

CURRICULUM VITAE OF PROF. DR. MD.SIRAJUL ISLAM KHAN

1. Personal Informations:

- ❖ Name : Dr. Md. Sirajul Islam Khan
- ❖ Father's Name : Late Abdur Razzak Khan
- ❖ Mother's Name : Mrs. Sakhina Khanam
- ❖ Permanent Address : Village-Ambaria, Post: Sengram, Upazilla-Khoksa, District-Kushtia
- ❖ Mailing Address : Department of Agricultural Chemistry
Sher-e-Bangla Agricultural University (SAU)
Sher-e-Bangla Nagar
Dhaka- 1207, Bangladesh
E-mail: sirajsau@gmail.com
sirajsau@sau.edu.bd
- ❖ Nationality : Bangladeshi by birth
- ❖ Date of Birth : 05-11-1979
- ❖ Marital Status : Married
- ❖ Religion : Islam (Sunni)
- ❖ Contact Number : 01755879437 (Mobile); 02-44814131(Off.)



2. Educational Qualifications:

Degree Obtained	Board/University	Major	Division/Class	Year of Passing
Ph.D.	UGAS, Ehime University, Japan	Plant Biochemistry	Satisfactory	2016
M.S.	Kagawa University, Japan	Agricultural Science	Satisfactory	2013
M.S.	SAU	Agricultural Chemistry	First Class First A+ (4.00 out of 4.00)	2009
B. Sc. Ag. (Hons)	SAU	Agriculture	First Class Second	2003 (Held in 2005)
H.S.C.	Jessore Board	Science	1st Division	1998
S.S.C.	Jessore Board	Science	1st Division with *	1996

3. Language Proficiency:

Language	Very good	Good	Fair	Remarks
English	Very Good	-	-	Medium of instruction in Bachelor and Masters and PhD were English
Bangla	Very good	-	-	Native language
Japanese	-	-	Fair	Passed the Exam. of MS level (Preliminary)

4. Job Description:

Present position: Professor (Grade-2, Scale 8 76,490/-)
Department of Agricultural Chemistry

5. Job Experience: Lecturer-11. 1. 2007 to 14. 9. 2009;
Assistant Professor-14.9.2009 to 10-01-2016
Associate Professor- 11-01-2016 to 10-01-2020
Professor- 11-01-2020 to till date

6. Administrative Experience:

- ❖ Asstt Provost, Begum Fazilatunnessa Mujib Hall, Sher-e-Bangla Agricultural University, Dhaka, (from 2009 to 2010)
- ❖ Chairman, Department of Agricultural Chemistry, Sher-e-Bangla Agricultural University, Dhaka (from 2017 to 2019)
- ❖ Associate Director, Institute of Seed Technology, Sher-e-Bangla Agricultural University, Dhaka (From December 2020 to January 2021)
- ❖ Provost, Nawab Siraj-u-Doula Hall, Sher-e-Bangla Agricultural University, Dhaka (From 25-01-2021 to 29-01-2024)
- ❖ Director, TSC Complex, Sher-e-Bangla Agricultural University, Dhaka (From 29-01-2024 to till date)

7. Research Supervision Experience:

Thirty (36) students as Supervisor and thirty seven (37) students as Co-supervisor in MS level under the Department of Agricultural Chemistry, SAU, Dhaka, Bangladesh

8. Field of Specialization:

- Analytical and environmental chemistry
- Phytotoxins or allelochemicals isolated from plant samples with different column chromatography followed by HPLC
- Water sample analysis from AAS
- Sample preparation techniques
- Fertilizer and plant nutritional chemistry

9. Field of Interest:

- Pesticide residue analysis in vegetables, fruits, fishes, shrimp, tea, tobacco, soil and water etc. with different chromatography
- Development and validation of multi-residue methods for the determination of commonly used pesticides in Bangladesh
- Heavy metals analysis from different agricultural matrix

10. Research Project Experience:

TITLE OF THE PROJECT/ RESEARCH ACTIVITIES	DONOR/ SPONSOR	POSITION IN THE PROJECT	YEAR	
			FROM	TO
1. Determination of pesticide residual effects of different vegetables from Bogra district of Bangladesh	SAURES	Principal Investigator	July 2016 to	June 2017
2. Phytotoxicity of <i>Justicia adhatoda</i> against some selected test plants	SAURES	Principal Investigator	July 2017 to	June 2018
3. Potencies of some selected higher plants in Bangladesh as bio-herbicide for weed control	MoST	Principal Investigator	July 2017 to	June 2018
4. Concentrations of Heavy Metals (Pb and Cd) in Different Winter Vegetables around the Industrial Area of Narsingdi District and Health Risk Assessment	MoST	Principal Investigator	July 2019 to	June 2020

