator** supported from University.

Networking activity

Working as a Head of Swedish Institute Regional Network “Sweden Alumni Network in Bangladesh”

Working as Convener of Chemistry Olympiad in Bangladesh where 10,000 students participants

Working as a member from inception of IPICS supported Network ANFEC (Asian Network of Research on Food and Environment Contaminants) and playing active role for different activities

Member of IPICS supported Network NITUB (Network of Instrument Technical Personnel and User scientists in Bangladesh) and playing active role in different events

Member of IPICS supported Network ANRAP (Asian Network of Research on Anti-diabetic Plants)

Participated OPCW supported meeting of Networking in Qatar and China.

Membership: Affiliated Member of IUPAC, The Royal Australian Chemical Institute, The Phytochemical Society of Europe, Bangladesh Chemical Society (LF-1074)-National Adhering organization of IUPAC, Member NITUB.

Award received

- Swedish Institute Guest Researcher Award 2014 for Post Doctoral work
- Common Wealth Academic Staff Fellowship UK Award 2012 for Post Doctoral work
- Young Scholar Award 2010 from American Chemical Society to attend Pacificchem congress 2010, 15-20 Honolulu, Hawaii, US
- IUPAC Young Chemist Award 2009 to attend 42nd IUPAC Congress, August, Glasgow, UK
- IUPAC Young Chemist Award 2007 to attend 41st IUPAC Congress, August,

Italy

- Phytochemical Society of Europe travel grant to attend a conference in Poland, 2004
- The Robert Gordon University Award for PhD Research, UK (2000-2005)
- Science and Technology HRD Award, Ministry of Science & Technology, Government of Bangladesh, 2001
- UNESCO travel grant to visit Karachi, Pakistan, 2001

Courses/workshop attended:

- General Awareness on Hazardous Chemicals, Bangladesh National Authority for chemical Weapons Convention (BNACWC), Dhaka, Bangladesh, 27 July, 2011.
- OPCW Workshop on Article X1, The Hague, The Netherlands 24-25 November 2010.
- Analytical Skill Development Course, DELFT, The Netherlands, July, 2007 organized by OPCW
- Course of the enhancement of laboratory skills in using LCMS to analyse Chemicals related to the chemicals weapons convention, Finland, March, 2007 organized by OPCW
- BAS-INASP Author AID Research Writing Skills Workshop, Bangladesh, May, 2009
- Workshop on Chemical Hazards and Safety organized by Bangladesh Chemical Society, Bangladesh, August, 2008
- Attended Pesticides workshop in Saskatoon, Canada, June, 2007
- Off-Licence Certificate (ServeWisePlus) Course by ServeWise and Scottish Qualification Authority, UK, December, 2005
- Research Method Course, Teaching and Demonstrating, RGU, UK, April, 2004
- HEJ-COMSAT Workshop on the use of Spectroscopy Techniques in Structural Organic Chemistry, Karachi, Pakistan, Feb. 14-21, 2000
- Regional Training Program on Spectroscopy, ITT Madras, India, Jan. 01-13, 2001.

Research Activities:

i) Experiences:

Major skills are described below:

- Well trained in extraction of plant materials, marine organisms and cyanobacteria, endophytic fungi and environmental samples
- Separation of extract using different types of chromatographic techniques e.g. normal and reversed phase column, TLC, VLC prep-TLC and HPLC
- Trained in spectroscopy e.g. 1D and 2D NMR, UV, IR and mass spectroscopy
- Trained in LC, LC-MS, LC-MS/MS, GC, GC-MS, ICP-MS and other analytical techniques

Country visited: Australia, Austria, Belgium, Canada, Cambodia, China, Greece, France, Finland, Germany, Laos, Malaysia, Nepal, India, Italy, Pakistan, Poland, Qatar, South Korea, Singapore, Switzerland, Tanzania, Sweden, Thailand, The Netherlands, Turkey, UK, United Arab Emirates, USA, Latvia.

