



## Dr. Mohammad Amzad Hossain

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موقع المكتب: 33-17 ....

يعمل في الجامعة: منذ 2011

الحالة الاجتماعية: Married...

Teaching Philosophy: As a pharmaceutical chemistry teacher, my teaching encompasses didactic lectures, lab sessions, presentation as well as group discussions. I spend a great deal of time with my students discussing derivations, designing experiments, and analyzing data. I also use this approach while training the undergraduate and graduate students in medicinal chemistry laboratory. I believe that providing scientific basis regarding the chemistry of plants, its uses, handling analytical tools like spectroscopy and chromatography will equip my students to learn and research in the field of chemistry. I enjoyed helping students to achieve their course learning outcomes through these experiences. My teaching philosophy is grounded on the principle that students can promote their own thoughts, resolve problems with evidence based approach when outcome based learning process is employed. My ultimate goal is to ensure my students apply the skills acquired in my course to solve the never ending puzzles of chemistry.

### المؤهلات الأكاديمية

.B. Sc (Honors, Chemistry), M. Sc (Chemistry), Rajshahi University, Bangladesh, 1981-1986

.Ph. D (Medicinal Chemistry and Organic Synthesis), Rajshahi University, Bangladesh, 1994

.Post-Doctoral (Medicinal Chemistry), University Science Malaysia, Malaysia, 2002-2004

### أنشطة التدريس

Phytochemistry and Complementary Medicine (Course Code : PHCY460) , Phytochemistry is [1] the chemistry of plant constituents or chemicals produced by the plants. In this course, students will be provided with general knowledge on extraction, isolation, purification, identification and

characterisation of different drugs. Further, students will study chromatography and instrumental techniques which are in currently use for the separation, determination and quantification of drugs. In addition, the course covers the study of various compounds, including volatile oils, cardiac glycosides, terpenoids, saponins, and alkaloids. Besides, the students will gain knowledge of the different complementary and alternative medicines, their concepts, principles, applications, advantages, and disadvantages

The phytochemistry lab is equipped with the essential instruments such as high vacuumed rotary evaporators, vacuum controllers, classical chromatography, extraction devices, incubator, UV spectroscopy, freezer (-20oC), microbalance, water bath shaker and plant grinding units. Phytochemistry lab has expertise for screening the novel bioactive compounds with medicinal value from indigenous medicinal plants. Qualitative & quantitative phytochemical screening of Omani medicinal plants for their novel bioactive compounds containing medicinal value and pharmacological properties

#### (Advanced Instrumental Analysis (PHCY451 [2])

This course covers details about the theory and application of the modern analytical tools used for the identification, quantification and structural elucidation of simple molecules and fosters practical knowledge that can be directly applied to the pharmaceutical drug analysis. Further, the course highlights important techniques for bio-molecular structure determination using different spectroscopic and chromatographic methods such as UV-visible, IR, NMR, GC-MS, HPLC etc. Vital qualitative and quantitative concepts in the context of drug discovery will be detailed

#### (Graduation Project (PHCY382 [3])

Phytochemistry and Marine Natural Products (PHCY305). Phytochemistry is the chemistry of plant and marine constituents or chemicals produced by the plants and marine organisms. In this course, students will be provided with general knowledge on extraction, isolation, purification and determination of drugs. Further, students will study chromatography and instrumental techniques which are in current use. In addition, the course covers the study of various compounds including volatile oils, cardiac glycosides, saponins, terpenoids and alkaloids. Besides, the students will gain knowledge of the detailed introduction to marine natural products, their concepts, applications, advantages, and disadvantages. This course aims to provide the students with knowledge of phytochemical methods used for qualitative and quantitative analysis of crude drugs, study the plants that contain volatile oils, alkaloids, cardiac glycosides, terpenoids and saponins and study of marine natural products

Phytochemistry and Marine Natural Products (PHCY305L). In this course, students will be provided with general knowledge on extraction, isolation, purification and determination of drugs. Further, students will study chromatography and instrumental techniques which are in current use. In addition, the course covers the study of various compounds including volatile oils, cardiac glycosides, terpenoids and saponins and the study of alkaloids. Besides, the students will gain knowledge of the different marine natural products, their concepts, applications, advantages, and disadvantages. Labs will be based on the theoretical part of the syllabus. Experiments are designed on extraction, isolation, separation, quantification of chemical compounds. Different chromatographic experiments are designed like TLC and column. Chemical test of glycosides, steroids, tannins and alkaloids

Fundamentals of Chemistry (CHEM107). This course intends to provide students with the basic principles of chemistry and shows them how chemists understand matter. Major topics include introduction to stoichiometry, SI units, chemical calculations (stoichiometry), gases, thermochemistry, atomic structure and periodicity through periodic table, chemical bonding orbitals, liquids and solids. Laboratory experiments support the above concepts. It is designed to teach student's problem-solving skills

Research Interest: My research interests include the development of new chemical entities under the new drug discovery program in various therapeutic areas. Currently my research interests involve on the isolation and characterization of bioactive compounds from the Omani medicinal plants for their pharmacological actions