TITLE OF THE PROJECT/ RESEARCH ACTIVITIES	DONOR/ SPONSOR	POSITION IN THE PROJECT	YEAR	
			FROM	TO
5. Potential Health Risk of Heavy Metals via Rice and Irrigated Soils in the Adjacent Areas of Buriganga River	MoST	Principal Investigator	July 2020 to	June 2021
6. Analysis of Pesticide Residues in Country bean and Brinjal Collected from Barishal District of Bangladesh	SAURES	Principal Investigator	July 2020 to	June 2021
7. Quantification of Heavy Metals in Vegetables in Different areas of Bogura District and the Associated Health Risks	SAURES	Principal Investigator	July 2021 to	June 2022
8. Quantitative Analysis of Heavy Metals from Vegetables and Soils in Southern Parts of Bangladesh and the Associated Health Risks	MoST	Principal Investigator	July 2021 to	June 2022
9. Strengthen of Food Safety Analysis Capability at SAU	MoST, Netherlands & WUR	PIC Member	July 2021 to	June 2023
10. Determination, Distribution and Probabilistic Health Risk Assessment of Heavy Metals in Soil, Water and Rice in the Adjacent Areas of Tannery and Textile Mills at Savar and Narayanganj	MoST	Principal Investigator	July 2023 to	June 2024

11. Training:

Different International and National trainings were conducted in different times.

- But present research related special training on “**Pesticide residue analysis in fruits using QuEChERextraction and gas chromatography**” - Conducted By-Pesticide Analytical Laboratory, Bangladesh Agricultural Research Institute, Coordinated By-FAO
- **Environmental Toxicology** training at CRI in Thailand
- **Food Safety TVET Project Skill training in Netherlands, France and Switzerland** Financed by-NL Govt. and WUR
- Different Skill training on Method Validation of Instrumental Analysis at national and international level

12. List of Publications:

1. Md. Shariful Islam, Md. Riaz Mahmud, Md. Sohag Hossain, Mehedi Amin, **Md. Sirajul Islam Khan**, Mohammed Ariful Islam (2024). Effect of Nitrogen and Naphthalene Acetic Acid on Growth, Yield, and Nutrient Content of Stevia (Stevia Rebaudiana Bertoni). Plant Science Today (accepted). <https://doi.org/10.14719/pst.3263>
2. Anika Kabir, Md. Aminur Rahman, Md. Hafezur Rahman, Mohd. Maniruzzaman, S.M. Farhad, Md, Meftaul Islam, **Md. Sirajul Islam Khan**, Md, Zahid Parvez (2023). Okra

- Micro-Cellulose Crystal (MCC) and Micro-Clay Composites for the Remediation of Copper, Nickel, and Dye (Basic Yellow II) from Wastewater. *Reactions* 4: 342-358.
3. Md. Fahad Jubayer, Shahidullah Kaishar, Shoaib Arifin, Aney Parven, **Md. Sirajul Islam Khan**, Md. Meftaul Islam (2023). Nutritional health of the Rohingya refugees in Bangladesh: Conceptualizing a multilevel action framework focusing the COVID-19. *Nutrition and Health* 1-5. <http://dx.doi.org/10.1177/02601060231169372>
 4. Md. Wadud Ahmed, **Md. Sirajul Islam Khan**, Aney Parven, Md. Harunur Rashid, Islam Md. Meftaul (2023). Vitamin-A enriched yogurt through fortification of pumpkin (*Cucurbita maxima*): A potential alternative for preventing blindness in children. *Heliyon* 9(4): e15039. <https://doi.org/10.1016/j.heliyon.2023.e15039>
 5. Md. Wadud Ahmed, Md. Azizul Haque, Md. Mohibullah, **Md. Sirajul Islam Khan**, Mohammed Ariful Islam, Md. Hasan Tarek Mondal, Raju Ahmmmed (2022). A review on active packaging for quality and safety of foods: Current trends, applications, prospects and challenges. *Food Packaging and Shelf Life*. 33 (2022) 100913. DOI: <https://doi.org/10.1016/j.fpsl.2022.100913>
 6. Surovi Kabir, Abdul Kaium, Md. Tazul Islam Chowdhury, Mohammed Ariful Islam, Simana Akter Bhuiya, Md. Wadud Ahmed, Md. Nurul Kadir, Md. Moniruzzaman & **Md. Sirajul Islam Khan** (2022). Environmental pollution, ecological and human health risk assessment of heavy metals in rice farming system near the Buriganga River in Dhaka, Bangladesh. *International Journal of Environmental Analytical Chemistry*, DOI: 10.1080/03067319.2022.2064752.
 7. Farzana Akter Laboni, Md. Wadud Ahmed, Abdul Kaium, Md. Khairul Alam, ney Parven, Md. Fahad Jubayer, Md. Aminur Rahman, Md. Meftaul Islam, **Md. Sirajul Islam Khan** (2021). Heavy Metals in Widely Consumed Vegetables Grown in Industrial Areas of Bangladesh: a Potential Human Health Hazard. *Biological Trace Element Research*, DOI: 10.1007/s12011-022-03179-6.
 8. Sadia Afrin, Md. Khairul Alam, Md. Wadud Ahmed, Aney Parven, Md. Fahad Jubayer, Mallavarapu Megharaj, Md Meftaul Islam & **Md. Sirajul Islam Khan** (2022): Determination and probabilistic health risk assessment of heavy metals in widely consumed market basket fruits from Dhaka city Bangladesh. *International Journal of Environmental Analytical Chemistry*, DOI: 10.1080/03067319.2021.2018578.

