

RESUME OF PROF. MD. MOKLESUR RAHMAN SARKER, PhD



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BIOGRAPHY AT A GLANCE

- **Academic degree:** Ph. D. in Pharmaceutical Sciences (Research in Immunopharmacology), Master of Pharmacy (Thesis: Ethnopharmacology), and Bachelor of Pharmacy (Hons.) degrees.
- **Job Experience:** Twenty years' teaching, research and professional working experiences in universities, research institutes and pharmaceutical industries.
- Skilled in **High Impact Research Design and Supervision;** Expert in **Immunological, Pharmacological, Toxicological, and Clinical studies in cell lines, Animal models and Human subjects,** Drug discovery & Development, Formulation, Standardization and Evaluation of Traditional medicine/Herbal medicine/Nutraceuticals/Functional foods, Research on Emerging Public Health issues - Cancer, Diabetes, Obesity, Kidney diseases, Cardiovascular diseases, Hyperlipidemia, etc.
- **Present position:** Professor and Head, Academic & Research, Dept. of Pharmacy, State Univ. of Bangladesh Chief Scientist, Health Med Science Research Limited, Dhaka, Bangladesh
- **Publications:** Articles published in peer reviewed journals: 88, Conference abstracts: 22, Oral/poster presentation: 19, H-Index: 16, Citations: 724, i10-index: 25, Popular articles published in other journals/periodicals/magazines:12.
- **Research Area and Interest:** Immunostimulating agents; Diabetes, Antidiabetic drugs; Cancer, Anticancer drugs; Lipid lowering drugs; Functional foods, Nutraceuticals; Prophetic medicines; Traditional and Herbal Medicines, Rational use of drugs, Antibiotic Resistance, Pharmacy education, and Anti-smoking research.
- **Research Grants** (Obtained 15 Grants: Few mentioned below) :
 1. Project Director, Special Research Grant for the development of Immunobooster against COVID-19 infections, Ministry of Science and Technology, Govt. of Bangladesh (BDT 2,00,000) 2020-2021
 2. Project Director, Special Research Grant for the development of Antidiabetic medication, Ministry of Science and Technology, Govt. of Bangladesh (BDT 2,00,000) 2019-2020
 3. Project Leader, BKP Research Grant, University of Malaya in 2014 (Malaysian Ringgit 35,000) 2014-15
 4. Project leader of High Impact Research Grant, University of Malaya, Malaysia (Ringgit 80,000) 2013-14
 5. Principal Investigator, Research grant for Development and Evaluation of Anticancer Prophetic medicine funded by MABL Chair for Prophetic Medicine, Taibah University, Saudi Arabia (USD 44 K) 2015-16.
- **Current research projects and supervision:** Current/in-progress research projects 15: Currently supervising 1 PhD, 12 Master and 4 Bachelor of Pharmacy students, and 10 funded/sponsored research projects.
- **Research projects completed:** 82 different research projects already completed. In the past, I have pursued my own research as well as supervised 1 Post-Doc, 3 PhD, 90 Postgraduate and 69 undergraduate students.
- **Editorial Board Member and Reviewer of Peer Reviewed International Journals:** 25 peer reviewed international journals as an Editor-in-Chief or Editorial Board Member or Associate Editor or Reviewer.
- **Patents:** Inventor of 3 PATENTS - antidiabetic, lipid lowering and immunostimulating agents/preparations.
- **Conference/seminar attended:** 23.
- **Workshops conducted as Invited Speaker:** 03 (Organized by QIUP, UKM, MSPT-USM in Malaysia)
- **Membership in or affiliation with professional societies:** 13
- **GCP (Good Clinical Practice):** Obtained GCP certificate issued by the Director General of Health, Malaysia, to conduct clinical studies/trials as a Clinical Researcher.
- **Professional Recognition:** Biography is listed in the Marquis Who's Who in the World 2016 (33rd Edition) (VIP Number: 37008993).

ACADEMIC BACKGROUND

Ph. D. in Pharmaceutical Sciences (Pharmacology) (Apr 2007 - Mar 2010) (Degree received: March 2010)

Awarded with the highest Academic grade: A (80-100% marks)

Department of Immunochemistry, Faculty of Pharmaceutical Sciences, Okayama University, Japan

Master of Pharmacy (with thesis) (Degree received: March 2001)

Department of Pharmacy, Jahangirnagar University, Bangladesh

Exam of 1996 held in 2000 (Obtained First Class)

Bachelor of Pharmacy (Hons.) (Degree received: October 1998)

Department of Pharmacy, Jahangirnagar University, Bangladesh

Exam of 1995 held in 1998 (Obtained Upper Second Class)

Higher Secondary Certificate (HSC) in 1991 (First Division)

Govt. Carmichael College, Rangpur, Rajshahi Board, Bangladesh.

Secondary School Certificate (SSC) in 1989 (First Division)

Kadirabad High School, Rangpur, Rajshahi Board, Bangladesh.

EMPLOYMENT RECORDS

- **Professor and Head, Academic and Research** (22 January 2017 – Present)
Department of Pharmacy, State University of Bangladesh, Dhaka, Bangladesh
- **Chief Scientist** (January 2019-Present)
Health Med Science Research Ltd., Dhaka, Bangladesh
- **Honorary Faculty Member** (15 November 2018 - Present)
Novel Global Community Education Foundation, Australia
- **Associate Professor and Head of Pharmacology Dept.** (01 Dec 2014 – 30 Dec 2016)
Faculty of Pharmacy, Lincoln University College, Malaysia
- **Visiting Research Fellow & Principal Investigator (Antidiabetic Drug Research)**
(01 August 2013 – 30 November 2014)
Clinical Investigation Centre, Faculty of Medicine, University of Malaya, Malaysia
- **Assistant Professor** (08 March 2012 - 30 July 2013)
Department of Pharmacy, Primeasia University, Dhaka, Bangladesh
- **Assistant Professor and Head of the Department** (15 February 2011 - 07 March 2012)
Department of Pharmacy, Daffodil International University, Dhaka, Bangladesh
- **Assistant Professor** (01 June 2010 – 14 February 2011)
Department of Pharmacy, World University of Bangladesh, Dhaka, Bangladesh
- **Assistant Manager and Head of Research & Development (R&D)** (01 Jan 2003 - 31 January 2007)
Biopharma Laboratories Limited, Dhaka, Bangladesh
- **Production Officer and Sr. Production Officer** (01 April 2000 - 31 December 2002)
Apollo Pharmaceuticals Laboratories Limited, Dhaka, Bangladesh

PROFESSIONAL CERTIFICATION

1. **Registered “A” Grade Pharmacist** (“A” 1920/99) licensed by Pharmacy Council of Bangladesh in 1999.
2. **GCP certificate** obtained from DG Health, Ministry of Health (Malaysia), to conduct clinical trials.

PROFESSIONAL RECOGNITION

Biography published in the *Marquis Who’s Who in the World 2016* (33rd Edition) (VIP No: 37008993).

ADMINISTRATIVE POSITIONS/UNIVERSITY COMMITTEE

- Head of Academic & Research, Dept. of Pharmacy, State University of Bangladesh (Jan 2017 - present).
- Chief Scientist, Health Med Science Research Limited (A research based company in Bangladesh) (since January 2019-Present)
- Director, Institutional Quality Assurance Cell (IQAC), State University of Bangladesh (Dec 2017-Dec 2018)
- Head, International Collaboration & Accreditation, State University of Bangladesh (Jan 2017 - June 2019).
- Head, Research Policy and Publication Committee, State University of Bangladesh (June 2017 - till date)
- Head, Animal Ethics Committee, State University of Bangladesh (Since November 2017- till date)
- Member, Human Ethics Committee, State University of Bangladesh (November 2017- till date)
- Member, Academic Committee, State University of Bangladesh (Jan 2017 - till date).
- Head, Bachelor and Masters Curriculum and Syllabus Committee, Dept. of Pharmacy, SUB (Mar 2017 – April 2019).
- Head, IQAC Self-Assessment Committee, Dept. of Pharmacy, State University of Bangladesh (Apr 2017 – Nov 2017).
- Head, Department of Pharmacology, Faculty of Pharmacy, Lincoln University College Malaysia (Dec 2014 – Dec 2016).
- Chairman, Animal Ethics Committee, Lincoln University College, Malaysia (Jul 2015 – Dec 2016).
- Head, Animal Experiment Facility, Lincoln University College, Malaysia (Feb 2015 – Dec 2016).
- Member, Human Ethics Committee, Lincoln University College, Malaysia (Jan 2016 – Dec 2016).
- Coordinator for Journal and Publication, Lincoln University College, Malaysia (Oct 2015 – Dec 2016).
- Member, Lincoln University Post Grad Thesis Evaluation Committee (Jan 2015- Dec 2016).
- Member, Faculty of Pharmacy Curriculum Review Committee, Lincoln University, Malaysia (Jan 2015 – Dec 2016).
- Member, Faculty of Pharmacy Examination Committee, Lincoln University, Malaysia (Jan 2016 – Dec 2016).
- Team leader for Good Manufacturing Practice (GMP) and member of Steering Committee of MAXURA Healthcare Sdn. Bhd. (the research and commercialization of herbal and cosmetic manufacturing plant of Lincoln University, Malaysia) (Jan 2015 – Dec 2016).
- Coordinator, Faculty of Pharmacy Post Graduate Program, Lincoln University College, Malaysia (Feb 2016 – Aug 2016).
- Coordinator, Curriculum committee for Master in Tissue Engineering program (new) under the Faculty of Medicine in the University of Malaya (2014).
- Head, Department of Pharmacy, Daffodil International University, Bangladesh (Feb 2011 - Mar 2012).
- Coordinator, Curriculum committee for M. Pharm. program (new), Dept. of Pharmacy, Faculty of Science & Technology in Daffodil International University, Bangladesh (2011).

