



**CURRICULUM VITAE**  
of  
**Prof. Dr. S. M. Abe Kawsar**



## CONTACT

*Professor*  
*Laboratory of Carbohydrate & Nucleoside Chemistry*  
*Department of Chemistry, Faculty of Science*  
*UNIVERSITY OF CHITTAGONG, Chittagong 4331, Bangladesh*  
*Tel.: +880-31-2606001-10, Extn. 4302 (Office)*  
*Mobile: +88 01762717081, 01954182926; Fax- +880-31-2606014*  
*E-mail: [akawsarabe@yahoo.com](mailto:akawsarabe@yahoo.com) or [akawsar@cu.ac.bd](mailto:akawsar@cu.ac.bd)*  
*Home: [https://cu.ac.bd/public\\_profile/index.php?ein=3932](https://cu.ac.bd/public_profile/index.php?ein=3932)*  
*<https://cu.ac.bd/dept/facultyprofile.php?secno=46&menumapno=130>*  
*<http://scholar.google.co.jp/citations?user=5LPkQSoAAAAJ&hl=en>*  
*[https://www.researchgate.net/profile/S\\_M\\_Abe\\_Kawsar](https://www.researchgate.net/profile/S_M_Abe_Kawsar)*

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***SUMMARY:*** *Undergraduate (Bachelor of Science) & Graduate (Masters of Science) (Chittagong University), M.Phil (Master of Philosophy) (BUET), Ph.D., Postdoctoral Fellowship & Invitation Fellowship (Yokohama City University, Japan.. Awarded Monbukagakusho Japanese Government Scholarship (for Ph.D.) & JSPS (Japan Society for the Promotion of Science), Japanese Government (for Postdoctoral and Invitation Fellowship). Visiting Professor, Yokohama City University, Japan, Research Interest: Synthetic Organic Chemistry (Carbohydrate & Nucleoside Chemistry), Protein Chemistry and Glycobiology.*

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### ***Summary of publication activity:***

<i>i. Number of total peer-reviewed publications</i>	<b>: 97</b>
<i>ii. Book &amp; Book chapters (USA, UK &amp; Germany-Latvia)</i>	<b>: 09</b>
<i>iii. Researchgate RG Score</i>	<b>: 28.99</b>
<i>iv. Citations (Google Scholar)</i>	<b>: 910</b>
<i>v. h-index</i>	<b>: 18</b>
<i>vi. i10-index</i>	<b>: 30</b>
<i>vii. Proceedings to the international/national l journals</i>	<b>: 16</b>
<i>viii. Presentations (oral/poster)</i>	<b>: 48</b>

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## EDUCATION/ACADEMIC QUALIFICATIONS

### **2018-2020 Visiting Professor**

Visiting Professor at the Department of Nanobioscience at Yokohama City University, Yokohama, Japan

**Field:** Marine Glycobiology

**2015-2016 Visiting Professor**

Visiting Professor at the Department of Nanobioscience at Yokohama City University, Yokohama, Japan

*Field:* Marine Glycobiology

**2015-2016 Invitation Fellowship**

Invitation fellow at the Department of Nanobioscience, Yokohama City University, Yokohama, Japan

*Research title:* “Study on novel marine lectins based on gene diversification to promote life sciences” ([https://www.jsps.go.jp/english/e-inv/data/FY2015/e\\_long.pdf](https://www.jsps.go.jp/english/e-inv/data/FY2015/e_long.pdf))

*Supervisor:* Professor Yasuhiro Ozeki, Ph.D. (Japan), Department of Nanobioscience, Yokohama City University, Japan

*Field:* Glycobiology

*Supported:* Japan Society for the Promotion of Science (JSPS), Japanese Government

**2009-2011 Post Doctoral Fellowship (JSPS)**

Post doctoral fellow at the Department of Genome System Sciences, Graduate School of Nano Biosciences, Yokohama City University, Yokohama, Japan

*Research title:* “Glycomics Study of Novel Lectins Purified from Marine Invertebrates Living in Japan and Bangladesh”

(<https://www.jsps.go.jp/english/e-fellow/data/gaitoku21-1e.pdf>)

*Supervisor:* Professor Yasuhiro Ozeki, Ph.D. (Japan), Department of Genome System Science, Yokohama City University, Japan

*Field:* Glycobiology

*Supported:* Japan Society for the Promotion of Science (JSPS), Japanese Government

**2005-2009 Doctor of Philosophy (PhD)**

Doctor of Philosophy degree at the Department of Environmental Biosciences, International Graduate School of Arts and Sciences, Yokohama City University, Yokohama, Japan

*Title of PhD thesis:* “Comparative study on the glycan binding profile by Frontal affinity chromatography for three novel lectins purified from marine invertebrates”

(<http://iss.ndl.go.jp/books/R100000002-I000010546661-00?locale=en&ar=4e1f>)

*Supervisor:* Professor Yasuhiro Ozeki, Ph.D. (USA), Department of Environmental Biosciences, Yokohama City University, Japan

*Field:* Glycobiology

*Supported:* Ministry of Education, Culture, Sports, Science and Technology (MEXT), MONBUKAGAKUSHO Scholarship, Japanese Government

**1999-2003 Master of Philosophy (M.Phil)**

Master of Philosophy degree at the Department of Chemistry, Faculty of Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

**Title of M. Phil. thesis:** “Chemical and pharmacological investigation of *Dolichos biflorus* whole plant” (<http://lib.buet.ac.bd:8080/xmlui/handle/123456789/1814>)

**Supervisor:** Professor Enamul Huq, Ph.D. (U.K), Department of Chemistry, Bangladesh University of Engineering & Technology (BUET), Bangladesh.

**Co-Supervisor:** Professor Nilufar Nahar, Ph.D. (Uppsala, Sweden), Department of Chemistry, Dhaka University, Bangladesh.

**Field:** Chemistry

**Supported:** Ministry of Education and Information, Bangladesh Government, BUET & Dhaka University, Bangladesh

**1993-1994**      **Master of Science (M. Sc)**

(exam held in 1998\*)      Master of Science degree at the Department of Chemistry, Faculty of Science, University of Chittagong, Chittagong, Bangladesh

**Title of M.Sc. thesis:** “Synthesis, Characterization and antibacterial activities of some acylated derivatives of uridine”

**Supervisor:** Professor Abul K. M. S. Kabir, Ph.D. (Dundee, U.K), Department of Chemistry, University of Chittagong, Bangladesh

**Field:** Organic Chemistry

**Supported:** Department of Chemistry, University of Chittagong, Bangladesh

**1990-1993**      **Bachelor of Science (B. Sc Honors)**

(exam held in 1996\*)      Bachelor of Science degree at the Department of Chemistry, Faculty of Science, University of Chittagong, Chittagong, Bangladesh

**Field:** Chemistry

**Supported:** University of Chittagong, Bangladesh.

(\* means exam don't held in exact time due to political unrest in the country).

***EMPLOYMENTS/CARRIER HISTORY***

**2018-Today**      **Professor, Grade-2 (Full & Permanent Position)**

at Department of Chemistry, Faculty of Science, *University of Chittagong*, Chittagong-4331, Bangladesh

**2014-2018**      **Professor, Grade-3 (Full & Permanent Position)**

at Department of Chemistry, Faculty of Science, *University of Chittagong*, Chittagong-4331, Bangladesh

**2016-today**      **Adjunct Professor**

at Department of Natural Sciences, Asian University for Women, Chittagong, Bangladesh

**2015-2016**    **Visiting Professor**

at Department of Nanobioscience, Yokohama City University, Yokohama, Japan

**2010-2014**    **Associate Professor**

at Department of Chemistry, Faculty of Science, *University of Chittagong*, Chittagong-4331, Bangladesh

**2003-2010**    **Assistant Professor**

at Department of Chemistry, Faculty of Science, *University of Chittagong*, Chittagong-4331, Bangladesh

**2001-2003**    **Lecturer**

at Department of Chemistry, Faculty of Science, *University of Chittagong*, Chittagong-4331, Bangladesh

**2000-2001**    **Teaching Assistant**

at Department of Chemistry, Faculty of Chemical Engineering, *Bangladesh University of Engineering and Technology (BUET)*, Dhaka-1000, Bangladesh

**2000-2000**    **Assistant Chemist**

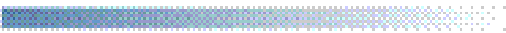
at *Bangladesh Chemical Industries Corporation (BCIC)*, Ministry of Industry, Bangladesh Government, Dhaka-1000, Bangladesh

**1999-2000**    **Production Officer**

at *Aventis Crop Science & Pharmaceuticals* (Fisons, Rhone-Poulenc Rorer, Hoechst), Dhaka-1000, Bangladesh

**1999-1999**    **Chemist**

at *Leather Industries of Bangladesh (LIB)*, Dhaka-1000, Bangladesh.