9. La' Ali Ahmad al-Subeihi, Abdul Awal, Md. Wadud Ahmed, Maruf Ahmed, Tania Alam, **Md. Sirajul Islam Khan** and Mohammed Ariful Islam (2022). Effects of organic and chemical fertilizers on the content of major phenolic compounds of carrot. *Poll Res.* 41 (1): 347-352.
10. Anisur Rahman, Abdul Kaium, **Md. Sirajul Islam Khan**, Mohammed Ariful Islam, Mohammad Dalower Hossain Prodhon, Noorjahan Begum, Smriti Sultana Binte Mustafiz, and Md.Tazul Islam Chowdhury, (2021). Residue level and health risk assessment of organophosphorus pesticides in country bean and bitter melon collected from Cumilla, Bangladesh. *Food Research*, 5(6): 238 – 246.
11. Umme Salma Nisha, **Md. Sirajul Islam Khan**, Mohammad Dalower Hossain Prodhon, Md. Meftaul Islam, Noorjahan Begum, Aney Parven, Syfullah Shahriar, Abdul Sukur Juraimi, Md. Abdul Hakim (2021). Quantification of Pesticide Residues in Fresh Vegetables Available in Local Markets for Human Consumption and the Associated Health Risks. *Agronomy* 11, 1804. <https://doi.org/10.3390/agronomy11091804>.
12. Aney Parven, **Md. Sirajul Islam Khan**, Mohammad Dalower Hossain Prodhon, Kadiyala Venkateswarlu, Megharaj Mallavarapu, Md. Meftaul Islam (2021). Human health risk assessment through quantitative screening of insecticide residues in two green beans to ensure food safety. *Journal of Food Composition and Analysis*. 103(2021):104121 <https://doi.org/10.1016/j.jfca.2021.104121>.
13. Tanzin Chowdhury, Md. Akhter Hossain Chowdhury, Wang Qingyue, Christian Ebere Enyoh, Weiqian Wang, **Md. Sirajul Islam Khan** (2021). Nutrient uptake and pharmaceutical compounds of *Aloe vera* as influenced by integration of inorganic fertilizer and poultry manure in soil. *Heliyon*. 7(2021):e07464 <https://doi.org/10.1016/j.heliyon.2021.e07464>.
14. Marzia Habib, Abdul Kaium, **Md. Sirajul Islam Khan**, Tazul Islam Chowdhury, MDH Prodhon, Mohammed Ariful Islam (2021). Residue level and health risk assessment of organophosphorus pesticides in eggplant and cauliflower collected from Dhaka city, Bangladesh. *Food Research* 5(3):369-377.
15. **Md. Sirajul Islam Khan**, Abdul Kaium, Bittam Kumar Sarkar, Rokeya Begum, Noorjahan Begum, Mohammed Ariful Islam, Md. Tazul Islam Chowdhury, Marzia Habib and Md. Abdul Hakim (2021). Potencies of *Justicia adhatoda* L. for its possible phytotoxic activity. *Plant Science Today* 8(2): 289-292.