RESEARCH EXPERIENCES

- 1. Research Supervisor/Project Leader of Many Research Projects:** I am quite experienced in supervising research projects of Post-Doctoral, PhD, Master and Bachelor students in Pharmaceutical and Medical Sciences. Besides, I have supervised/conducted research projects/worked as the Principal Investigator (PI)/Project Director of several industry/academia/organizations/private and public institutions funded research projects.
- 2. Representative Researcher and Principal Investigator (1 year) on Prophetic Medicine Research:** Worked as Representative Researcher of a research project entitled “*Antitumor and immunopotentiating activity of a novel formulation from Prophetic medicine against Glioblastoma multiforme brain tumor*” funded by MABL Chair for Scientific Miracles of Prophetic Medicine, Taibah University, Ministry of Higher Education, Saudi Arabia (2016).
- 3. Principal Investigator (1 year 6 months) of High Impact Research in University of Malaya:** Conducted a High Impact Research (HIR) project as PI in the Faculty of Medicine, University Malaya entitled “*The efficacy and safety of sitagliptin in animal model*” funded by HIR Grants, Ministry of Higher Education Malaysia & University Malaya (2014).
- 4. Principal Investigator (1 year) of another HIR Project in University of Malaya:** Conducted another High Impact Research (HIR) project as PI entitled “*The effect of physical exercise on tissue, bone marrow, organs in type 2 diabetic SD rats*” funded by HIR grants, Ministry of Higher Education, Malaysia and University of Malaya (2014).
- 5. Ph. D. Scholar (3 years):** I have pursued PhD research entitled “*Studies on the Enhancement of Antigen-Specific Antibody Production in Murine B Cells by the Extract of Bell Pepper (Flesh)*” in the Dept. of Immunochemistry, Faculty of Pharmaceutical Sciences, Okayama University, Japan (2010).
- 6. Post-Graduate Researcher - Research Project:** I have pursued a research project entitled “*Preliminary screening of indigenous plants’ extracts from Bangladesh on polyclonal IgM antibody production and proliferation of murine splenic cells in vitro*” as a Research Scholar in the Faculty of Pharmaceutical Sciences, Okayama University, Japan (2010).
- 7. Post-Graduate Researcher - Research Project:** I have pursued this research as a Post-Graduate Research Scholar in the Faculty of Pharmaceutical Sciences, Okayama University, Japan (2009) entitled “*Assessment of immunostimulating activity of 36 Ayurvedic preparations for the production of antibody and proliferation of splenic B cells in vitro*”.
- 8. Post-Graduate Researcher - Research Project:** I have pursued a research project entitled “*Evaluation of anticancer and immunostimulating potentiality of keyhole limpet hemocyanin (KLH) in vitro and in vivo*” in the Faculty of Pharmaceutical Sciences, Okayama University, Japan (2008).
- 9. Research Scholar (2 months):** *Studies on the Regulatory Substances for the Differentiation of B Cells to Plasma Cells.* I have pursued this research as a Research Scholar, Department of Life Science and Drug Discovery, Faculty of Pharmaceutical Sciences, Okayama University, Japan (2007).
- 10. Post-Graduate Researcher:** *Preliminary evaluation of immunostimulating activities of some popular fruits of Bangladesh for IgM antibody production and proliferation of B cells in vitro.* I have pursued this research as a Research Scholar, Faculty of Pharm. Sciences, Okayama University, Japan (2007).
- 11. Post-Graduate Research Scholar (4 months) at Cheju National University, South Korea:** *Investigations of anticancer properties of marine plants for the invention of novel anticancer agents.* I have pursued this research as a Post-Graduate Research Scholar in the Laboratory of Molecular Biology, Dept. of Life Sciences, Cheju National University, South Korea (2003).

RESEARCH SUPERVISING SKILLS

- 1. Currently supervising:** Research projects of 1 PhD, 6 Master of Pharmacy (thesis group), 8 Master of Pharmacy (project group), 6 Bachelor of Pharmacy students, and 10 funded research projects in different academic and research institutions in Bangladesh, Malaysia, China and Saudi Arabia.
- 2. Supervised research projects:** In the past, I have completed 90 academic and sponsored research projects and supervised 1 Post Doc, 3 PhD students, 90 postgraduate and 62 undergraduate students.

LIST OF PhD RESEARCH PROJECTS SUPERVISED (3)

- 1) Title of the thesis: **Investigations of anti-hyperglycemic and anti-lipidemic activity of *Brassica oleracea* in type 1 and type 2 diabetic Sprague-Dawley rats and isolation of active ingredients.**
As main supervisor (Faculty of Pharmacy, Lincoln University College, Malaysia) - completed in 2016.
- 2) Title of the thesis: **Investigation of antidiabetic and antilipidemic potential of isolated flavonoids from *Pericampylus glaucus* Lamk Merr in type 2 diabetic Sprague-Dawley (SD) rats.**
As co-supervisor (Faculty of Pharmacy, Lincoln University College, Malaysia) -completed in 2016.
- 3) Title of the thesis: **Adaptogenic and Nootropic potential of isolated flavonoids from *Epipremnum aureum* in Sprague-Dawley rats.**
As co-supervisor (Faculty of Pharmacy, Lincoln University College, Malaysia) - Completed in 2016.

**MASTERS RESEARCH PROJECTS SUPERVISED (40 PROJECTS: 90 STUDENTS)
(SELECTED RESEARCH PROJECTS ARE LISTED HERE)**

- 1) **Research Supervisor**
Project title: **A cross-sectional survey study on knowledge, awareness, attitude and practice to COVID-19 among the people of Bangladesh**
State University of Bangladesh; project completed in November 2020.
- 2) **Research Supervisor**
Project title: **Impact of COVID-19 in Bangladesh on the treatment and healthcare of patient with chronic kidney diseases, cardiovascular diseases and cancer: a cross sectional study**
State University of Bangladesh; project completed in November 2020.
- 3) **Research Supervisor**
Project title: **Study of occupational risk and psychological status of nurses working in hospitals and clinics in Bangladesh at the pandemic of COVID-19**
State University of Bangladesh; project completed in November 2020.
- 4) **Research Supervisor**
Project title: **An assessment of the effectiveness and obstacle of online education in Bangladesh during COVID-19: A cross sectional study among undergraduate and graduate students**
State University of Bangladesh; project completed in November 2020.
- 5) **Research Supervisor**
Project title: **Study of anxiety, depression and stress of Pharmacy students of Bangladesh during the pandemic of COVID 19**
State University of Bangladesh; project completed in October 2020.
- 6) **Research Supervisor**
Project title: **Study of the knowledge, awareness, attitude and practice to COVID-19 among the University students in Bangladesh**
State University of Bangladesh; project completed in November 2020.
- 7) **Research Supervisor**
Project title: **Knowledge and perception of Pharmacy students of private and public universities in Bangladesh towards Pharmacovigilance and Adverse Drug Reactions (ADRs)**
State University of Bangladesh; project completed in October 2020.
- 8) **Research Supervisor**
Project title: **A cross-sectional survey study on the knowledge, awareness, attitude and practice of University students on COVID-19**
State University of Bangladesh; project completed in October 2020.
- 9) **Research Supervisor**
Project title: **Occupational safety/risk of Pharmacists in Bangladesh at the pandemic of COVID-19: A cross-sectional study.**
State University of Bangladesh; project completed in November 2020.