**UNIVERSITY TEACHING** 

- i) at the Department of Chemistry, University of Chittagong
- ii) at the Department of Pharmacy, University of Chittagong
- iii) at the Department of Biochemistry, University of Chittagong
- iv) at the Department of Genetic Engineering & Biotechnology, University of Chittagong
- v) at the Department of Soil Science, University of Chittagong
- vi) at the Department of Zoology, University of Chittagong
- vii) at the Department of Physics, University of Chittagong
- viii) at the Department of Natural Sciences, Asian University for Women, Chittagong

**DUTIES & RESPONSIBILITIES**

- i) Delivering theory lectures in Organic Chemistry Fundamentals, Chemistry of Aromatic compounds, Chemistry of heterocyclic, Chemistry of biomolecules, Functional derivatives of hydrocarbons, Medicinal Chemistry, Organic reaction mechanism, Stereochemistry, Clinical and pathological chemistry, Synthetic organic chemistry, Natural products chemistry, Bioorganic chemistry (carbohydrates, nucleosides, protein etc.), Organic spectroscopy & chromatography and Special topics in organic synthesis in post-graduate and under graduate courses in the Department of Chemistry, Department of Biochemistry, Department of Genetic Engineering and Biotechnology, Department of Zoology, Department of Physics and Department of Soil Science, University of Chittagong and Department of Natural Sciences, Asian University for Women, Chittagong.
- ii) Conducted practical classes in the lab for Functional group analysis, Synthesis & detection of organic compounds, Systematic organic compounds identification, Functional group estimation and chromatographic techniques, Separation and identification of organic compounds from their mixtures, Multistep organic synthesis, Elucidation of the structures of organic compounds by using spectrophotometric methods, UV, IR,  $^1\text{H-NMR}$ ,  $^{13}\text{-NMR}$  and mass, Analysis of carbohydrates, fats & oils, Separation of mixtures of organic compounds by using chromatographic methods and Analysis of drugs at the Department of Chemistry, Department of Biochemistry, Department of Genetic Engineering and Biotechnology, Department of Zoology, Department of Physics, Department of Soil Science, University of Chittagong and Department of Natural Sciences, Asian University for Women, Chittagong.
- ii) Examiner at the Department of Chemistry, Department of Pharmacy, Department of Biochemistry, Department of Genetic Engineering and Biotechnology, Department of Zoology, Department of Physics, Department of Soil Science, University of Chittagong and Department of Natural Sciences, Asian University for Women, Chittagong.
- iii) External and Examiner at the Department of Chemistry, Dhaka University, Jagannath University, Comilla University, National University, Noakhali Science and Technology University, Mawlana Basani Science and Technology University, Tangail, Bangladesh.

**CURRENT RESEARCH INTEREST**

- i) Synthetic Organic Chemistry: Synthesis of various carbohydrate and nucleoside derivatives
- ii) Biological and pharmacological studies e.g., anticancer, antitumor, antiviral, antidiabetic, anti-inflammatory, antibacterial and antifungal and also looking therapeutic agents for clinical and microbial uses

- iii) Carbohydrate binding proteins (lectins) and glycoproteins; their applications in biology and medicine
- iv) Studies of Glycobiology and glycomics
- v) Computational Chemistry for drug design
- vi) Proteomics study

## **RESEARCH ACHIEVEMENTS**

- i) Synthesized and characterized various carbohydrate derivatives
- ii) Synthesized and spectral analyzed different nucleoside derivatives
- iii) Evaluated of antibacterial, antifungal, cytotoxicity, antidiabetic etc. activities
- iv) Novel carbohydrate binding proteins (lectins) purified from marine invertebrates & eggs
- v) Unique primary structures established from various proteins
- vi) Glycomics studied using Frontal affinity chromatography technology (FACT)
- vii) Cell proliferation
- viii) Kinetic studied by Surface plasmon resonance (SPR) biosensor
- ix) Glycoprotein purification by lectin affinity chromatography
- x) Antibody preparation
- xi) Immunohistochemistry
- xii) Isolated pure compounds from plants
- xiii) Identification and quantification of phenolic acids and fatty acids.

## **RESEARCH TECHNIQUES AND EXPERIMENTAL SKILLS** *(Spectroscopic, Chromatographic & Other Techniques)*

- i) UV-Visible, FTIR, NMR, Mass and Fluorescent Spectrometry
- ii) Frontal affinity chromatography technology (FACT), Surface plasmon resonance (SPR) biosensor
- iii) HPLC, Fast protein liquid chromatography (FPLC)
- iv) Normal, reversed, affinity, ion-exchange and gel-filtration column chromatography
- v) Protein sequencer
- vi) TLC, SDS-PAGE
- vii) Western and lectin blotting
- viii) Immobilization of protein-conjugated columns

- ix) Salting in and salting out.

### **FIELD OF SPECIALIZATION**

- i) Synthetic carbohydrate chemistry
- ii) Synthetic nucleoside chemistry
- iii) Glycobiology
- iv) Carbohydrate Binding Proteins (Lectins)
- v) Natural products chemistry.

### **COLLABORATIVE RESEARCH**

*(Existing collaborations and wanted collaboration)*

- i) Joint project is going on with Prof Dr. Yasuhiro Ozeki, Yokohama City University, Japan for the development of glycomics study
- ii) Joint project is going on with Prof Dr. Robert Kanaly, Yokohama City University, Japan for spectroscopic study
- iii) Joint project is going on with Prof Dr. H. Nobuhiko, Tokyo Institute of Technology (TIT), Japan with for the proteomics study
- iv) Prof Dr. B. P. Chatterjee, West Bengal University of Technology, Kolkata, India for the lectin research
- v) Joint collaboration research work with Dr. Imtiaj Hasan, Associate Professor, Rajshahi University for biological studies
- vi) Now I seek for strong collaboration with Immunohistochemistry laboratories in Germany, UK, USA.

### **RESEARCH PROJECTS (On going / Completed)**

- 2020-21** “Synthesis, Physicochemical, Biological and Computational Investigations of Novel Mannopyranoside Esters for Antimicrobial Agents”.  
***Financed by:* Ministry of Science and Technology**, Government of the People’s Republic of Bangladesh.  
 Ref.: 39.00.0000.009.06.009.20-1331/Phy’s-530 (dated: 8/12/2020).
- 2020-21** “Synthesis and Characterization of Cytosine  $\beta$ -D-Riboside Esters for Computational, Antimicrobial and Anticancer Screening Studies”.  
***Financed by:* Research & Publication Cell, University of Chittagong**, Bangladesh.  
 Ref.: 21/gobe/pari/proka/doptor/C.U./2020 (dated: 22/03/2020).
- 2019-20** “Chemical Synthesis of Cytosine  $\beta$ -D-Riboside Esters for Pathogenicity, Anticancer and Computational Studies”.

**Financed by: Ministry of Science and Technology**, Government of the People's Republic of Bangladesh.

Ref.: 39.00.0000.09.06.024.19/Phy's-544/560 (dated: 12/01/2020)

**2018-19** "Synthesis and Evaluation of Antimicrobial & Anticancer Activities of Deoxyribosylthymine Derivatives for Chemotherapeutic Drug Target".

**Financed by: Ministry of Science and Technology**, Government of the People's Republic of Bangladesh.

Ref.: 39.00.0000.09.14.009.2019/Phy's-32/502 (dated: 16/01/2019)

**2018-19** "Novel synthesis approach and antimicrobial and antimicrobial Activity of some acylated monosaccharide derivatives".