16. Md. Abdul Hakim, Abdul Shukor Juraimi, S. M. Rezaul Karim , **Md. Sirajul Islam Khan**, Mohammad Sohiful Islam, M. Kaium Choudhury, Walid Soufan , Hesham Alharby, Atif Bamagoos , Muhammad Aamir Iqbal, Frantisek Hnilicka , Jan Kubes, Muhammad Habib Ur Rahman, Shah Saud, Mohamed M. Hassan and Ayman EL Sabagh (2021). Effectiveness of Herbicide to Control Rice Weeds in Diverse Saline Environments. *Sustainability* 13: 2053. <https://doi.org/10.3390/su13042053>
17. Tanzin Chowdhury, Md. Akhter Hossain Chowdhury, Md Arifur Rahman, Kamrun Nahar, Md. Tazul Islam Chowdhury and **Md. Sirajul Islam Khan** (2020). Response of *Aloe vera* to inorganic and organic fertilization in relation to leaf biomass yield and post-harvest fertility of soil. *Bulgarian Journal of Agricultural Science* 16(3): 448-456.
18. Mst. Kamrun Nahar, **Md. Sirajul Islam Khan**, Marzia Habib, S.M. Hossain, MDH Prodhan, Mohammed Ariful Islam (2020). Health risk assessment of pesticide residues in vegetables collected from northern part of Bangladesh. *Food Research* 4(6):2281-2288.
19. Must Alima Rahman, Mohammed Ariful Islam, Mohammad Tipu Sultan, Abu Hena Mostofa Kamal, Ruhul Amin Khan, Mohammad Razzak, Md. Tazul Islam Chowdhury, **Md. Sirajul Islam Khan**, Mohammad Zahirul Islam Mollah (2019). Assessment of Chitosan as Preservative on Shelf Life and Major Nutrient Contents on Fruits and Vegetables. *American Journal of Agricultural Science* 6(1): 1-10.
20. Marzia Habib, Mohammed Ariful Islam, Mohammad, **Md. Sirajul Islam Khan**, Md. Tazul Islam Chowdhury, MDH Prodhan (2019). Determination of major organophosphate pesticide residues in cabbage collected from different markets of Dhaka. *Asia Pacific Environmental and Occupational Health Journal (APEOHJ)*. 5(2):30-35.
21. Tanzin Chowdhury, Md Arifur Rahman, Kamrun Nahar, Md. Akhter Hossain Chowdhury and **Md. Sirajul Islam Khan** (2018). Growth and yield performance of *Aloe vera* grown in different soil types of Bangladesh. *J Bangladesh Agril Univ* 16(3): 448-456.
22. Md. Meftaul Islam, **Md. Sirajul Islam Khan** and Aney Parven (2017). Growth and Yield Potential of Late Planting Cabbage Influenced by Gibberellic Acid. *Int. J. Bus. Soc. Sci. Res.* 6(1): 62-67.
23. Masahiko Suzuki, **Md. Sirajul Islam Khan**, Arihiro Iwasaki, Kiyotake Suenaga & Hisashi Kato-Noguchi (2016). Allelopathic potential and an allelopathic substance in mango leaves, *Acta Agriculturae Scandinavica, Section B — Soil & Plant Science*, DOI: 10.1080/09064710.2016.1215517.
24. **Md. Sirajul Islam Khan** and Hisashi Kato-Noguchi (2016). Assessment of allelopathic potential of *Couroupita guianensis* Aubl. *POJ* 9(2):115-120.

25. **Md. Sirajul Islam Khan**, A K M Mominul Islam, and Hisashi Kato-Noguchi (2013). Evaluation of Allelopathic Activity of Three Mango (*Mangifera indica*) Cultivars. Asian Journal of Plant Science, 12:252-261.
26. A K M Mominul Islam, **Md Sirajul Islam Khan** and Hisashi Kato-Noguchi (2013): Allelopathic Activity of *Litchi chinensis* Sonn. Acta Agriculturae Scandinavica, Section-B, Soil and Plant Science, 63(8): 669-675.
27. **Md. Sirajul Islam Khan**, M. A. Razzaque and M.T.I Chowdhury (2010). Ionic Toxicity Assessment of Water Sources and Their Suitability for Irrigation, Drinking, Livestock and Industrial Purposes. Journal of Experimental Sciences.2 (1):16-20.
28. Md.Tazul Islam Chowdhury, M. A. Razzaque and **Md. Sirajul Islam Khan**. (2010). Status of Chlorinated pesticide residue in tomato, potato and carrot. Journal of Experimental Sciences. 2(1):01-05.
29. S. S. Roy, **Md. Sirajul Islam Khan** and K. K. Pall (2010). Nitrogen and Phosphorus Efficiency on the Fruit Size and Yield of *Capsicum*. Journal of Experimental Sciences. 2 (1):32-37.
30. **Md. Sirajul Islam Khan**, S. S. Roy and K. K. Pall (2010). Nitrogen and Phosphorus Efficiency on the Growth and Yield Attributes of *Capsicum*. Academic Journal of Plant Science, 3(2): 71-78.