- 10) **Research Supervisor**
Project title: **A cross-sectional study of knowledge, awareness, attitude, perception, practice and acceptability of Telemedicine among the people of Bangladesh during the pandemic of COVID-19**
State University of Bangladesh; project completed in November 2020.
- 11) **Research Supervisor**
Project title: **Study of occupational safety/risk, stress, anxiety, depression and psychological assessment of doctors, Pharmacists, Nurses, and other healthcare workers working at different hospitals and clinics in Bangladesh during the pandemic of COVID-19**
State University of Bangladesh; project completed in November 2020.
- 12) **Research Supervisor**
Thesis title: **Knowledge, attitude and practice of antibiotic self-medication among Pharmacy and Non-Pharmacy students in Bangladesh.**
State University of Bangladesh; project completed in September 2019.
- 13) **Thesis Supervisor**
Thesis title: **Study of toxicity and immunostimulatory activities of Gano mushroom (*Ganoderma lucidum*)-based novel formulation of functional foods in experimental Swiss albino rats**
State University of Bangladesh; thesis completed in September 2019.
- 14) **Thesis Supervisor**
Thesis title: **Comprehensive *in-vitro* and *in-vivo* Pharmacological evaluation of *Moringa oleifera* leaves extract and it's fractions (Family- Moringaceae).**
State University of Bangladesh; thesis completed in January 2019.
- 15) **Thesis Supervisor**
Thesis title: **Pharmacological and toxicological evaluations of methanol extract of *Syzygium cumini* (L.) seeds and it's different non-aqueous and aqueous fractions in Wister Rats.**
State University of Bangladesh; thesis completed in January 2019.
- 16) **Thesis Supervisor**
Thesis title: **Comprehensive evaluation of *in vitro* and *in vivo* Pharmacological activities of *Piper Betle* leaves extract and it's different non-aqueous and aqueous fractions (Family- Piperaceae).**
State University of Bangladesh; thesis completed in January 2019.
- 17) **Thesis Supervisor**
Thesis title: **Toxicological and Pharmacological studies of *Spirulina (Arthrospira platensis)* based formulation of medicinal foods in experimental Swiss Albino rats.**
State University of Bangladesh; thesis completed in January 2019.
- 18) **Thesis Supervisor**
Thesis title: **Isolation of bioactive compounds & biological investigation *Bacopa monnieri* (L.) (Family: Scrophulariaceae)**
State University of Bangladesh; thesis completed in January 2019.
- 19) **Thesis Supervisor**
Project title: **Studies on *in-vitro* and *in-vivo* Pharmacological activities of *Gynura procumbens* (Lour.) Merr. leaves extracts and its fractions.**
State University of Bangladesh; thesis completed in January 2019.
- 20) **Thesis Supervisor**
Thesis title: ***In vitro* and *in vivo* Pharmacological investigations of *Momordica charantia* L. fruit extracts and its fractions.**
State University of Bangladesh; thesis completed in January 2019.
- 21) **Research Supervisor**
Project title: **Study on trend of medications prescribe for diabetes patients in Bangladesh-A cross sectional study at tertiary hospitals and clinics in Dhaka city.**
State University of Bangladesh; project completed in February 2019.

- 22) **Research Supervisor**
Project title: **Study on infra-structure, management systems and quality of services of Model Pharmacy and Medicine Shops operating at Dhaka City in Bangladesh.**
State University of Bangladesh; project completed in February 2019.
- 23) **Research Supervisor**
Project title: **Trend and rationality of medications offered for patients with CVD in Bangladesh.**
State University of Bangladesh; project completed in January 2019.
- 24) **Research Supervisor**
Project title: **Study on trend of medications prescribe for diabetes patients in Bangladesh-A cross sectional study of diabetes outpatients from different hospitals and clinics in Dhaka city.**
State University of Bangladesh; project completed in February 2019.
- 25) **Research Supervisor**
Project title: **Determinants of cigarette smoking and impact of warnings on cigarette packs for the reduction of smoking among male smokers in Bangladesh - A cross sectional study.**
State University of Bangladesh; project completed in August 2018.
- 26) **Research Supervisor**
Project title: **Prevalence, risk factors, knowledge of and prevention activities against gestational diabetes mellitus among women receive antenatal care (ANC) services from private and govt. hospitals in Dhaka city: a cross-sectional study.**
State University of Bangladesh; project completed in December 2017.
- 27) **Research Supervisor**
Project title: **Prescribing frequency, pattern and rationality of antibiotics prescribed by the general physicians practicing in government and private hospitals in Dhaka city.**
State University of Bangladesh; project completed in April 2018.
- 28) **Research Supervisor**
Project title: **Determinants of antibiotics misuse by retail pharmacy sales in different regions of Dhaka city: a cross-sectional study.**
State University of Bangladesh; project completed in April 2018.
- 29) **Research Supervisor**
Project title: **Study of diabetes related complications and risk factors associated with type 2 diabetes mellitus, and the type of medications received by diabetic patients in Bangladesh.**
State University of Bangladesh; project completed in December 2017.
- 30) **Research Supervisor**
Project title: **Evaluation of a novel formulation of functional foods for hypoglycemic and weight loss activity in Balb/c mice feed with high-fat-diet.**
Lincoln University College, Malaysia; project completed in November 2016.
- 31) **Research Supervisor**
Project title: **Studies of the antidiabetic potential of a novel formulation from Prophetic Medicine in streptozotocin-induced diabetic Balb/c mice.**
Lincoln University College, Malaysia; project completed in November 2016.
- 32) **Research Supervisor**
Project title: **Evaluation of antidiabetic activity of a novel formulation of functional foods in streptozotocin induced diabetic Balb/c mice model.**
Lincoln University College, Malaysia; project completed in November 2016.
- 33) **Research Supervisor**
Project title: **Use of complementary and alternative medicines by the Malaysians for the treatment of diabetes mellitus: a cross-sectional study.**
Lincoln University College, Malaysia; project completed in November 2016.

34) **Thesis Supervisor**

Thesis title: **Investigations of hypoglycemic and anti-inflammatory activities of Shiitake (*Lentinula edodes*), Gano (*Ganoderma lucidum*) and Oyster (*Pleurotus ostreatus*) mushrooms in Alloxan-induced and steroid- treated diabetic Long evans rats.**

Primeasia University, Bangladesh; thesis completion in June 2013.

35) **Research Supervisor**

Project title: **Prevalence and risk assessment of cardiovascular, chronic kidney disease, osteoarthritis and eye complications among type 2 diabetes outpatients in Bangladesh.**

Primeasia University, Bangladesh; project completed in June 2013.

36) **Thesis Supervisor**

Thesis title: **Studies of the impact of occupational exposure on pharmaceutical workers to the development of antimicrobial drug resistance.**

Primeasia University, Bangladesh; thesis completed in December 2012.

**BACHELOR OF PHARMACY (HONS.) RESEARCH PROJECTS SUPERVISED
(69 STUDENTS AGAINST 29 PROJECTS: ONLY SELECTED PROJECTS LISTED)**

- 1) Project title: **Investigation of Hepatoprotective Activity of Methanol Extract of *Clerodendrum wallichii* (Leaf) in Ethanol-Induced Hepatotoxicity in Swiss Albino Rats Model**
State University of Bangladesh - Completed in March 2020
- 2) Project title: **Investigation of Hepatoprotective Activity of Methanol Extract of *Typhonium trilobatum* (L.) Schott (Aerial parts) in Ethanol-Induced Hepatotoxicity in Swiss Albino Rats Model**
State University of Bangladesh - Completed in March 2020
- 3) Project title: **Investigation of Nephroprotective Activity of the Methanol Extract of *Clerodendrum wallichii* (leaf) in Carbon Tetrachloride(CCl₄)-Induced Renotoxicity in Swiss Albino Rats Model**
State University of Bangladesh - Completed in March 2020
- 4) Project title: **Investigation of Nephroprotective Activity of the Methanolic Extract of *Typhonium trilobatum* (L.) Schott (Aerial parts) in Carbon Tetrachloride(CCl₄)-Induced Renotoxicity in Swiss Albino Rats.**
State University of Bangladesh - Completed in March 2020
- 5) Project title: **Occupational safety/risk of Pharmacists in Bangladesh at the pandemic of COVID-19: A cross-sectional study.**
State University of Bangladesh - Completed in October 2020
- 6) Project title: **Knowledge, awareness, attitude, perception, practice and acceptability of Telemedicine among the people of Bangladesh during the pandemic of COVID-19.**
State University of Bangladesh - Completed in October 2020
- 7) Project title: **Evaluation of antidiabetic potential of *Costus pictus* powder on alloxan-induced diabetic rats' model.**
State University of Bangladesh - Completed in September 2019
- 8) Project title: **Evaluation of *in-vitro* and *in-vivo* Pharmacological activities of *Nigella sativa* L. seeds extract and it's fractions.**
State University of Bangladesh - Completed in March 2019.
- 9) Project title: **In-vitro and in-vivo Pharmacological evaluation of *Gynura procumbens* M. leaves extract and it's fractions.**
State University of Bangladesh - Completed in March 2019.
- 10) Project title: ***In-vitro* and *in-vivo* Pharmacological evaluation of flesh of *Momordica charantia* L. extract and it's fractions.**
State University of Bangladesh - Completed in March 2019.