**Financed by: Planning & Development Office, University of Chittagong**, Bangladesh.

Ref.: 299/pou/7-36(2)/2nd/C.U./2018 (dated: 28/06/2018).

**2018-19** "Thymidine Used for the Treatment of Hepatitis b: Synthesis of Thymidine Analogues, Characterization and Biological Investigations (Phase-1)".

**Financed by: Research & Publication Cell, University of Chittagong**, Bangladesh.

Ref.: 6322/gobe/pari/proka/doptor/C.U./2018 (dated: 07/08/2018).

**2017-18** "Synthesis, Physicochemical and Evaluation of Antimicrobial & Anticancer Activities of Some D-Glucose Derivatives".

**Financed by: Ministry of Science and Technology**, Government of the People's Republic of Bangladesh.

Ref.: 39.00.0000.09.06.79.2017/Phy's-437/ (dated: 06/11/2017)

**2017-18** "An Efficient Synthesis, Characterization and Antimicrobial Activities of Some Acylated Uridine Derivatives (Phase-2)".

**Financed by: Research & Publication Cell, University of Chittagong**, Bangladesh.

Ref.: 6018/gobe/pari/proka/doptor/C.U./2017 (dated: 26/09/2017).

**2016-17** "Regioselective Synthesis and Reactions of Some New Uracil Riboside Derivatives for Potential Antimicrobial Agents".

**Financed by: Ministry of Science and Technology**, Government of the People's Republic of Bangladesh.

Ref.: 39.00.0000.09.02.69.16-17/Phy's-367/ (dated: 15/01/2017)

**2016-17** "An Efficient Synthesis, Characterization and Antimicrobial Activities of Some Acylated Uridine Derivatives (Phase-1)".

**Financed by: Research & Publication Cell, University of Chittagong**, Bangladesh.

Ref.: 5809/gobe/pari/proka/doptor/C.U./2016 (dated: 15/12/2016).

**2014-15** "Rational Design, Synthesis and Structural Elucidation of Nucleoside and Monosaccharide Derivatives: Biological Investigations for Pharmaceutical Uses".

**Financed by: Ministry of Education**, Government of the People's Republic of Bangladesh.

Ref.: 37.01.0000.078.02.018.13.120 (dated: 10/02/2015).



- 2014-15** “Physicochemical and Structural Activity Relationship (SAR) of Some Newly Synthesis of Nucleoside Derivatives with Biological Investigations”.  
***Financed by:* Ministry of Science and Technology**, Government of the People’s Republic of Bangladesh.  
Ref.: 39.009.002.01.00.053.2014-2015/Phy’s-275/319 (dated: 26/01/2015).
- 2014-15** “Synthesis, structural elucidation and antimicrobial screening studies of carbohydrate derivatives (Phase-2)”.  
***Financed by:* Research Cell, University of Chittagong**, Bangladesh.  
Ref.: 5502/gobe/pari/proka/C.U./2014 (dated: 5/5/2014).
- 2013-14** “Design and newly synthesis of nucleoside and carbohydrate derivatives: Biological studies for clinical and microbial possibilities (Phase-2)”.  
***Financed by:* Ministry of Science and Technology**, Government of the People’s Republic of Bangladesh.  
Ref.: 39.009.006.01.00.049.2013-2014/MEDE’S-54/235/1(4) (dated: 6/11/2013).
- 2013-14** “The design, synthesis and structural characterization of carbohydrate and nucleoside derivatives: biological studies for clinical and microbial possibilities.  
***Financed by:* The World Academy of Sciences for the Advancement of Science in Developing Countries (TWAS), UNESCO** and the Italian Government for TWAS.  
Ref.: 12-182 RG/CHE/AS\_1; UNESCO FR: 3240271357(dated: 19/08/2013).
- 2012-13** “Design and newly synthesis of nucleoside and carbohydrate derivatives: Biological studies for clinical and microbial possibilities (Phase-1)”.  
***Financed by:* Ministry of Science and Technology**, Government of the People’s Republic of Bangladesh.  
Ref.: 39.009.006.01.00.042.2012-2013/Phys-8/599/1(5) (dated: 3/10/2012).
- 2011-12** “Design, synthesis and structural elucidation of nucleoside derivatives: antimicrobial screening studies for clinical and microbiological possibilities”.  
***Financed by:* UGC-University of Chittagong**, Planning and development, Bangladesh.  
Ref.: 348/P&D/7-28/2012 (Part 3) (dated: 23/05/2012).
- 2011** “Synthesis, structural elucidation and antimicrobial screening studies of carbohydrate derivatives (Phase-I)”.  
***Financed by:* Research Cell, University of Chittagong**, Bangladesh.  
Ref.: 5283/gobe/pari/proka/C.U./2012 (dated: 1/1/2012).
- 2009-11** “Glycomics, antiproliferative and immunohistochemical localization”.  
***Financed by:* Japan Society for Promotion of Science**: Grant-in-Aid for JSPS Fellows, Japanese Government. Ref.: Grant ID09F09100.
- 2005** “Synthesis and antimicrobial activities of some nucleoside derivatives”.  
***Financed by:* Research Cell, University of Chittagong**, Bangladesh.  
Ref.: 4015/gobe/pari/daptor/C.U./2012 (dated: 28/4/2005).

Synthesis and Biological Evaluation of some monosaccharide Derivatives

- 2004** “Synthesis and biological activities of some carbohydrate and nucleoside derivatives”.  
**Financed by: Research Cell, University of Chittagong**, Bangladesh.  
 Ref.: 348/P&D/7-28/2012 (Part 3) (dated: 23/05/2014).

### ***VISITED IN ABROAD***

USA, Japan, Australia, United Kingdom, Netherlands, Saudi Arabia etc.

### ***AWARDS AND FELLOWSHIP***

- 2020-2022** **Visiting Professor** at the Department of Nanobioscience at Yokohama City University, Yokohama, Japan
- 2018-2020** **Visiting Professor** at the Department of Nanobioscience at Yokohama City University, Yokohama, Japan
- 2016** **Visiting Professor** at the Department of Nanobioscience at Yokohama City University, Yokohama, Japan
- 2016** **JASSO Program Fellowship**, Japan Student Services Organization, under the Ministry of Education, Culture, Sports, Science and Technology (Monbukagakusho), Japanese Government
- 2015** **JSPS Invitation Fellowship (ID No. L-15562)**, Japan Society for the Promotion of Science (JSPS) Japanese Government
- 2009** **JSPS Postdoctoral Fellowship (ID No. P09100)**, Japan Society for the Promotion of Science (JSPS) Japanese Government
- 2006** **Ph.D. level, Monbukagakusho Scholarship (Scholar No. 052506)**, Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japanese Government
- 2005** **Research student, Monbukagakusho Scholarship (Scholar No. 052506)**, Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japanese Government
- 2001** **M.Phil level**, Ministry of Education, Science and Technology, Bangladesh Government
- 1998** **Master’s level**, Merit Award, Department of Chemistry, University of Chittagong, Bangladesh
- 1996** **B.Sc. (Honors) level**, Merit Award, Department of Chemistry, University of Chittagong
- 1987** **High School level**, Merit Award, Muradnagar D. R. Government High School, Comilla, Bangladesh

**THESIS/DISSERTATIONS SUPERVISED**

Name	Session	Qualifications	Type of staff (Currently working)
<b>PhD Researchers</b>			
Marium Islam	2019-2020	B.Sc. & MS, M.Phil. (DU) (stood 1 <sup>st</sup> position)	Assistant Professor Department of Chemistry, University of Chittagong, Bangladesh
Jannatul Ferdous	2019-2020	B.Sc. & MS (stood 1 <sup>st</sup> position)	Lecturer, Department of Chemistry, University of Chittagong, Bangladesh
<b>M.Phil. Researchers</b>			
Aushi Jui	2018-2019	MS: 1 <sup>st</sup> position	M.Phil.
Md Zahidul Haque Bulbul	2018-2019	MS: 1 <sup>st</sup> position	M.Phil.
<b>Lab Researchers</b>			
Jannatul Maowa	2019-till	MS: 1 <sup>st</sup> position	Researcher
Asraful Alam	2019-till	MS: 2 <sup>nd</sup> position	Researcher
<b>MS Thesis Students</b>			
Tahmida Sultana Bhuiyan	2018-2019	B.Sc. (Hons.) (4 <sup>th</sup> position)	MS Thesis
Matiur Rahman	2018-2019	B.Sc. (Hons.) (5 <sup>th</sup> position)	MS Thesis
Fahima Sultana	2018-2019	B.Sc. (Hons.) (6 <sup>th</sup> position)	MS Thesis
Sabina Akter	2018-2019	B.Sc. (Hons.)	MS Thesis
Nasrin Akter	2018-2019	B.Sc. (Hons.)	MS Thesis
Farzana Akter	2018-2019	B.Sc. (Hons.)	MS Thesis
<b>MS Thesis Students Supervised</b>			
Total 33 students have been supervised till today.			