Publications (Mohammad Shoeb): 110

(1.1) Mohammad Shoeb and Mithila Farzana Mumu, Rohingya Refugee Crisis in Cox's Bazar: A Great Humanitarian Challenges in Modern Challenges and Approach to Humanitarian Engineering edited by Koumpouros, Yiannis, Georgoulas, Angelos, Kremmyda, Georgia, IGI Global Publishers, p 125-133, 2022. (Book Chapter)

(1.2) Tasnim Ahmed, Rafiza Islam, Nargis Parvin, Mohammad Shoeb, Determination of age-dependent endogenous indole-3 acetic acid (IAA) level in different organs of tomato plants, Current Research on Biosciences and Biotechnology 3 (2) 2022 202-207, DOI: 10.5614/crbb.2022.3.2/WFP0HMM1

(1.3) Mohammad Shoeb, Md. Mafizul Islam, Md. Shahed Reza, Nilufar Nahar, Md. Mazharul Islam, HPLC analysis of artificial preservatives, stimulants and sweeteners in carbonated beverages in Bangladesh, Current Research on Biosciences and Biotechnology 3 (2) 2022 215-221, DOI:10.5614/crbb.2022.3.2/2V2BWDB5

(1.4) Nargis Parvin, Mohammad Shoeb, Nilufar Nahar, Rafiza Islam, Investigation of tetracycline residues in poultry meat samples from Dhaka city by high-performance liquid chromatography, Current Research on Biosciences and Biotechnology 3 (2) 2022 227-232, DOI:10.5614/crbb.2022.3.2/P89JJ95N

(1.5) Mou S A, Islam R, **Shoeb M**, Nahar N Determination of Chloramphenicol in Meat Samples using Liquid Chromatography Tandem Mass Spectrometry, 2021, 00, 1-16. <https://doi.org/10.1002/fsn3.2530>

(1.6) Sharmin Shahjahan, Fouzia Ahmed Anny, **Mohammad Shoeb**, Md. Mizanur Rhaman, Md. Mazharul Islam, Md. Iqbal Rouf Mamun, Assessment of quality of paracetamol and ranitidine drugs by spectroscopic studies, 2021, Asian Journal of Pharmacognosy 5(3): 72-79.

(1.7) Islam T, **Shoeb M**, Islam M N, Islam R, Rahman M M, N Nahar, Proximate analysis and nutrient content estimation of marine fish species of saint martin's island in Bangladesh. Journal of Bangladesh Academy of Science, 2020, 44(2); 191-195, <https://doi.org/10.3329/jbas.v44i2.51462>

(1.8) Islam M M, Bhuiyan M H S S, Islam R, **Shoeb M**, Mamun M. I. R and Rahman M H

Physicochemical Properties and Metal Ions in Water and Sediment of the Dhaleshwari River. Dhaka University Journal Science, 2021, 69(1): 37-42, <https://doi.org/10.3329/dujs.v69i1.54622>

(1.9) **Shoeb M**, Alam M F, Islam M M, Parvin N, Islam M N and Mamun M. I. R Assessment of Quality of Azithromycin, a Macrolide Antibiotic by NMR Spectroscopy. Bangladesh Pharmaceutical Journal, 2021, 24(1): 37-44, <https://doi.org/10.3329/bpj.v24i1.51634>

(2.0) Nesa F, **Shoeb M**, Islam M M and Islam M N Studies of Physico-chemical Properties and Cytotoxicity of Fruits of *Syzygium jambos* L. against HeLa and Vero Cell Lines. Bangladesh Pharmaceutical Journal, 2021, 24(2): 111-116, <https://doi.org/10.3329/bpj.v24i2.54709>