- 11) Project title: ***In-vitro* and *in-vivo* Pharmacological evaluation of rhizome of *Zingiber officinale* Roscoe extract and it's fractions.**
State University of Bangladesh - Completed in March 2019
- 12) Project title: **Acute and sub-acute toxicity studies and immunostimulating activities of *Ganoderma lucidum* in SD rats.**
State University of Bangladesh - Completed in 2018.
- 13) Project title: **Acute and sub-acute toxicity studies and anti-hyperlipidemic activities of *Curcuma longa* extracts in high-fat induced rats.**
State University of Bangladesh - Completed in 2018
- 14) Project title: **Effect of *Nigella sativa*-based functional foods preparation on fasting and post-prandial plasma glucose levels in type 2 diabetic patients – A double-blind, pilot clinical study.**
State University of Bangladesh - Completed in 2018.
- 15) Project title: **Randomized double-blinded pilot clinical study of a *Gymnema*-based herbal formulation.**
State University of Bangladesh - Completed in 2018
- 16) Project title: **Randomized double-blinded pilot clinical study of a Bitter gourd-based herbal formulation on type 2 diabetic patients.**
State University of Bangladesh - Completed in 2018.
- 17) Project title: **Randomized double-blinded pilot clinical study of a Fenugreek-based herbal formulation in type 2 diabetic patients.**
State University of Bangladesh - Completed in 2018
- 18) *Project title:* **Biological and pharmacological investigation of *Hygroryza arista* (Retzins) Nees ex Wt. and Arn.**
State University of Bangladesh - Completed in 2017
- 19) *Project title:* **Investigation of biological properties of fruit peel of *Citrus lemon* L. (family: Rutaceae).**
State University of Bangladesh - Completed in 2017
- 20) *Project title:* **Concept of Pharmacy students studying in different universities at Dhaka city on Ayurvedic, Unani and Herbal Medicines.**
Daffodil International University, Bangladesh - Completed in 2011.

ONGOING RESEARCH PROJECTS (13)

- 1) Project title: **Development and Immunological, Pharmacological, Toxicological and Clinical Evaluation of a Novel Formulation of Immunobooster for the Prevention and Treatment of COVID-19**
- Self-driven Research Project, working as Project leader
- 2) Project title: ***In-vitro*, *in-vivo* and clinical studies for the immunological, pharmacological, toxicological and therapeutic assessment of a novel formulation of anti-COVID-19 herbal preparation for the prevention and treatment of currently pandemic novel coronavirus disease (COVID-19)**
- Self-driven Research Project, working as Project leader
- 3) Project title: **Effect of plant extract on alcoholic liver injury**
- Sponsored Research Project, working as Project leader
- 4) Project title: **Toxicity Studies and Pharmacological Evaluation of *Chirota* (*Swertia chirayata*) -Based Novel Herbal Preparation (CBHP) in type 2 diabetic Sprague-Dawley (SD) rats model**
- Ministry of Science and Technology, Bangladesh funded Research Project - Project leader
- 5) Project title: **Nephroprotective activities of plant extracts/fractionates/bioactive compounds in carbon tetrachloride-induced renal injury in Swiss Albino rats**
- Sponsored Research Project, working as Project leader

- 6) Project title: **Antianxiety effect of extract in rat anxiety model**
- Sponsored Research Project, working as Project leader
- 7) Project title: **Antihyperlipidaemic effect of extract (or its fractions/isolated compounds/novel formulation of functional foods/ nutraceuticals/herbal preparation) on high cholesterol diet induced hyperlipidemia in rat model**
- Sponsored Research Project, working as Project leader
- 8) Project title: **Effect of ethanol extract/fractions on the proliferation and apoptosis of human lung cancer cell line *in vitro***
- Sponsored Research Project, working as Project leader
- 9) Project title: **Effect of plant extract/fractions on the proliferation and apoptosis of human lung cancer cell line A549**
- Sponsored Research Project, working as Project leader
- 10) Project title: **Preventing and Curing Chemotherapy-Related Diarrhoea with Active Components of Traditional Chinese Medicine**
- Sponsored Research Project, working as Project leader
- 11) Project title: **Effects of plant extracts on Parkinson's disease**
- Sponsored Research Project, working as Project leader
- 12) Project title: **Antihypertensive effect of plant extract and/or its fractions in Swiss Albino rats**
- Sponsored Research Project, working as Project leader
- 13) Project title: **Occupational safety/risk of Physicians working in hospitals offering COVID-19 treatment in Bangladesh**
- M. Pharm. Research Project, working as Research Supervisor

TEACHING PHILOSOPHY AND COURSES TAUGHT

Teaching Philosophy: Focusing on the students (teacher-students interaction, students engagement, development of a good relationship by genuinely caring and listening to my students, making lessons interesting to students) to develop potential, responsible and knowledgeable Pharmacists and Scholars.

Major courses taught:

Pharmacology and Therapeutics (Endocrine Pharmacology, Immunopharmacology, Anti-infective and Chemotherapeutics), Advanced Pharmacology & Clinical Toxicology, Clinical Pharmacy and Toxicology, Pharmaceutical Immunology, Physiology, Research Methodology, Functional Foods & Nutraceuticals, Herbal medicines, Pharmacognosy and Natural Products Chemistry, Complementary and Alternative Medicines, Prophetic Medicines, Pharmaceutics, and Pharmaceutical Technology.

RESEARCH INTERESTS AND AREAS

- Diabetes prevention and treatment (Allopathic drugs, Complementary & Alternative medicines, Funct Foods)
- Immunomodulating agents (functional foods, nutraceuticals, herbal medicines as modulating agents)
- Lipid-lowering agents and fatty liver (functional foods, nutraceuticals and phytomedicines)
- Functional foods, Food supplements and nutraceuticals for prevention and treatment of chronic diseases
- Traditional, Complementary & Alternative Medicines: scientific evidences for efficacy and safety
- Antibiotic Resistance in least developed and developing countries
- Rational use of drugs (antibiotics, anticancer, antidiabetic and antihyperlipidemic)
- Cancer Immunotherapy (based on immunostimulants from functional foods, nutraceuticals, phytomedicines)
- Prophetic Medicines (novel formulations & scientific evidences for efficacy and safety in effective treatment)
- Adulteration of foods, herbal medicines, food supplements in least developed and developing countries

FUTURE RESEARCH ACTIVITIES

In future, I want to focus on the development of evidence-based effective and safe alternative medicines from functional foods, nutraceuticals, phytomedicines, herbal medicines and Prophetic medicines for the treatment of diabetes, obesity, hyperlipidemia, immunity, sexual stimulant, cancer, and well-being by using *in vitro*, *in vivo*, *ex-vivo*, Pharmacological and Toxicological experimental models, Phytochemical analysis and Clinical studies aiming to application of research to the commercialization of products for the improvement of the healthcare and Quality-Of-Life of the patients.

RESEARCH GRANTS

- [1] **Principal Investigator/Project Director**
Grant name: Ministry of Science & Technology, Bangladesh, Special Research Grant 2020-2021
Grant amount: BDT 2, 00,000 (Grant No: BS 316)
Project Title: Development of a nutraceutical-based Anti-COVID-19 immunobooster and evaluation of its immunoboosting, anti-oxidant, anti-inflammatory and anti-coagulating activities to be used for the prevention and treatment of COVID-19 infections.
- [2] **Principal Investigator/Project Director**
Grant name: Ministry of Science & Technology, Bangladesh, Special Research Grant 2019-2020
Grant amount: BDT 2, 00,000 (Grant No: BS 300)
Project Title: Toxicity Studies and Pharmacological Evaluation of Chirota (*Swertia chirayata*) -Based Novel Herbal Preparation (CBHP) in type 2 diabetic Sprague-Dawley (SD) rats model
- [3] **Principal Investigator/Project Director**
Grant name: Innoscience Research Sdn. Bhd. collaborative project 2020-2021
Grant amount: USD 4000
Project Title: Effect of Evodiamine in the prevention and treatment of 5-FU induced diarrhea in laboratory rats.
- [4] **Principal Investigator/Project Director**
Grant name: Innoscience Research Sdn. Bhd. collaborative Project 2020-2021
Grant amount: USD 2400
Project Title: Evaluation of red Dragon (*Hylocereus polyrhizus*) fruit pulp against haloperidol-induced Parkinson's disease in animal model
- [5] **Principal Investigator/Project Director**
Grant name: Innoscience Research Sdn. Bhd. collaborative Project 2019-2020
Grant amount: USD 2200
Project Title: Effect of plant extracts/bioactive compounds against chronic alcohol-induced liver injury in laboratory rat model
- [6] **Principal Investigator/Project Director**
Grant name: Innoscience Research Sdn. Bhd. collaborative project 2019-2020
Grant amount: USD 2400
Project Title: Nephroprotective activity of plant extracts/bioactive compounds in carbon tetrachloride-induced renal injury in rat model
- [7] **Principal Investigator/Project Director**
Grant name: Innoscience Research Sdn. Bhd. collaborative project 2019-2020
Grant name: USD 2200
Project Title: Antianxiety effect of *Litsea glutinosa* (Lour.) C.B. Rob. in mice anxiety model
- [8] **Principal Investigator/Project Director**
Grant name: MABL Chair for Scientific Miracles of Prophetic Medicine Research Grant:
Grant amount: USD 44,000 (Grant No: MABL 37/07) 2016
Project Title: Assessment of antitumor and immunopotentiating activity of a novel formulation from Prophetic medicine against Glioblastoma multiforme brain tumor.
Grant provider: MABL Chair for Scientific Miracles of Prophetic Medicine (MABL), Taibah University, Ministry of Higher Education, KSA