**RESEARCH HIGHLIGHTED**

- 2020** **Yokohama City University, Japan, home page:** "A YCU alumnus, Prof. Dr. S. M. Abe Kawsar, University of Chittagong, Bangladesh, published two academic books from a German publisher". English Version:- <http://www-user.yokohama-cu.ac.jp/~english/index.php/2020/06/11/a-ycu-alumnus-prof-dr-s-m-abe-kawsar-university-of-chittagong-bangladesh-published-two-academic-books-from-a-german-publisher/> Japanese version:- [https://www.yokohama-cu.ac.jp/news/2020/202006\\_oozeki.html](https://www.yokohama-cu.ac.jp/news/2020/202006_oozeki.html)
- 2020** **Yokohama City University, Japan, home page:** "YCU Research group on invertebrates lectin". [https://www.yokohama-cu.ac.jp/news/2020/200417\\_oozeki.html](https://www.yokohama-cu.ac.jp/news/2020/200417_oozeki.html)

- 2019** **Ministry of Science and Technology, Government of the People's Republic of Bangladesh:** "Synthesis Physicochemical and Evaluation of Antimicrobial and Anticancer Activities of some D-glucose Derivatives". *Journal of Science and Technology Research*, Volume 02(1), 72-80, **2019**. Sponsored by the Ministry of Science and Technology, Govt. of the People's Republic of Bangladesh.
- 2018** **Ministry of Science and Technology, Government of the People's Republic of Bangladesh:** "Regioselective Synthesis and Reactions of Some New Uracil Riboside Derivatives for Potential Antimicrobial Agents". *Journal of Science and Technology Research*, Volume 01(1), 61-68, **2018**. Sponsored by the Ministry of Science and Technology, Govt. of the People's Republic of Bangladesh.
- 2016** **Yokohama City University, Japan, home page:** "Interview as a visiting Professor at YCU". <http://www.yokohama-cu.ac.jp/graduates/interview/29.html>  
<https://www.yokohama-cu.ac.jp/yokoshiri/global/20180109s.m.abe.html>
- 2014** **Yokohama City University, Japan, home page:** "YCU Ph.D. alumni became promoted to the position of professor at the University of Chittagong in Bangladesh". [http://www.yokohama-cu.ac.jp/eng/news/popucb\\_eng.html](http://www.yokohama-cu.ac.jp/eng/news/popucb_eng.html)
- 2013** **Japanese Association for Marine Biology (JAMBIO), MEXT, Japan, home page:** "MytiLec is a novel structure family of lectin isolated from the Mediterranean mussel". <http://www.shimoda.tsukuba.ac.jp/~jambio/eng-researchtopics.html#ozeki201305>
- 2013** **Yokohama City University, Front page:** "Glycan-mediated cytotoxicity of human lymphoma cells was induced by a lectin purified from the Mediterranean mussel with a highly novel primary structure". <http://www.yokohama-cu.ac.jp/eng/research/info/130426ozeki.html>
- 2012** **Yokohama City University, Japan, Front page:** "A carbohydrate-binding protein with a SUEL-type lectin domain promotes investigation of minimally invasive therapy by the depletion of gene expression coding a multidrug resistant transporter on Burkitt's lymphoma cells". [http://www.yokohama-cu.ac.jp/eng/research/info/20120710ozeki\\_lectin.html](http://www.yokohama-cu.ac.jp/eng/research/info/20120710ozeki_lectin.html)
- 2012** **Japanese Association for Marine Biology (JAMBIO), MEXT, Japan, home page:** "SAL with SUEL-type lectin domains depleted multidrug resistant transporter MRP1 gene expression of on Burkitt's lymphoma cells by a novel lectin-glycan pathway". <http://www.shimoda.tsukuba.ac.jp/~jambio/eng-researchtopics.html>
- 2011** **Yokohama City University, Japan, Front page:** "YCU Lectin-glycomics study team succeeds to isolate a novel lectin for glycan-based biomedical research from the feather star *Oxycomanthus japonicus*". [http://www.yokohama-cu.ac.jp/eng/research/info/110426oozeki\\_umishida.html](http://www.yokohama-cu.ac.jp/eng/research/info/110426oozeki_umishida.html)
- 2010** **Japanese Association for Marine Biology (JAMBIO), MEXT, Japan, home page:** "Isolation of a novel lectin from feather star with an unique glycan-binding profile". <http://www.shimoda.tsukuba.ac.jp/~jambio/eng-researchtopics.html>

**EDITORIAL BOARD MEMBER****Editor-In-Chief:**

**Special Journal of Chemistry and Biochemistry Innovations**

[https://sjchemistry.spparenet.org/staff-member/sarkar-m-a-kawsar/?fbclid=IwAR0bCNkESO\\_LMu5zNHrkWBjzrAES8ia9aDGJqgbemRW5tMKMO\\_d8VTMguqo](https://sjchemistry.spparenet.org/staff-member/sarkar-m-a-kawsar/?fbclid=IwAR0bCNkESO_LMu5zNHrkWBjzrAES8ia9aDGJqgbemRW5tMKMO_d8VTMguqo)

**Editorial Board members:**

- i) British Journal of Pharmacology and Toxicology  
<http://maxwellsci.com/jp/editor.php?jid=BJPT>  
(<http://maxwellsci.com/jp/J/BJPT-EBM.pdf> )
- ii) Biotechnology  
<http://scialert.net/eboard.php?issn=1682-296x>
- iii) Current Research Journal of Biological Sciences  
<http://maxwellsci.com/jp/editor.php?jid=CRJBS>
- iv) Bacteriology Journal  
<http://scialert.net/eboard.php?issn=2153-0211>
- v) Pakistan Journal of Biological Sciences  
<http://scialert.net/eboard.php?issn=1028-8880>
- vi) Advance Journal of Food Science and Technology etc.  
<http://maxwellsci.com/jp/editor?jid=AJFST>  
(<http://maxwellsci.com/jp/J/AJFST-EBM.pdf> )

**REVIEWER IN THE REPUTED JOURNALS**

- i) Current Organic Chemistry, Bentham Science, UK
- ii) Protein and Peptide Letters, Bentham Science, UK
- iii) Letters in Organic Chemistry, UK
- iv) Academic Journals Inc., USA
- v) Pharmaceutical Biology, Informa
- vi) Int. J. Biol. Macromolecules, Elsevier
- vii) Sci. Pharmaceutica, MDPI
- viii) Comp. Biochem. Physiol, Elsevier
- ix) Science Alert, ANSI-Pakistan  
and different International and National journals.