(2.1) Tasnim T K, Akter S, **Shoeb M** and Farha W. Fatty Acids Composition and Heavy Metals in Marine Fish Samples from the South-Eastern Part of Bangladesh. Organic Chemistry Plus, 2020, 1(2): 46-51, <https://doi.org/10.37256/ocp.122020457>

(2.2) Hossain M. S, Hasan M.K, **Shoeb M**, Mamun M. I. R, Nahar N, Ali L, Mosihuzzaman M, Rokeya B, and Chaudhury H.S, Antidiabetic Activity of *Momordica charantia* L. and Mechanism of Insulin Secretion of 1-Butanol Soluble, Dhaka University Journal of Pharmaceutical Science, 2020, **19** (2): 00-00

(3) Leung K M Y, Yeung KWY, **Shoeb M** and BrooksB W. Critical Review Toward Sustainable Environmental Quality: Priority Research Questions for Asia. Environmental Toxicology and Chemistry, 2020, 39(8): 1485–1505, DOI: 10.1002/etc.4788

(4) **ShoebM**, Sultana S, JahanN, NaharN and FarhaW. Phytochemical screenings, physicochemical properties and effects of pesticides on vegetables, Asian Journal of Pharmacognosy, 2020, 4 (2), 25-42.

(5) Nandi P, Islam Md. M, Sultana A and **Shoeb M**. Physicochemical Properties and Pesticide Residues in Okra Fruits (*Abelmoschus esculentus* L.), Dhaka University Journal of Sciences, 2020, 68, (2): 1-6.

(6) IslamT, KhandakarA H, HasanM K, **ShoebM** and NaharN. Development of An Easy, Quick, Cheap Method To Analyze Red Dyes In Watermelon For Consumer's Safety. Journal of Bangladesh Chemical Society, 2019, 31(2): 34-39.

(7) Rhaman M, Islam N and **Shoeb M**. Bioactivity of *Peperomia Pellucida* Leaves from Bangladesh. American Journal of Biomedical Science & Research, 2019, 6(1), 1-3. DOI:10.34297/AJBSR.2019.06.000981.

(8) SultanaA, **Shoeb M**, MamunI and NaharN. **Carbofuran Residues in Commercial Turmeric Powder.** *Journal of Bangladesh Chemical Society*, 2019, 31(2): 8-14.

- (9) SaroarF, **Shoeb M**, IslamM N, RhamanM M, Islam R andParvinN. Studies of Marine Seaweed *Sargassumflavicans*. Asian Journal of Pharmacognosy, 2019, 4(1): 52-58
- (10) AhmedE, **Shoeb M**,RhamanM M, IslamM N, IslamR and NaharN. Chemical and Biological Activity Studies of Enteromorphaflexuosa. *Journal of Bangladesh Chemical Society*, 2019, 31(2):21-27.
- (11) AhmedT, **Shoeb M**, IslamM N, RhamanMM, AhmedE, NaharN. Secondary metabolites from the leave extracts of *Morus alba* L. Asian Journal of Pharmacognosy, 2019, 3(4): 36 – 41
- (12) ApurbaR H, AhmedK H, **Shoeb M**and Islam M M. Fatty acid compositions in marine fish samples from Kuakata sea beach. *Journal of Bangladesh Chemical Society*, 2019, 31(1): 40-45
- (13) AnderssonA, AshiqM J, **ShoebM**, KarlssonS, BastvikenD, KylinH, Evaluating gas chromatography with a halogen-specific detectorfor the determination of disinfection by-products in drinking water, *Environmental Science and Pollution* (2019), 26, 7305-7314.
- (14)MuniaZS, **ShoebM**, MamunM I R, NaharN, Dissipation pattern of quinalphos in cauliflower, tomato and bean samples, *Journal of Consumer Protection and Food Safety*, (2018), 3 (1), 63-67.
- (15) Mustafa T, Naser M. N, Latifa G A, **Shoeb M** and Nahar N, Organochlorine Pesticide Residue in Fishes and Shell Fishes of The Flood Plants of SonargaonUpazilla, Bangladesh, *Bangladesh J. Zool*, 47(1) 137-148., DOI: <https://doi.org/10.3329/bjz.v47i1.42029>
- (16) Islam M, Shoeb M, Islam R, and Nahar N, Heavy Metals Contamination in Marine Fish Samples of Bangladesh. *Journal of Food & Nutritional Sciences*, 2018, 1(1): 4-11.
- (17) Islam R, Islam M, Shoeb M and and Nahar N, Fatty Acid Compositions in Marine Fish Samples of Bangladesh. *Journal of Food & Nutritional Sciences*, 2018, 8: 723. doi: 10.4172/2155-9600.1000723.
- (18) BhuyianS I, Ahmed T, HasanM K, **Shoeb M**and NaharN. Spectrophotometric Analysis of Preservatives and Coloring Agents in Orange Soft Drink and Orange Juice Samples. *Dhaka Univ. J. Sci.*, (2018), 66(2): 135-137.
- (19) HossainM S, HasanM K, **Shoeb M**, MamunM I R, NaharNand MosihuzzamanM. Isolation and Characterization of Two Cucurbitane Type TriterpenoidGlycoside from 1-Butanol Soluble Part of *Momordicacharantia* Fruit Pulp Juice. *Dhaka Univ. J. Sci.*, (2018), 66(2): 145-149.