[9] **Principal Investigator**

Grant name: High Impact Research (HIR) Grant

Grant No and amount: HIR Grant (No. A-000003-50001) (RM 80,000 allocated) 2013

Project Title: Effect of exercise on the Pharmacodynamics of Sitagliptin (alone or in combination with other hypoglycemic drugs), organ functions, biochemical, humoral and cellular immunological changes in Type 2 diabetic Sprague-Dawley (SD) rats.

Grant provider: HIR Grant, University of Malaya, Ministry of Higher Education, Malaysia

[10] **Principal Investigator**

Grant name: University of Malaya Research Fund Assistance (BKP) 2014

Grant amount: Malaysian Ringgit 35,000

Project Title: Effect of exercise on the antidiabetic efficacy of Sitagliptin/Exenatide; on the functions of pancreas, kidney and liver; on biochemical and immunological changes in type 2 diabetic SD rats.

[11] **Project Supervisor**

Grant name: Post-Graduate Students' Research Support: Bangladeshi Taka 30,000

Grant amount: BDT 30,000

Master of Pharmacy student's thesis title: *Investigations of anti-diabetic activity of Shiitake, Gano and Oyster mushrooms in alloxan-induced and steroid treated diabetic Long evans rats.*

Grant provider: Primeasia University, Bangladesh

LIST OF PUBLICATIONS (88)

Only selected articles are listed here

1. Ang LP, Ng PW, Lean YL, Kotra V, Kifli N, Goh HP, Lee KS, **Sarker MMR**, Al-Worafi YM, Ming LC. Herbal Products Containing Aristolochic Acids: A Call to Revisit the Context of Safety. *Journal of Herbal Medicine* (Impact Factor: 2.221). (Available online: <https://doi.org/10.1016/j.hermed.2021.100447>).
2. **Sarker MMR***, Khan F, Mohamed IN. Therapeutic Potential of *Carica papaya* L. Leaves for the Treatment of Dengue Fever: A Review Based on Scientific Evidences. *Frontiers in Pharmacology* (Impact Factor: 4.225) – Accepted. <https://www.frontiersin.org/articles/10.3389/fphar.2021.610912/abstract>
3. **Sarker MMR***. Evaluation of Red and Green Colored Bell peppers for the Production of Polyclonal IgM and IgG Antibodies in Murine Spleen Cells. *Bangladesh Pharmaceutical Journal* 2021; 24(1): 45-53.
4. Israfil SMH, **Sarker MMR***, Rashid PT, Talukder AA, Kawsar KA, Khan F, Akhter S, La PC, Ming LC, Mohamed IN. Clinical characteristics and diagnostic challenges of COVID-19 : An update from the global perspective. *Frontiers in Public Health* 2021; 8:567395 (Impact factor: 2.483).
5. Ibrahim NI, Tadj NBMI, **Sarker MMR**, Mohamed IN. The Potential Mechanisms of the Neuroprotective Actions of Oil Palm Phenolics: Implications for Neurodegenerative Diseases. *Molecules* 2020; 25:5159 (Impact factor: 3.010).
6. Munira S, Nesa L, Islam MS, Begum Y, Rashid MA, **Sarker MMR**, Ahmed T. Antidiabetic activity of *Neolamarckia cadamba* (Roxb.) Bosser flower extract in alloxan-induced diabetic rats. *Clinical Phytoscience* 2020; 6:33 (Springer, USA).
7. Izadi E, Ming LC, Patel R, Zaid STR, **Sarker MMR**, Rao VM. Levofloxacin: Insights Into Antibiotic Resistance and Product Quality. *Frontiers in Pharmacology* 2019; 10: 881 (ISI Impact Factor: 4.225).
8. Kamarudin MNA, **Sarker MMR**, Zhou J-R, Parhar I. Metformin in colorectal cancer: Molecular mechanism, preclinical and clinical aspects. *Journal of Experimental & Clinical Cancer Research* 2019; 38:491 (ISI Impact Factor: 5.646).
9. Izadi E, Ming LC, Patel R, Zaid STR, **Sarker MMR**, Rao VM. Levofloxacin: Insights Into Antibiotic Resistance and Product Quality. *Frontiers in Pharmacology* 2019; 10: 881 (ISI Impact Factor: 4.225).
10. Khan F, **Sarker MMR***, Ming LC, Mohamed IN, Zhao C, Sheikh BY, Tsong HF, Rashid MA. Comprehensive Review on Phytochemicals, Pharmacological and Clinical Potentials of *Gymnema sylvestre*. *Frontiers in Pharmacology* 2019; 10: 1223 (ISI Impact Factor: 4.225).

11. Chen Y, Liu D, Wang D, Lai S, Zhong R, Liu Y, Yang C, Liu B, **Sarker MMR**, Zhao C. *Hypoglycemic activity and gut microbiota regulation of a novel polysaccharide from Grifola frondosa in type 2 diabetic mice*. Food and Chemical Toxicity 2019; 126: 295-302 (ISI Impact Factor: 3.977).
12. Jahan E, Kassab YW, Fen NC, Ming LC, Yen WY, Hameed MA, Hong YH, **Sarker MMR**. *Self-care and self-management among type 2 diabetes mellitus patients- A focused review*. Frontiers in Endocrinology 2018; 9:489 doi: 10.3389/fendo.2018.00489 (ISI Impact Factor: 3.3519).
13. Chen Y, Liu Y, **Sarker MMR**, Yan X, Yang C, Zhao L, Lv X, Liu B, Zhao C. *Structural characterization and antidiabetic potential of a novel heteropolysaccharide from Grifola frondosa via IRS1/PI3K-JNK signaling pathways*. Carbohydrate Polymers 2018; 198: 452-461 (ISI Impact Factor: 5.158).
14. Shajib MS, Rashid RB, Long MC, **Sarker MMR**, Islam S, Nahar L, Sarker SD, Datta BK, Rashid MA. *Polymethoxyflavones from Nicotiana plumbaginifolia (Solanaceae) exert antinociceptive and neuropharmacological effects in mice*. Frontiers in Pharmacology 2018; 9:85 (ISI Impact Factor: 4.225) (doi:10.3389/fphar.2018.00085).
15. Nesa MS, Karim SMS, Api K, **Sarker MMR**, Islam MM, Kabir A, Sarker MK, Nahar K, Asaduzzaman M, Munir MS. *Screening of Baccaurea ramiflora(Lour.) extracts for cytotoxic, analgesic, anti-inflammatory, neuropharmacological and antidiarrheal activities*. BMC Complementary & alternative medicine 2018; 18:35 (ISI Impact Factor: 2.195) (DOI 10.1186/s12906-018-2100-5).
16. Ali A, Lee KS, Bukhshb A, Al-Worafic YM, **Sarker MMR**, Ming CM, Khan TM. *Outbreak of vaccine-preventable diseases in Muslim majority countries*. Journal of Infection and Public Health 2018; 11: 153-155 (Elsevier, ScienceDirect) (ISI Impact Factor: 2.118).
17. Sheikh FICS BY, **Sarker MMR***, Kamarudin MNA and Ismail A. *Prophetic Medicine as potential functional food elements in the intervention of cancer: A review*. Biomedicine and Pharmacotherapy 2017; 95:614-648 (Elsevier, ScienceDirect) (ISI Impact Factor: 3.457).
18. Hossain G, Uddin SM, Islam A, Saw A, Lestrel PE, Banna H, **Sarker MMR**. *Factors Associated With HIV Testing Behaviors among Female Sex Workers in Rajshahi City, Bangladesh*. Journal of Life Sciences 2017; 9(2): 104-110 (Taylor & Francis, UK).
19. Sheikh BY, **Sarker MMR***, Kamarudin MNA, Mohan GMD. *Antiproliferative and apoptosis inducing effects of citral via p53 and ROS-induced mitochondrial-mediated apoptosis in human colorectal HCT116 and HT29 cell lines*. Biomedicine and Pharmacotherapy 2017; 96:834-846 (Elsevier) (Impact Factor: 3.457).
20. Jesuraj AV, **Sarker MMR***, Long CM, Praya MJ, and Kumar MR. *Enhancement of the production of L-Glutaminase, an anticancer enzyme, from Aeromonas veronii by adaptive and induced mutation techniques*. Plos One 2017 12(8):e0181745 (ISI Impact Factor: 3.057).
21. Sharma D, Patel RP, Zaidi STR, **Sarker MMR**, Lean QY, Ming LC. *Interplay of quality of ciprofloxacin and antibiotic resistance in developing countries*. Frontiers in Pharmacology 2017;8:546 (IF: 4.225).
22. Rouhi SZT, **Sarker MMR***, Rahmat A, Alkahtani SA, Othman F. *The effect of pomegranate fresh juice versus pomegranate seed powder on metabolic indices, lipid profile, inflammatory biomarkers, and the histopathology of pancreatic Islets of Langerhans in streptozotocin-nicotinamide induced type 2 diabetic Sprague-Dawley rats*. BMC Complementary & Alternative Medicine 2017; 17: 156 (Nature-Springer, IF: 2.195).
23. Kamarudin NMA, **Sarker MMR***, Kadir HA, Ming LC. *Ethnopharmacological uses, phytochemistry, biological activities and therapeutic applications of Clinacanthus nutans (Burm. f.) Lindau: A comprehensive review*. Journal of Ethnopharmacology 2017; 206: 245-266 (Elsevier) (IF: 3.115).
24. Ullah K, **Sarker MMR**, Khan MS, Mustapha MS, Ullah MK. *Anti-diabetic Activity of Compound "2-[(trimethylsilyl) oxy] - Methyl Ester (cas) Methyl-o-trim-ethyl-silylsalicylate" Isolated from Pericampylus glaucus (Lam) Merr in STZ-Induced Diabetic Rats*. Journal of Basic and Clinical Pharmacy 2017; 8(2): 68-73 (PUBMED, SCOPUS cited).