**PROFESSIONAL MEMBERS**

- 2015** Life Member, Chemistry Alumni Association (BONDING), Department of Chemistry, University of Chittagong, Bangladesh
- 2013** Life Member, Bangladesh JSPS Alumni Association (BJSPSAA), (Membership no.: 82) Dhaka, Bangladesh
- 2013** Life Member (Sl. No. 187), Japanese Universities Alumni Association in Bangladesh (JUAAB), Dhaka, Bangladesh  
([http://www.juaab-bd.org/attachments/article/91/Life%20Member%20\(Alphabeticaly\).pdf](http://www.juaab-bd.org/attachments/article/91/Life%20Member%20(Alphabeticaly).pdf))
- 2013** Member (M-2329), Asiatic Society of Bangladesh  
([http://www.asiaticsociety.org.bd/members/asb\\_general2014.pdf](http://www.asiaticsociety.org.bd/members/asb_general2014.pdf))
- 2013-Today** Member (M-44374052), American Society for Microbiology
- 2013** Life Member (LM-118), The Bangladesh Society for Biochemistry and Molecular Biology (BSBMB), Dhaka, Bangladesh
- 2013** Member (M), Chittagong Chemical Foundation, Bangladesh
- 2012** Life Member (LM-1653), Bangladesh Chemical Society (BCS), Bangladesh
- 2011** Member, Japan-Asia Research Community, Tokyo, Japan
- 2010** Member, Japan Biotechnology Society, Tokyo, Japan
- 2009** Member, BAAS (Bangladesh AOTS Alumni Society), Dhaka, Bangladesh
- 2002** House Tutor, Shaheed Abdur Rab Hall, University of Chittagong, Bangladesh
- 2013** Member, Faculty of Science, University of Chittagong
- 2013- Today** Chairman of Examination Committees to conduct the different Examinations, University of Chittagong
- 2002 & 2013** Member, Planning Committee, Department of Chemistry, University of Chittagong, Bangladesh
- 2001- Today** Member, Academic Committee, Department of Chemistry, University of Chittagong
- 2012- Today** Member, Science Faculty Council, University of Chittagong
- 2014- Today** Member, Academic Council, University of Chittagong

**SCIENTIFIC COMMITTEE**

1. ICHSBM 2017: "19<sup>th</sup> International Conference on Hydrogen Sulfide in Biology and Medicine". September 7-8, 2017, Tokyo, Japan.  
<https://waset.org/conference/2017/09/Tokyo/ICHSBM>
2. ICPCB 2018: "20<sup>th</sup> International Conference on Peptide Chemistry and Biochemistry". February 15-16, 2018, London, United Kingdom.

<http://waet.org/conference/2018/02/london/ICPCB>

3. Member of the Organizing Committee, Seminar on “Food Safety and Public Health”: 28 April, 2018, World Trade Center, Agrabad, Department of Chemistry, University of Chittagong.
4. Member, Registration and Invitation Sub-Committee, International Conference on Recent Advances in Chemistry (ICRAC), 7-8 February 2020, OP-B-06, page 37, Department of Chemistry, Jagannath University, Bangladesh.  
<https://icrac.co/>
5. Co-Chair at a Session-B: Organic & Organometallic Synthesis at the International Conference on Recent Advances in Chemistry (ICRAC), 7-8 February 2020, Department of Chemistry, Jagannath University, Bangladesh. <https://icrac.co/>

### **LIST OF PUBLICATIONS (INTERNATIONAL/NATIONAL)**

#### **BOOKS/AND BOOK CHAPTERS**

- 1) **Sarkar M. A. Kawsar**, Fujii Y., Ozeki Y., Chapter-6: “New Carbohydrate Derivatives: Synthesis, Characterization and Antimicrobial Screening Studies against Human and Plant Pathogens”, "Current Perspectives on Chemical Sciences Vol. 3", Dr. Oscar Jaime Restrepo Baena (Ed.), Book Publisher International, India, **ISBN:** 978-93-90431-73-1, pp 55-66, 6<sup>th</sup> November, **2020**. <https://doi.org/10.9734/bpi/cpcs/v3>
- 2) **Sarkar M. A. Kawsar**. “Synthesis and Microbial Screening of some Glucopyranoside derivatives. (*Approach to Pharmaceutical Uses*) ”, Scholars’ Press, Latvia (EU), Editor: Veronica Virilan. **ISBN-13:** 978-613-8-93812-5, **ISBN-10:** 6138938127, **EAN:** 9786138938125 pp, 01-133, 12<sup>th</sup> August, **2020**, [http://www.morebooks.shop/bookprice\\_offer\\_5b03ba328388db45d1dff0df6577909409b6e795?locale=gb&cy=EUR](http://www.morebooks.shop/bookprice_offer_5b03ba328388db45d1dff0df6577909409b6e795?locale=gb&cy=EUR)
- 3) **Sarkar M. A. Kawsar**, Asraful A. “Handbook of Methyl  $\beta$ -D-Galactopyranosides: Synthesis and Biological Investigation. (*Approaches to Pharmaceutical Uses*) ”. LAP LAMBERT Academic Publishing, Germany, Editor: Elena Barba. **ISBN-13:** 978-620-2-67147-7, **ISBN-10:** 6202671475, **EAN:** 9786202671477 pp, 01-148, 18<sup>th</sup> June, **2020**, [http://www.morebooks.shop/bookprice\\_offer\\_bea7785cb6219e72185c0069c6846874b6f869a8?locale=gb&cy=EUR](http://www.morebooks.shop/bookprice_offer_bea7785cb6219e72185c0069c6846874b6f869a8?locale=gb&cy=EUR)
- 4) **Sarkar M. A. Kawsar**, Yasuhiro Ozeki. “Carbohydrate-Binding Proteins (Lectins) from Marine Invertebrates”. (*Purification, Primary Structure, Glycomics Studies: Applications to Clinical and Diagnostics*), LAP LAMBERT Academic Publishing, Germany, Editor: Elena Barba. **ISBN-13:** 978-3-330-03242-2, **ISBN-10:** 3330032421, **EAN:** 9783330032422 pp, 01-112, 12<sup>th</sup> May, **2020**, [http://www.morebooks.shop/bookprice\\_offer\\_7e80fafd3440e071c206fe27e48c6d1a60971a35?locale=gb&cy=EUR](http://www.morebooks.shop/bookprice_offer_7e80fafd3440e071c206fe27e48c6d1a60971a35?locale=gb&cy=EUR)
- 5) **Sarkar M. A. Kawsar**, Asraful A. “Synthesis of Thymidine Analogues as Antimicrobial

and Anticancer Agents”. (*Synthesis of Thymidine Analogues*), LAP LAMBERT Academic Publishing, Germany, Editor: Elena Barba. ISBN-13: 978-620-2-53165-8, ISBN-10: 6202531657, EAN: 9786202531658 pp, 01-148, 28<sup>th</sup> April, 2020, [http://www.morebooks.shop/bookprice\\_offer\\_e66cfd723e71d2cea22467efdac07f066ac9c385?locale=gb&cy=EUR](http://www.morebooks.shop/bookprice_offer_e66cfd723e71d2cea22467efdac07f066ac9c385?locale=gb&cy=EUR)

- 6) Fujii Y., **Sarkar M. A. Kawsar**, Hasan I., Hideaki F., Marco G., Ozeki Y. Chapter-21: “Purification and Functional Characterization of the Effects on Cell Signaling of Mytillectin: A Novel  $\beta$ -Trefoil Lectin from Marine Mussels. (*Lectin Purification and Analysis: Methods and Protocols*. Hirabayashi Jun (Ed.), Springer US, Springer Nature Publisher. eISBN: 978-1-07-160430-4, Hardcover ISBN: 978-1-07-160429-8, pp, 201-213, April, 2020, DOI: [10.1007/978-1-0716-0430-4](https://doi.org/10.1007/978-1-0716-0430-4).
- 7) Hasan I., Fujii Y., **Sarkar M. A. Kawsar**, Rajia S., Sugawara S., Hosono M., Ogawa Y., Kawakami Y., Koide Y., Yamamoto D., Kanaly RA., Ozeki Y. Chapter-33: “Structural glycobiology for lectin to promote advanced biomedical research. (*Marine Glycobiology, Principles and Applications*” Se-Kwon Kim (Ed.), Taylor & Francis Group, CRC press, Boca Raton, USA (Edited by Se-Kwon Kim). ISBN: 978-1-4987-0961-3, pp, 445-458, August, 2016, DOI: [10.1201/9781315371399-34](https://doi.org/10.1201/9781315371399-34).
- 8) Koide Y., Fujii Y., Hasan I., Ogawa Y., Rajia S., **Sarkar M. A. Kawsar**, Kanaly RA., Sugawara S., Hosono M., Hamako J., Matsui T., Ozeki Y. Chapter-21: “SUEL/RBL and their Biomedical Applications” (*Marine Omics: Principles and Applications*), Se-Kwon Kim (Ed.), Taylor & Francis, CRC press, New York, USA, ISBN: [978-1-48-225820-2](https://doi.org/10.1080/9781482258202), pp, 407-418, 2016.
- 9) Ozeki Y., **Sarkar M. A. Kawsar**, Fujii Y., Ogawa Y., Sugawara S., Hasan I., Koide Y., Yasumitsu H., Kanaly RA., Chapter-8: Ability of diverse marine invertebrate lectins to regulate cell functions. (*Marine Proteins and Peptides: Biological Activities and Applications*), Se-Kwon Kim (Ed.), WILEY-BLACKWELL INC., ISBN: [978-1-1183-7506-8](https://doi.org/10.1002/9781118375082.ch8), Thomson Oxford, UK. pp 167-184, 2013. DOI: [10.1002/9781118375082.ch8](https://doi.org/10.1002/9781118375082.ch8)