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- (23)**HasanMK**, Khan A H, Sultana A, Shoeb M and Nahar N. Evaluation of Diclofenac by UV-Vis Spectrophotometer in some locally produced Tablets. *Dhaka University Journal of Science*, 2017, 65(2), 163-166.
- (24)**ShoebM**, MondalP, KylinHand NaharN, Chemical and Biological Activity of Mushrooms Naturally Occurring in Bangladesh, *The Asian Journal of Pharmacognosy*, 2017, 1 (3):42-51.
- (25)**Shoeb M**, AlMamun M S, Noor R E, Al Mahmud N M, MamunM I R, and Nahar N, Residual DDTs and fatty acid compositions in popular two fish samples, *Dhaka Univ. J. of Sci.*, **2017**, 65 (1) 77-80.
- (26) Mou S A, Akther T, **Shoeb M**, Sultana A and Nahar N, Studies of preservative and coloring agent in jam and jelly, *Dhaka Univ. J. of Sci.*, **2017**, 65 (1) 83-84.
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- (28) Sultana A,SakibM. A. H, KibriaM. G, IslamM. R, **Shoeb M**and NaharN, An easy and cheaper method to assay paracetamol and metronidazole. *J. Bang. Chem. Soc*, **2016**, 28 (1 & 2): 5-11.
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- (31) **Shoeb M**, Mahim A, Mamun MIR, Nahar N, Organochlorine pesticide residues in poultry meats of Bangladesh *Croatian Journal of Food Science and Technology*.**2016**, 8 (1), 30-33.

- (32) Nahar N, Khan WI and **Shoeb M**, Physico-Chemical Analysis and Composition of Camel Milk of Bangladesh, *J. of Basic & Appl. Sci.*, **2016**,12, 231-235
- (33) Nahar N, Hossain MM, Uddin-Al-Mahmud, M N, **Shoeb M**, Latifa G A and Kabir K H, Dissipation of Cypermethrin in Bean and Cauliflower, *Dhaka Univ. J. Sci*, **2016**, 64(1):89-90
- (34) Sultana A, Islam R, Islam M M, **Shoeb M** and Nahar N, Study of Preservatives and Stimulants in Commercial Soft Drinks, *J. Bangladesh Pharm.Soc.***2016**, 19 (1): 68-74.
- (35) **Shoeb M**, **Khondker M**, **Nahar N**, A new steroidal glycoside from *Coryphaliera Roxb.*, a globally endangered species, *Nat Prod Res.***2016**, 30(3); 281-5.
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