Isolation and characterization of bioactive compounds from indigenous medicinal plants, .1 microbes and marine animals. 2. Application of modern NMR techniques to structural elucidation of organic molecules, with special emphasis to marine peptides. 3. Application of GC-MS and HPLC methods to identify and quantify of different organic toxic in foodstuff samples 4. Synthesis of chemically unique and biologically interesting compounds and evaluation of their pharmacological activities

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#### العرض في المؤتمرات -

Outcome Based Learning (OBE), Outcome Based Learning (OBE), Registrar Department, University Malaysia Sabah. Malaysia, 04/11/2010

Sealed sources and radiotracer applications in FCCU and industrial process Gamma tomography, IAEA/RCA Regional training course on sealed sources and radiotracer applications in FCCU and industrial process Gamma tomography, Bhabha Atomic Research Centre, BARC, Mumbai, India. , 8-19/05/2006

MPS Pharmacy Scientific Conference 2003, MPS Pharmacy Scientific Conference 2003, Malaysian Pharmaceutical Society, Malaysia. , 10-12/10/2003

MPS Pharmacy Scientific Conference 2002, MPS Pharmacy Scientific Conference 2002, Malaysian Pharmaceutical Society, Malaysia. , 31-2/11/2002

Process diagnostics using radioisotope techniques in petroleum/chemical industry, Regional (RCA) workshop process diagnostics using radioisotope techniques in petroleum/chemical industry, Bhabha Atomic Research Centre, BARC, Mumbai, India. , 03/12/2001

Radiotracers for efficiency testing of waste water treatment plants., IAEA Regional workshop on radiotracers for efficiency testing of waste water treatment plants., Korea Atomic Energy Research Institute, Taejon, Korea., 18-29/09/2000

Application of tracer technology in industry for SAARC countries, Workshop on Application of tracer technology in industry for SAARC countries, Dhaka, Bangladesh, 28-2/11/1999

General Industrial Applications, Tracer Technology in Industry, Warsaw, Poland. 8-19 May 1999., 8-19/05/1999

#### المنشورات -

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- Najwa Nasser AL-Jabri \*, Mohammad Amzad Hossain, Chemical composition and antimicrobial .37  
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#### الخبرة الإدارية

- (Convener, , College of Pharmacy and Nursing Research Committee (CPN: الآن: 2022
- Chair, Pharmacy Professional Examination, School of Pharmacy - Nizwa University : الآن: 2021
- College Publication Officer - Nizwa University : الآن: 2021
- Member, Graduation Project Committee - University of Nizwa : الآن: 2020
- Convener, Assessment Committee - University of Nizwa : الآن: 2019
- College Promotion Committee, College of Pharmacy and Nursing - Nizwa University :2016 - 2015
- Lab safely and innovation committee member - School of Pharmacy :2015 - 2014
- Curriculum Committee member for courses development - School of Pharmacy :2014 - 2013

#### خدمة المجتمع

- As a Chairperson, I organized a "Treasure Hunt Activity" as a part of the Healthy Lifestyle :2018  
Program, University level
- As a Chairperson, I organized a "Treasure Hunt Activity" as a part of the Healthy Lifestyle :2017  
Program, University level
- As a Chairperson, I organized a "Treasure Hunt Activity" as a part of the Healthy Lifestyle :2016



As a Chairperson, I organized a "Treasure Hunt Activity" as a part of the Healthy Lifestyle :2015  
Program, University Level

### العضوية في الهيئات المهنية

Editorial Board Member : Presently I am working as a Regional Editor/Editorial member :الآن-2022  
:of the following mentioned peer review high quality Scientific Journals

Journal of Chemical Biology and Pharmaceutical Chemistry , Board Member :الآن-2021

Medicinal and Analytical Chemistry International Journal, Editorial Board Member :الآن-2020

International Journal of Pharmacognosy and Chinese Medicine, Editorial Board Member :الآن-2020

Asian Chemical Society (ACS), Life member :الآن-2018

Chronicles of Pharmaceutical Science, Editorial Board Member :الآن-2018

Jacobs Journal of Nursing and Care - Editorial Member :الآن-2017

Advances in Pharmacognosy and Phytomedicine - Editorial Team :الآن-2017

Annals of Chromatography and Separation Techniques - Editorial Team :الآن-2017

EC Chemistry- Editorial Member :الآن-2017

Austin Journal of Bioorganic & Organic Chemistry - Editorial Board :الآن-2017

Journal of Pharmaceutical Technology & Drug Research - Editorial Board :الآن-2017

Journal HOAJ Biology - Editorial Member :الآن-2017

URJSD Journal- Advisory board :الآن-2017

Unique Journals of Communication - International Editorial Board Member :الآن-2017

Journal of Pharmaceutical Care & Health Systems, Editorial Board Member :الآن-2015

Bangladesh Chemical Society (BCS), Life member :الآن-1995

Bangladesh Atomic Scientist Association, Life member :الآن-1995

### الجوائز والتقدير

World top 2% Scientist Recognition 2022

World top 2% Scientist Recognition 2021

The Royal Society Fellowship, University of Oxford 2004

2020 World top 2% Scientist Recognition and Chancellor Recognition