## INTERNATIONAL / NATIONAL PUBLICATIONS

(64 International + 33 national = 97)

### 2021

97. Jannatul Ferdous, Sarkar M. A. Kawsar. Thermochemical, molecular docking and ADMET studies of some methyl  $\alpha$ -D-glucopyranoside derivatives, *The Chittagong University Journal of Science*, (CU), Accepted Vol. 42, 2021
96. M. M. Matin, Shagir A. Chowdhury, Md M. H. Bhuiyan, Sarkar M. A. Kawsar, Asraful Alam. Glucopyranoside Dipentanoyl Esters: Synthesis, PASS Predication, Antimicrobial and *In Silico* ADMET Studies, *Journal of Scientific Research*, (Faculty of Sciences, RU), 13(1), 221-235, 2021
95. Md Z.H. Bulbul, Tasneem S. Chowdhury, Md M.H. Misbah, Jannatul Ferdous, Sujan Dey, Imtiaj Hasan, Yuki Fujii, Yasuhiro Ozeki, Sarkar M. A. Kawsar. Synthesis of new series of pyrimidine nucleoside derivatives bearing the acyl



moieties as potential antimicrobial agent, *Pharmacia*, (Bulgarian Pharmaceutical Science Society), (Europe), 68(1), 23-34, 2021

94. Md Z. H. Bulbul, Mohammed Anowar Hosen, Jannatul Ferdous, Tasneem S. Chowdhury, Md M. H. Misbah, Sarkar M. A. Kawsar. DFT Study, Physicochemical, Molecular Docking and ADMET Predictions of some Modified Uridine Derivatives, *International Journal of New Chemistry*, (Iranian Chemical Science and Technologies Association), 8(1), 88-110, 2021
93. Tasneem S. Chowdhury, Jannatul Ferdous, Md Z.H. Bulbul, Md M.H. Misbah, Sujana Dey, Imtiaj Hasan, Sarkar M. A. Kawsar. Antimicrobial and anticancer activities of some partial acylated thymidine derivatives, *Journal of Bio-Science*, (Institute of Biological Sciences, R.U.), Accepted, Vol. 29, 2021

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92. Kazi M. Rana, Jannatul Ferdous, Anowar Hosen and Sarkar M. A. Kawsar. Ribose Moieties Acylation and Characterization of Some Cytidine Analogs, *Journal of Siberian Federal University, Chemistry* (Siberian Federal University, Russia), 13(4), 465-478, 2020
91. Sarkar M. A. Kawsar, Mohammed Anowar Hosen, Yuki Fujii, Yasuhiro Ozeki. Thermochemical, DFT, Molecular Docking and Pharmacokinetic Studies of Methyl  $\beta$ -D-galactopyranoside Esters, *Journal of Computational Chemistry & Molecular Modeling*, (New York, USA), 4(4), 452-462, 2020
90. Sarkar M. A. Kawsar, Mohammed Anowar Hosen. An optimization and pharmacokinetic studies of some thymidine derivatives, *Turkish Computational and Theoretical Chemistry*, (DergiPark, TÜBİTAK=Turkish Academic Network and Information Center, ULAKBİM=Scientific and Technological Research Council of Turkey), 4(2), 59-66, 2020
89. Md M.H. Misbah, Jannatul Ferdous, Md Z.H. Bulbul, Tasneem S. Chowdhury, Sujana Dey, Imtiaj Hasan, Sarkar M. A. Kawsar. Evaluation of MIC, MBC, MFC and anticancer activities of acylated methyl  $\beta$ -D-galactopyranoside esters, *International Journal of Biosciences*, 16(4), 299-309, 2020
88. Yuki Fujii, Marco Gerdol, Sarkar M. A. Kawsar, Imtiaj Hasan, Francesca Spazzali, Tatsusada Yoshida, Yukiko Ogawa, Sultana Rajia, Kenichi Kamata, Yasuhiro Koide, Shigeki Sugawara, Masahiro Hosono, Jeremy R.H. Tame, Hideaki Fujita, Alberto Pallavicini, Yasuhiro Ozeki. A GM1b/asialo-GM1 oligosaccharide-binding R-type lectin from purplish bifurcate mussels *Mytilisepta virgata* and its effect on MAP kinases, *The FEBS Journal* (FEBS PRESS, John Wiley & Sons Ltd., Federation of European Biochemical Societies), 287(12), 2612-2630, 2020

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87. Tasneem S. Chowdhury, Jannatul Ferdous, Md M.H. Misbah, Md Z.H. Bulbul, Sarkar M. A. Kawsar. Partial acylation of pyrimidine thymidine derivatives, *Journal of the Bangladesh Chemical Society* (Official Journal of Bangladesh Chemical Society), 31(2), 40-48, 2019

86. Md M.H. Misbah, Jannatul Ferdous, Md Z.H. Bulbul, Tasneem S. Chowdhury, Sarkar M. A. Kawsar. An efficient and easy route for the synthesis of methyl  $\beta$ -D-galactopyranoside derivatives, *Journal of the Bangladesh Chemical Society* (Official Journal of Bangladesh Chemical Society), 31(2), 49-57, 2019
85. Md Mirajul Islam, Md Arifuzzaman, Md Monjur Rahman, Mohammad Atiar Rahman and Sarkar M. A. Kawsar. Novel Methyl 4,6-*O*-Benzylidene- $\alpha$ -D-Glucopyranoside Derivatives: Synthesis, Structural Characterization and Evaluation of Antibacterial Activities, *Hacettepe Journal of Biology and Chemistry*, 47(2), 153-164, 2019
84. Monjur Rahman, Mirajul Islam, Md Arifuzzaman, Jannatul Ferdous, Mohammad A. Rahman, Imtiaj Hasan, A.K.M. Asaduzzaman and Sarkar M. A. Kawsar. Two steps synthesis of uracil-1-  $\beta$ -D-ribofuranoside esters: Characterization, Antibacterial and Anticancer Activities, *Journal of the Bangladesh Chemical Society* (Official Journal of Bangladesh Chemical Society), 30(1), 46-56, 2019
83. Sumi R. Devi, Sanjida Jesmin, Mahfuz Rahman, Mohammad A. Manchur, Yuki Fujii, Robert A Kanaly, Yasuhiro Ozeki, **Sarkar M. A. Kawsar**, Microbial Efficacy and Two Step Synthesis of Uridine Derivatives with Spectral Characterization, *ACTA Pharmaceutica Scientia* (TÜRKİYE), 57(1), 47-68, 2019
- 2018
82. Shagir A. Chowdhury, Priyanka Chakraborty, **Sarkar M. A. Kawsar**, M. M. H. Bhuiyan, M. M. Matin. Regioselective acylation, Pass prediction and Antimicrobial Properties of some Protected Glucopyranosides, *Journal of the Bangladesh Chemical Society* (Official Journal of Bangladesh Chemical Society), 30(1), 01-09, 2018
81. Yuki Fujii, Marco Gerdol, Imtiaj Hasan, Yasuhiro Koide, Risa Matsuzaki, Mayu Ikeda, Sultana Rajia, Yukiko Ogawa, **Sarkar M. A. Kawsar**, Yasuhiro Ozeki. Phylogeny and properties of a novel lectin family with  $\beta$ -trefoil folding in mussels, *Trends in Glycosciences and Glycotechnology* (TIGG) (Japan), 30(177), E195-E208, 2018
80. **Sarkar M. A. Kawsar**, Md M. Rahman, Mariam Islam, Mohammad A. Manchur, Imtiaj Hasan, Sultana Rajia. An *in vitro* assessment of antibacterial, antifungal and cytotoxic effects of D-glucopyranoside derivatives, *International Journal of Biosciences* (Bangladesh), 12(6), 408-416, 2018
79. Md Arifuzzaman, Md Mirajul Islam, Md Monjur Rahman, Mohammad Atiar Rahman, **Sarkar M. A. Kawsar**. An Efficient Approach to the Synthesis of Thymidine Derivatives Containing Various Acyl Groups: Characterization and Antibacterial Activities, *ACTA Pharmaceutica Scientia* (TÜRKİYE), 56(4), 7-22, 2018