25. Kifayatullah M, Mustapha MS, **Sarker MMR**, Izharullah and Amin M. *Effect of compounds identified in active fraction of P. glaucus against blood glucose and lipid profile in streptozotocin-induced diabetic rats*. Egyptian Pharmaceutical Journal 2017; 16(1): 8-15 (Walters Kluwer-Medknow, PUBMED, SCOPUS).
26. Das SK, Mustapha MS, Sengupta P, **Sarker MMR**. *An experimental evaluation of adaptogenic potential of standardized Epipremnum aureum leaf extract*. Journal of Pharmacy and Bioallied Sciences 2017; 9(2):88-93. (Walters Kluwer-Medknow, PUBMED, SCOPUS cited).
27. Kifayatullah M, Mustapha MS, **Sarker MMR**, Kaleemullah, Amin M and Ali F. *Possible role of a compound identified from Pericampylus glaucus plant in controlling blood glucose in experimental animals*. Egyptian Pharmaceutical Journal 2017; 16(1): 37-42 (Walters Kluwer-Medknow, PUBMED, SCOPUS).
28. Kifayatullah M, **Sarker MMR***, Mustapha MS. *Phytochemical investigation of ethanolic extract of Pericampylus glaucus leaves from Malaysia by GC-MS analytical technique*. International Journal of PharmTech Research 9(12):410-416 (SCOPUS cited).
29. **Sarker MMR***, Ming LC, Sarker MZI, and Choudhuri MSK. *Immunopotentiality of Ayurvedic polyherbal formulations "Saribadi" and "Anantamul Salsa" with augmentation of IgM production and lymphocytes proliferation: A preliminary study*. Asian Pacific Journal of Tropical Biomedicine 2016; 6(7): 568-573 (Elsevier, PUBMED, SCOPUS cited).
30. **Sarker MMR***, Rashid MS, Raju AA, Rana M, Karim MFB, Howlader NMAN and Akter R. *Evaluation of the Pharmaceutical Quality of Different Brands of Ranitidine Tablets Manufactured and Marketed in Bangladesh*. Journal of Applied Pharmaceutical Science 2016; 6(1): 055-061 (SCOPUS cited).
31. Shah MA, **Sarker MMR**, Gousuddin M. *Toxicity Study of Brassica oleracea Var. Italica Extracts in Sprague Dawley (SD) Rats*. International Journal of Pharmacognosy and Phytochemical Research 2016; 8(5): 735-741 (SCOPUS cited).
32. **Sarker MMR***, Zihad MATR, Islam M, Nahar M, Islam MM, Imam H, Ghosh A, Mustapha MS, and Ismail NE. *Antihyperglycemic, insulin-sensitivity and anti-hyperlipidemic potential of Ganoderma lucidum, a dietary mushroom, on alloxan- and glucocorticoid-induced diabetic Long-Evans rats*. Functional Foods in Health and Diseases 5 (12), 450-466 (2015) (ISI Impact Factor: 1.88).
33. Kifayatullah M, Mustapha MS, Sengupta P, **Sarker MMR**, Das A and Das SK. *Evaluation of the acute and sub-acute toxicity of the ethanolic extract of Pericampylus glaucus (Lam.) in Balb/c mice*. Journal of Acute Disease 4(4), 303-308 (2015) (Elsevier, Science Direct) (SCOPUS cited).
34. Easmin MS, Sarker MZI, Sahena F, Shamsudin SH, Yunus K, Uddin MS, **Sarker MMR**, Akanda MJI, Hossain MS and Khalil MPSA. *Bioactive compounds and advanced processing technology: Phaleria macrocarpa (sheff.) Boerl, a review*. Journal of Chemical Technology & Biotechnology 90(6), 981-991 (2015) (Wiley-Black Well, PUBMED, ISI Impact Factor:3.135).
35. **Sarker MMR***, Islam KN, Huri HZ, Rahman M, Imam H, Hosen MB, Mohammad N and Sarker MZI. *Studies of the impact of occupational exposure on pharmaceutical workers to the development of antimicrobial drug resistance*. Journal of Occupational Health **56** (4), 260-270 (2014) (PUBMED, ISI Impact Factor: 1.285).
36. **Sarker MMR*** and Zhong M. *Keyhole Limpet Hemocyanin augmented the killing activity, cytokine production and proliferation of NK cells, and inhibited the proliferation of Meth A carcinoma cells in vitro*. Indian Journal of Pharmacology **46**(1), 28-33 (2014) (PUBMED, ISI Impact Factor: 0.902).
37. Kazemipoor M, Cordell GA, **Sarker MMR**, Jasimah CW, Hajifaraji M and Kiat PE. *Alternative Treatments for Weight Loss: Safety/Risks and Effectiveness of Anti-obesity Medicinal Plants*. International Journal of Food Properties 18(9), 1942-1963 (2014) (PUBMED, ISI Impact Factor: 1.845).
38. **Sarker MMR***, Imam H, Ahmed S and Choudhuri MSK. *In vitro assessment of Prasarani Sandhan, a traditional polyherbal Ayurvedic medicine, for immunostimulating activity splenic cells of BALB/c mice*. International Journal of Pharmacy and Pharmaceutical Sciences **6** (9), 13-15 (2014) (SCOPUS cited).

39. **Sarker MMR***. *Selection of proper antidiabetic drugs for diabetic patients with cardiovascular diseases: Why so important?* *Pharmaceutical Sciences* **20** (2), 1-2 (2014) (SCOPUS cited).
40. Imam H, Chowdhury A, Mahbub NU, Hossain A, Karim MFB, Uddin MB and **Sarker MMR**. *Oxidizability assay of unfractionated plasma of patients' with different plasma profile: a methodological study*. *Journal of Diabetes & Metabolic Disorders* **13**:54 (2014) (BioMedCentral, PUBMED, SCOPUS cited) (IF: 2.03).
41. **Sarker MMR***. *Adulteration of herbal medicines and dietary supplements with undeclared synthetic drugs: dangerous for human health*. *International Journal of Pharmacy and Pharmaceutical Sciences* **6**(4), 1-2 (2014) (SCOPUS cited).
42. **Sarker MMR*** and Gohda E. *Promotion of anti-keyhole limpet hemocyanin IgM and IgG antibody productions in vitro by red bell pepper extract*. *Journal of Functional Foods* **5**(4), 1918-1926 (2013) (Elsevier, Science Direct, PUBMED) (ISI Impact Factor: 3.470).
43. Imam H, Mahbub NU, Khan MF, Hana HK and **Sarker MMR**. *Alpha Amylase Enzyme Inhibitory and Anti-inflammatory Effect of Lawsonia inermis*. *Pakistan Journal of Biological Sciences* **16** (23), 1796-1800 (2013) (SCOPUS cited).
44. **Sarker MMR***, Nahar S, Shahriar M, Seraj S and Choudhuri MSK. *Preliminary study of the immunostimulating activity of an ayurvedic preparation, Kanakasava, on the splenic cells of BALB/c mice in vitro*. *Pharmaceutical Biology* **50**(11), 1467-1472 (2012) (Taylor & Francis, PUBMED, IF: 1.918).
45. Goto T, **Sarker MMR**, Zhong M, Tanaka S and Gohda E. *Enhancement of IgM Production in B Cells by the Extract of Red Bell Pepper*. *Journal of Health Science* **56**(3), 304-309 (2010) (ISI Impact Factor: 0.81).