National Journals:

31. Sheikh Naymul Islam, Mohammed Ariful Islam, Md. Tazul Islam Chowdhury, Abdul Kaium and **Md. Sirajul Islam Khan** (2021). Efficacy of some selected medicinal plants for their possible allelopathic activity on barnyard grass and okra. J. Sher-e-Bangla Agric. Univ., 12 (1&2):30-40.
32. **Md. Sirajul Islam Khan**, M. A. Razzaque, M. T. I. Chowdhury and A. R. Mazumder. (2010). Toxicity Assessment of Ground Water in Different Acquifers of Kushtia District in Bangladesh. Bangladesh J. Progr. Sci. Technol. 3(1): 183-186.
33. S. S. B. Mustafiz, M. T. I. Chowdhury, **Md. Sirajul Islam Khan** and M. H. M. Bhuyan. (2009). Efficacy of Some Botanicals in Controlling White Fly. Bangladesh J. Progr. Sci. Technol. 7(2): 359-362.
34. M. H. M. B. Bhuyan, R. Panna, M. T. I. Chowdhury, **Md. Sirajul Islam Khan** (2009). Study on Nutritional Analysis of Waster Mushroom (*Pleurotus ostreatus*) Grown on Supplemental Sugarcane Bagasse. Bangladesh J. Progr. Sci. Technol. 7(2): 355- 358.

11. Others Skillness:

- ❖ **Reviewer:** Many International and National reputed journals
- ❖ **Graduate School Representative:** Acted as a Graduate School Representative of Sher-e-Bangla Agricultural University, Dhaka.

- ❖ **External Examiner:** Acted as an external examiner in different public universities, PSC, BTEB, NTRCA in Bangladesh.
- ❖ **Examiner of M. S. & PhD Thesis:** Acted as an examiner of M. S. thesis of SAU, RU, BAU, PSTU, NSTU, HSTU, KU.
- ❖ **External Member,** Teacher's Appointment Board at SAU

12. Awards/ Fellowships/ Scholarships:

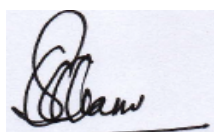
- ❖ Awarded by Junior Scholarship (Secondary School Level) by Bangladesh Government in 1994
- ❖ Awarded by Sher-e-Bangla Agricultural University (Former Bangladesh Agricultural Institute), Sher-e-Bangla Nagar, Dhaka, Bangladesh for pursuing B.Sc.Ag. (Session 1999-2000 to 2003-04).
- ❖ Awarded by MEXT (Monbukagakusho, Japanese Govt.) Scholarship, Japan for pursuing MS leading PhD from 01-11-2011 to 31-10-2016

13. Professional Membership:

SL. No.	Name of Professional Societies	Type of Membership
01	Japanese University Alumni Association	Life Member
02	United Graduate School of Agricultural Sciences, Ehime University, Japan	E- Member
03	Agricultural Chemist and Environment Association in Bangladesh	Member
04	Sher-e-Bangla Agricultural University Teachers Association (SAUTA)	Executive Member
05	Krishibid Institution, Bangladesh (KIB)	Life Member
06	Netherlands Alumni Association of Bangladesh (NAAB)	Member
08	Academic Counsel at SAU	Member
09	Academic Committee at SAU	Member
10	Executive Committee of the Faculty of Agriculture at SAU	Member

13. Others Experiences at the University Level:

1. Member, Central Purchase Committee (Revenue) at SAU
2. Member, Grievance Redress System, SAU
3. Adviser, IAAS, SAU
4. Member, Tender Committee for Internal Purchase System at SAU



20.05.2024

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(Dr. Md. Sirajul Islam Khan)