78. **Sarkar M. A. Kawsar**, Mariam Islam, Sanjida Jesmin, Mohammad A. Manchur, Intiaj Hasan, Sultana Rajia. Evaluation of the antimicrobial activity and cytotoxic effect of some uridine derivatives, *International Journal of Biosciences* (Bangladesh), 12(6), 211-219, 2018

## 2017

77. Rahman M, Sanjida J, Sumi R. Devi, Rahman M, Mariam Islam, Hossain M. K, Kanaly A. R, Fuji Y, Hayashi N, Ozeki Y, **Sarkar M. A. Kawsar**, Selective acylation of some carbohydrate derivatives using the direct method, *Journal of the Bangladesh Chemical Society* (Official Journal of Bangladesh Chemical Society), 29(2), 21-28, 2017
76. Sanjida J, Sumi R. Devi, Rahman M, Mariam Islam, Kanaly A. R, Fuji Y, Hayashi N, Ozeki Y, **Sarkar M. A. Kawsar**, An efficient synthesis and spectroscopic characterization of some uridine derivatives, *Journal of the Bangladesh Chemical Society* (Official Journal of Bangladesh Chemical Society), 29(2), 12-20, 2017
75. Fujii Y, Fujiwara T, Koide Y, Hasan I, Sugawara S, Rajia S, **Sarkar M. A. Kawsar**, Yamamoto D, Araki D, Kanaly RA, Ogawa Y, Fujita H, Ozeki Y., Internalization of a novel, huge lectin from *Ibacus novemdentatus* (slipper lobster) induces apoptosis of mammalian cancer cells, *Glycoconjugate Journal* (Springer, USA), 34(1), 85-94, 2017

## 2016

74. Hasan I., Gerdol M., Fujii Y., Rajia S., Koide Y., Yamamoto D., **Sarkar M. A. Kawsar**, Ozeki Y, cDNA and gene structure of MytiLec-1, A bacteriostatic R-type lectin from the Mediterranean mussel (*Mytilus galloprovincialis*), *Marine Drugs* (MDPI, Basel, Switzerland), 14(5), 92-105, 2016
73. **Sarkar M. A. Kawsar**, S. S. B. S. Nishat, M. A. Manchur, Y. Ozeki, Benzenesulfonylation of Methyl  $\alpha$ -D-Glucopyranoside: Synthesis, Characterization and Antibacterial Screening, *International Letters of Chemistry, Physics and Astronomy* (SciPress, Switzerland), 64, 95-105, 2016
72. Shagir A. C., Bhuiyan M. M. R., Ozek Y., **Sarkar M. A. Kawsar**, Simple and rapid synthesis of some nucleoside derivatives: structural and spectral characterization, *Current Chemistry Letters* (Growing Science, Poland), 5(2), 83-92, 2016

## 2015

71. **Sarkar M. A. Kawsar**, Refat Asma, Khaleda Mymona, Mohammad Abul Manchur, Intiaj Hasan and Yasuhiro Ozeki., Synthesis, Reactions, Spectral Behavior and Biological Evaluation of Some New D-Glucopyranoside Derivatives as Potential Antimicrobial Agents, *Hacettepe Journal of Biology and Chemistry* (Official Journal of Faculty of Science, Hacettepe University, Turkey), 43(4), 309-322, 2015
70. Hasan I., Sugawara S., Fujii Y., Koide Y., Terada D., Iimura N., Fujiwara T., Takahashi K. G., Kojima N., Rajia S., **Sarkar M. A. Kawsar**, Kanaly R. A., Uchiyama H., Hosono M., Ogawa Y., Fujita H., Hamako J., Matsui T., and Ozeki Y., MytiLec, a mussel R-type lectin, interacts with surface glycan Gb3 on Burkitt's

lymphoma cells to trigger apoptosis through multiple pathways, *Marine Drugs* (MDPI, Basel, Switzerland), 13(12), 7377-7389, 2015

69. **Sarkar M. A. Kawsar**, Hamida A. A., Sheikh A. U., Hossain M. K., Shagir A. C., Sanaullah A. F. M., Manchur M. A., Imtiaj H., Ogawa Y., Fujii Y., Koide Y., Ozeki Y., Chemically Modified Uridine Molecules Incorporating Acyl Residues to Enhance Antibacterial and Cytotoxic Activities, *International Journal of Organic Chemistry*, (Scientific Research, USA), 5(4), 232-245, 2015
68. **Sarkar M. A. Kawsar**, Sharif U., Manchur M. A., Fujii Y., Ozeki Y., Acylation of D-glucose Derivatives over C<sub>5</sub>H<sub>5</sub>N: Spectral Characterization and *In vitro* Antibacterial Activities, *International Journal of Biological Chemistry*, (Academic Journals Inc., Science Alert), 9(6), 269-282, 2015
67. **Sarkar M. A. Kawsar**, Sharif U., Samia S. B. S. N., Manchur M. A., Ozeki Y., Synthesis, Characterization and Antibacterial Susceptibility of Some Benzenesulfonyl and N-acetylsulfanyl Derivatives of Methyl  $\alpha$ -D-glucopyranoside, *Current Research in Chemistry*, (Knowledge Review, Malaysia), 7(2), 21-33, 2015
66. **Sarkar M. A. Kawsar**, Khaleda M., Refat A., Manchur M. A., Koide Y., Ozeki Y., Infrared, <sup>1</sup>H-NMR Spectral Studies of some Methyl 6-O-Myristoyl- $\alpha$ -D-Glucopyranoside Derivatives: Assessment of Antimicrobial Effects, *International Letters of Chemistry, Physics and Astronomy*, (SciPress, Switzerland, 58, 122-136, 2015
65. Koide Y., Hasan I., Asanuma A., Fujii Y., Ogawa Y., Kobayashi H., Rajia S., **Sarkar M. A. Kawsar**, Kanaly R. A., Ozeki Y. Expression of various types of glycans in the Lugworm (*Perinereis nunta* Var. *Vallata*), *Annals of Marine Biology and Research*, California, USA, 2(1), 1005 (ID), 2015
64. Hasan I., Watanabe M., Ishizaki N., Sugita-Konishi Y., Kawakami Y., Suzuki J., Dogasaki C., Rajia S., **Sarkar M. A. Kawsar**, Koide Y., Kanaly R. A., Sugawara S., Hosono M., Ogawa Y., Fujii Y., Iriko H., Hamako J., Matsui T., Ozeki Y., A galactose-binding lectin isolated from *Aplysia kurodai* (Sea Hare) eggs inhibits streptolysin-induced hemolysis, *Molecules*, Switzerland, 19(9), 13990-14003, 2014
63. **Sarkar M. A. Kawsar**, Faruk M. O., Mostafa G., Rahman M.S., Synthesis and spectroscopic characterization of some novel acylated carbohydrate derivatives and evaluation of their antimicrobial activities, *Chemistry and Biology Interface*, India, 4(1), 37-47, 2014
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61. **Sarkar M. A. Kawsar**, Jannatul Ferdous, Mostafa G., Manchur M. A., A Synthetic Approach of D-glucose Derivatives: Spectral Characterization and Antimicrobial Studies, *Chemistry and Chemical Technology Journal*, Ukraine, 8(1), 19-27, 2014
60. **Sarkar M. A. Kawsar**, Faruk M. O., Rahman M. S., Fujii Y., Ozeki Y., Regioselective Synthesis, Characterization and Antimicrobial Activities of Some New Monosaccharide Derivatives, *Scientia Pharmaceutica*, Austria, 82(1), 1-20, 2014