Book

46. **Sarker MMR***, Soma MA. *Updates on Clinical Study Reports of Phytotherapy in the Management of Type 2 Diabetes Mellitus*. In: Eddouks M, Editor. *Phytotherapy in the Management of Diabetes and Hypertension*. Vol. 4. Sharjah, UAE: Bentham Science Publishers; 2020. p. 1-60.

CONFERENCE ABSTRACTS: 20

Only 10 selected Abstracts are listed here

1. **Sarker MMR***, Jumana Ahsan, Sadia Afrin Merry, Selina Akhter. *Potential antidiabetic activities of a novel formulation of functional foods (Dia-Best): Evidences from diabetic animal model and clinical studies with type 2 diabetes mellitus patients*. 4th International Symposium on Phytochemicals in Medicine and Food organized by Phytochemical Society of Asia and International Association of Dietetic Nutrition and Safety held Xi'an, China on November 30-December 5, 2020.
2. **Sarker MMR***, Tandra TH, Akhter S, Muse JS. *Antidiabetic potential of a novel formulation of functional foods in patients with type 2 diabetes mellitus: a single centre, single blind, prospective interventional study*. The 4th International Conference on Advances in Medical Science 2019 organized by The National University of Malaysia (Universiti Kebangsaan Malaysia) held at Sarawak, Malaysia on 12-14 April 2019.
3. **Sarker MMR***. *Functional food and nutraceuticals, as complementary and alternative medicine, for the prevention and treatment of chronic diseases*. 18th International Congress of International Society of Ethnopharmacology 2018 and 5th International Congress of Society for Ethnopharmacology, India, organized by Department of Pharmacy, Faculty of Pharmacy, University of Dhaka, Bangladesh, held on 13-15 January 2018.
4. **Sarker MMR***, Tabassum T, Nesa ML, Zia MRB, and Akhter S. *Prevalence and risk factors of gestational diabetes mellitus*. 8th Regional Public Health Conference 2017 organized by Bangladesh University of Health Sciences held on 29-30 December 2017.
5. **Sarker MMR***, Zihad MATR, Islam M, Shah MA, Kifayatullah M, Das SK, Nahar M, Ghosh A, and Ismail NE. *Shiitake mushroom: potential glycemic control activity on alloxan- and glucocorticoid-induced diabetic Long-Evans rats*. *Malaysian Journal of Pharmacy* **2** (1): 82 (2015).

6. **Sarker MMR***, Ghosh A, Zihad M.A.T.R., Islam M, Islam MM, Nahar M, Mustapha MS, and Ismail NE. *Antihyperglycemic activity of dietary mushrooms (Reishi, Shiitake and Oyster) on alloxan- and glucocorticoid-induced diabetic Long-Evans rats*. In: Martirosyan D, Welty F, Zhou J-R (Eds.); *Functional and Medical Foods for Chronic Diseases: Bioactive Compounds and Biomarkers*. Proceedings of 15th Intl. Conference on Functional Foods and Bioactive Compounds held at Harvard Medical School, USA (15-16 September 2015).
7. **Sarker MMR***, Choudhuri MSK, Jesuraj SAV, Rajamanickam G, Mustapha MS, Nataranjan SB, and Ismail NE. *Augmentation of humoral immunity by an Ayurvedic herbal preparation, Anantamul Salsa in vitro*. *Malaysian Journal of Pharmacy* 2 (1): 177 (2015).
8. **Sarker MMR***, Sarker MZI, and Choudhuri MSK. *Promotion of Humoral Immunity by an Ayurvedic Herbal Preparation, Saribadyarista*. Abstract published in 1st International Conference on Industrial Pharmacy (ICIP), organized by International Islamic University Malaysia held at Kuantan, Pahang, Malaysia (16-17 August 2014).
9. **Sarker MMR***. *Enhancement of humoral immunity by Ayurvedic herbal preparations*. *Journal of Clinical and Cellular Immunology* 4:5 (2013). Abstract published in the 2nd International Conference on Clinical & Cellular Immunology organized by OMICS Group Conferences held at Hampton Inn Tropicana, Las Vegas, USA (15-17 October 2013).
10. **Sarker MMR*** and Choudhuri MSK. *Immunostimulating activity of Ayurvedic preparations Saribadi, Anantamool Salsa, Mrittunjoy and Saribadyarista in vitro*. International conference on Updates on Natural Products in Medicine and Healthcare Systems jointly organized by Biotechnology and Genetic Engineering Discipline, Khulna University, and University of Wolverhampton, UK, held at Khulna, Bangladesh (July 6, 2013).
11. Goto T, **Sarker MMR***, Tsuji T, Zhong M, Tanaka S, and Gohda E. *Differentiation of B cells to plasma cells enhances by the extract of Capsicum annuum (L.) in vitro*. The 130th International scientific conference organized by Pharmaceutical Society of Japan, held at Okayama University, Japan (28 March 2010).

PATENTS

Registered 3 patents for the development of novel anticancer, antidiabetic, and immunoboosting molecules/formulations of functional foods, nutraceuticals and herbal medicines.

CONFERENCES AND SCIENTIFIC SEMINARS ATTENDED (19)

Only selected are listed here

1. **Invited speaker:** *Potential antidiabetic activities of a novel formulation of functional foods (Dia-Best): Evidences from diabetic animal model and clinical studies with type 2 diabetes mellitus patients*. 4th International Symposium on Phytochemicals in Medicine and Food organized by Phytochemical Society of Asia, International Association of Dietetic Nutrition and Safety held on Nov 30 – Dec 5, 2020, Xi'an, China.
2. **Oral presentation.** *Antidiabetic potential of a novel formulation of functional foods (Diab-Foods) in patients with type 2 diabetes mellitus-A single blind, prospective interventional study*. 4th International Conference on Advances in Medical Sciences held at Sarawak, Malaysia, jointly organized by the bone metabolism, cardiovascular system and stress enzyme group of Universiti Kebangsaan Malaysia, held on 12-14 April 2019.
3. **Oral presentation.** *Functional food and nutraceuticals, as complementary and alternative medicine, for the prevention and treatment of chronic diseases*. 18th International Congress of International Society of Ethnopharmacology 2018 and 5th International Congress of Society for Ethnopharmacology, organized by Department of Pharmacy, Faculty of Pharmacy, University of Dhaka, held on 13-15 January 2018.

4. **Oral presentation:** awarded as **the Best Speaker** in ISE SFEC National Conference 2017 on Drug Discovery and Development from Natural Sources, held at University of Dhaka on 21 May 2017 organized by Department of Pharmacy, Faculty of Pharmacy, University of Dhaka, Bangladesh in association with University Grants Commission of Bangladesh's Higher Education Quality Enhancement Program (HEQEP) Sub-Project.
5. **Oral presentation:** *Antihyperglycemic activity of dietary mushrooms (Reishi, Shiitake and Oyster) on alloxan- and glucocorticoid-induced diabetic Long-Evans rats.* The 18th International Conference entitled "Functional and Medical Foods for Chronic Diseases: Biactive Compounds and Biomarkers", held at Harvard Medical School, Boston, Massachusetts, USA on September 15-16, 2015.
6. **Oral presentation:** *Shiitake mushroom: potential glycemic control activity on alloxan- and glucocorticoid-induced diabetic Long-Evans rats.* The 12th Pharmacy Scientific Conference 2015 organized by Malaysian Pharmaceutical Society held on 13-15 November, 2015.
7. **Poster presentation: Best Poster Presenter:** *Promotion of Humoral Immunity by an Ayurvedic Herbal Preparation, Saribadyarista.* The 1st International Conference on Industrial Pharmacy (ICIP), organized by International Islamic University Malaysia held on 16-17 August 2014 at Kuantan, Pahang, Malaysia.
8. **Chaired** in a scientific seminar on *Drug discovery from Natural Products*, organized by Lincoln University College Malaysia on 17 December 2014.
9. **7th National Conference for Clinical Research (NCCR 2013):** Participated in a 3-days conference held at Seri Pacific Hotel, Kuala Lumpur, on 3-5 September 2013 organized by Ministry of Health, Malaysia.
10. **Oral presentation:** *Immunostimulating activity of Ayurvedic preparations Saribadi, Anantamool Salsa, Mrittunjoy and Saribadyarista in vitro.* The International conference on *Updates on Natural Products in Medicine and Healthcare Systems* jointly organized by Biotechnology and Genetic Engineering Discipline, Khulna University, and University of Wolverhampton, UK, funded by British Council, Dhaka, held on July 6, 2013.
11. **Invited speaker:** *Breast cancer awareness and screening program-* A seminar jointly organized by the Department of Pharmacy, Daffodil International University, and National Cancer Research Institute and Hospital, Dhaka, Bangladesh on 14 February 2012.