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59. **Sarkar M. A. Kawsar**, Hasan T., Chowdhury S. A., Islam M. M., Hossain M. K., Manchur M. A., Synthesis, Spectroscopic Characterization and *in vitro* Antibacterial Screening of some D-Glucose Derivatives, *International Journal of Pure and Applied Chemistry*, Turkey, 8(2), 125-135, 2013
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57. **Sarkar M. A. Kawsar**, Islam M. M., Chowdhury S. A., Hasan T., Hossain M. K., Manchur M. A., Ozeki Y., Design and newly synthesis of some 1,2-*O*-isopropylidene- $\alpha$ -D-glucofuranose derivatives: characterization and antibacterial screening studies, *Hacettepe Journal of Biology and Chemistry*, Turkey, 41(3), 195-206, 2013
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## PROCEEDINGS

### *(Proceedings to the International/national Journals)*

- 15) **Sarkar M. A. Kawsar**, Synthesis Physicochemical and Evaluation of Antimicrobial and Anticancer Activities of some D-glucose Derivatives. *Journal of Science and Technology Research*, 02(1), 72-80, 2019 (Sponsor by Ministry of Science and Technology, Govt. of the People's Republic of Bangladesh)
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**PRESENTATIONS***(Oral / Poster)*

- 2020** Kaniz Fatema, Sumaya Mahjabin Moon, Shanur Hasan, Md. Helal Uddin, Kizar Ahmed, **Sarkar M. A. Kawsar**, Ramji Bhandari, Prof. Arakawa, Harunur Rashid. "Plastic Pollution in the Northern Bay of Bengal, Bangladesh Coast". SETAC (Society of Environmental Toxicology and Chemistry), North America 41<sup>st</sup> Annual Meeting, 15-19 November 2020, Pensacola, FL, USA.
- 2020 (47)** Yuki Fujii, Marco Gerdol, Kenichi Kamata, Intiaj Hasan, Daiki Terada, Roberta Marchetti, **Sarkar M. A. Kawsar**, Ryo Matsumoto, Tsuyoshi Konuma, Tatsusada Yoshida, Sultana Rajia, Yasuhiro Koide, Kenji Mizutani, Alberto Pallavicini, Yukiko Ogawa, Sam-Yong Park, Takahisa Ikegami, Hideaki Fujita, Jeremy Tame and Yasuhiro Ozeki. Structural and Functional Diversity of Marine Invertebrate Lectins. Symposium for Structural Glycobiology, 2020 World Conference on Protein Science, Sapporo, 6-10 July 2020, Japan ([https://www.yokohama-cu.ac.jp/news/2020/200417\\_oozeki.html](https://www.yokohama-cu.ac.jp/news/2020/200417_oozeki.html))
- 2020** Faez Ahmmed, **Sarkar M. A. Kawsar**. Synthesis and Modification of some Methyl  $\beta$ -D-galactopyranoside with Computational and Biological Assessment. International Conference on Recent Advances in Chemistry (ICRAC), 7-8 February 2020, OP-B-06, page 37, Department of Chemistry, Jagannath University, Bangladesh.
- 2020** Ripon C. Bhowmic, **Sarkar M. A. Kawsar**. A Direct Chemical Synthesis for a New Series of Benzylidene Derivatives as Potential Antimicrobial Agents. International Conference on Recent Advances in Chemistry (ICRAC), 7-8 February 2020, PP-B-27, page 153, Department of Chemistry, Jagannath University, Bangladesh.
- 2019** **Sarkar M. A. Kawsar**. Health and safety, working with liquids, flammable and solid toxicants; Good laboratory practices. Jamal Nazrul Islam Research Centre for Mathematical and Physical Sciences (JNIRCMPS) Training Program-2019, 22 October 2019, University of Chittagong, Supported: Ministry of Planning, Bangladesh.
- 2019** Anis-ul-Islam, Jannatul Ferdous, Faez Ahmmed, Mohammad R. Kayes, Matiur Rahman, Sabina Akter, Nasrin Akter, **Sarkar M. A. Kawsar**. Challenges in Carbohydrate Derivatives for Antimicrobial Drug Discovery. Bangladesh Chemical Society Conference-2019, (42<sup>nd</sup> Annual General Meeting of BCS-2019), 9-10 November 2019, OC-PP-02, page 149-150, Rajshahi University, Bangladesh.
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- 2019** Asraful Alam, **Sarkar M. A. Kawsar**. Synthesis of Thymidine Derivatives for Potential Drug Candidates. Bangladesh Chemical Society Conference-2019, (42<sup>nd</sup> Annual General Meeting of BCS-2019), 9-10 November 2019, OC-PP-08, page 152-153, Rajshahi University, Bangladesh.
- 2019** Ripon C. Bhowmic, **Sarkar M. A. Kawsar**. Synthetic Approach to Prepare some Monosaccharide Esters for Pharmaceutical Uses. Bangladesh Chemical Society Conference-2019, (42<sup>nd</sup> Annual General Meeting of BCS-2019), 9-10 November 2019, OC-OP-04, page 91, Rajshahi University, Bangladesh.

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- 2018** Mohammed A. Hosen, Anis-ul-Islam, Rehnuma Tabassum, Nasrin S. Munia, Ripon C. Bhowmic, Faez Ahmmed, Mohammad R. Kayes, **Sarkar M. A. Kawsar**. Synthesis, Characterization, DFT, Drug Design and Antimicrobial Studies of Some Monosaccharide Esters. Bangladesh Chemical Congress-2018. 39<sup>th</sup> Annual Conference of Bangladesh Chemical Society, 17-19 October 2018, PP-50, page 111, Dhaka University, Bangladesh.
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**PERSONAL INFORMATION**

Father's name : Abdur Rashid Sarkar  
 Mother's name : Mrs. Delwara Rashid  
 Permanent address : Village & P.O.: Susunda  
 : P.S.: Muradnagar & District: Comilla, Bangladesh  
 Date of birth : 01/01/1972  
 Nationality : Bangladeshi by birth  
 Highest/weight : 175 cm/ 76 kg  
 Marital status : Married  
 Religion : Islam  
 Family data : Wife- Mrs. Morium Kawsar (Masters in Social  
 Science)  
 : Son- S. M. Mahir Absar Bin Kawsar  
 : Son- S. M. Affan Anas Bin Kawsar

**INTEREST**

Reading, Music, Hill climbing, Traveling and Sports (Cricket, Football)

**LANGUAGE AND COMPUTER EFFICIENCY**

- i) English, Japanese, Germany, Arabic, Bengali (speaking, reading and writing well)
- ii) MS Word, Excel, Power point, Chem draw, ISIS draws, Adobe Photoshop etc.

**REFERENCES**

- 1) **Professor Dr. Yasuhiro Ozeki**  
 Chairman, Department of Genome System Science  
 Graduate School of NanoBiosciences  
 Yokohama City University, 22-2 Seto, Kanazawa-ku  
 Yokohama 236-0027, Japan  
 E-mail: [ozeki@yokohama-cu.ac.jp](mailto:ozeki@yokohama-cu.ac.jp)
- 2) **Professor Dr. Nilufar Nahar**  
 Ex. Chairman  
 Department of Chemistry  
 Dhaka University, Bangladesh  
 E-mail: [naharnilufar51@gmail.com](mailto:naharnilufar51@gmail.com) or [mnahar1951@gmail.com](mailto:mnahar1951@gmail.com)

(Prof. Dr. S. M. Abe Kawsar)  
 21 January, 2021