WORKSHOPS CONDUCTED AS INVITED SPEAKER

1. Conducted a whole-day long workshop on "**Ethical aspects, Pharmacological and Toxicological Studies using animal models**" as **distinguished speaker** organized by KPJ Healthcare University College, Malaysia on 27 March 2018.
2. Conducted a whole-day long pre-conference workshop entitled "**Efficacy and Safety of Drugs/Extracts/Herbal Preparations Using Animal Model: Study Design, Protocol and Techniques**" as an Invited speaker organized by the National University of Malaysia (Universiti Kebangsaan Malaysia) held at Kuching, Sarawak on 12 April 2019.
3. Conducted a two-days-long workshop entitled "**Nutraceuticals and Herbal Drugs Discovery and Formulation: Research Design, Development and Commercialization**" as Invited speaker jointly organized by QUEST International University, Malaysia; Malaysian Society of Pharmaceutical Technology, University Sains Malaysia; and Interscience Sdn. Bhd, Malaysia held on 15-16 April 2019.

TRAINING RECEIVED AND PARTICIPATED IN THE WORKSHOPS

Received training and participated in many workshops, only few are listed here

1. **Quality Assurance Project Completion Report:** Participated a workshop entitled “Project Completion Report” organized by Quality Assurance Unit, University Grants Commission, Bangladesh (2nd July 2018).
2. **Faculty Development Workshop:** Participated two-days-long Faculty Development Workshop entitled “Mentoring Students for Quality Standards” held at State University of Bangladesh (29th-30th July 2017).
3. **Objective Based Education (OBE) workshop:** participated 2-days long workshop on OBE held at Lincoln University Malaysia organized by Ministry of Higher Education Malaysia (21-22 March 2016).
4. **End Note X7** workshop: Julius Centre, University Malaya (31 May 2014).
5. **Workshop on Developing a Protocol for Cochrane Systematic Review:** Julius Centre, University of Malaya (3-6 March 2014).
6. **Introduction to Systematic Review** workshop: Julius Centre, University of Malaya (3 March 2014).
7. **Responsible Care and Use of Laboratory Animals training course:** Animal Experimental Unit, Faculty of Medicine, University of Malaya (21-22 January 2014).
8. **Animal Experiment Unit Facility Induction Course:** Animal Experimental Unit, Faculty of Medicine, University of Malaya (16 January 2014).
9. **Basic SPSS** workshop: Faculty of Medicine, University of Malaya (11 September 2013).
10. **Good Clinical Practice (GCP)** workshop: Clinical Investigation Centre, University of Malaya, endorsed by Ministry of Health Malaysia (10-12 Dec 2013).
11. **Good Manufacturing Practice (GMP):** Quality Institute of America, Dhaka, Bangladesh.

MEMBERSHIP IN OR AFFILIATIONS WITH PROFESSIONAL SOCIETIES

- [1] Member, *Bangladesh Pharmaceutical Society* (BPS) (2001 - till date)
- [2] Member, *Bangladesh Pharmacy Graduates' Association* (BPGA) (1998 - till date)
- [3] Member, *Malaysian Pharmaceutical Society* (MPS) (August 2015 – till date)
- [4] Member, *Pharmaceutical Society of Japan* (2009 - 2010)
- [5] Member, *American Pharmacists Association, USA* (since 2015 – till date)
- [6] Member, *American Society of Microbiology* (ASM), USA (since 2012-till date)
- [7] Member, *Academic Society of Functional Foods & Bioactive Compounds, USA* (2015-till date)
- [8] Member, *Saudi Association of Neurological Surgery, Saudi Arabia* (February 2019 - till date)
- [9] Academic Member, *Athens Institute for Education and Research, Greece* (2015 - till date)

EDITORIAL BOARD IN INTERNATIONAL JOURNALS

- [1] Editor-in-Chief, *Journal of Pharmacology and Toxicology* (Academic Journals Inc. USA) since 2019.
- [2] Editorial Board, *Frontiers in Bioscience-Landmark* (Clarivate Analytics/Web of Science, Scopus, PubMed/Medline indexed) since 2020 (IF: 2.747).
- [3] Review Editor, *Frontiers in Pharmacology* (Clarivate Analytics/Web of Science, Scopus, PubMed/Medline indexed) since 2021 (Impact Factor: 4.225)
- [4] Editorial Board, *Pharmaceutical Sciences* (Clarivate Analytics/Web of Science, Scopus, PubMed/Medline indexed) since 2014.
- [5] Editorial Board, *Pakistan Journal of Biological Sciences* (Scopus, PubMed/Medline indexed) since 2019.

PROF. MD. MOKLESUR RAHMAN SARKER, PhD

- [6] Editorial Board, *International Journal of Pharmacology* (Clarivate Analytics/Web of Science, Scopus, indexed) since 2019 (IF: 0.692).
- [7] Editorial Board, *Medicine & Health* (Clarivate Analytics/Web of Science indexed) since 2021.
- [8] Editorial Board, *International Journal of Pharmacy and Pharmaceutical Sciences* (Scopus) since 2014.

REVIEWER IN INTERNATIONAL JOURNALS (25)

Reviewer of 25 International journals, selected journals are listed here

- [1] Reviewer, BMC Complementary Medicine and Therapies since 2014 (IF: 2.288; Springer-Nature).
- [2] Reviewer, Journal of Translational Medicine since 2017 (Impact Factor: 3.786).
- [3] Reviewer, Drug Design, Development and Therapy since 2015 (IF 2.822; Dove Press).
- [4] Reviewer, Cancer Management and Research since 2015 (IF: 3.851; Dove Press).
- [5] Reviewer, International Journal of Occupational and Environmental Health since 2015 (IF: 2.068).
- [6] Reviewer, Journal of Occupational Health since 2015 (Impact Factor: 1.848).
- [7] Reviewer, Journal of Dietary Supplements (Taylor & Francis) since 2018.
- [8] Reviewer, Journal of Functional Foods (Elsevier, Impact Factor: 3.701)
- [9] Reviewer, Journal of Herbal Medicine (Elsevier, Impact Factor: 2.221)
- [10] Reviewer, Biomedicine and Pharmacotherapy since 2018 (Elsevier, Impact Factor: 4.545)
- [11] Reviewer, Evidence Based Complementary and Alternative Medicine (Impact Factor: 2.064)
- [12] Reviewer, Food Research International (Impact Factor: 4.972)

SCHOLARSHIPS/AWARDS

- [1] Awarded as *the Best Speaker (Oral Presenter)* in ISE SFEC National Conference 2017 on Drug Discovery and Development from Natural Sources, held at University of Dhaka on 21 May 2017 organized by Faculty of Pharmacy, University of Dhaka, Bangladesh in association with UGC of Bangladesh's Higher Education Quality Enhancement Program (HEQEP) Sub-Project.
- [2] Awarded as *the Best Poster Presenter* in 1st International Conference on Industrial Pharmacy (ICIP) 2014, held at Kuantan, Pahang, Malaysia on 16-17 August 2014 organized by Faculty of Pharmacy, International Islamic University Malaysia.
- [3] Awarded with *Japan Students Services Organization (JASSO) scholarship*: Ministry of Education, Japan for 01 year (April 2007- March 2008): 70,000 Japanese yen (JPY)/month.
- [4] *Scholarship and award from Otsuka Toshimi Scholarship Foundation*, Japan for 2 years (April 2008-March 2010): 1,500,000 JPY/year.
- [5] *Jahangirnagar University Merit Scholarship* during undergraduate study for 2 years (November 1993-October 1994 and January 1995-December 1995), Bangladesh.

LANGUAGE PROFICIENCY

- **Bengali:** Native Language.
- **English:** Full professional efficiency in reading, writing, speaking and listening.
- **Japanese:** Excellent in speaking and listening, poor in reading and writing.

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Research Gate profile: http://www.researchgate.net/profile/Dr_Md_Moklesur_Rahman_Sarker

LinkedIn profile: <https://www.linkedin.com/pub/dr-md-moklesur-rahman-sarker/57/5a3/566>

Scopus Author ID: 36105338100

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Academia Profile: <https://sub.academia.edu/ProfDrMdMoklesurRahmanSarker>

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