

## Sitesh Chandra Bachar, Ph. D

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### Professor and Dean

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### Summary CV of Dr. Sitesh C Bachar

Dr. Bachar was born on 16 February 1962 in village Hatiardanga, P.S. Koyra, District Khulna. He received B. Pharm (Hons.) and M. Pharm from the University of Dhaka, in 1983 (held in 1986) and 1984 (held in 1988), respectively. He completed his Ph.D. in Pharmacy from the Jadavpur University, Kolkata, West Bengal, India, in 1996. He was a post-doctoral fellow during April 2004-April 2006 under the Ministry of Health, Kingdom of Saudi Arabia, through the Department of Pharmacy, King Faisal University in safe drug use management.

He joined the Department of Pharmacy, Faculty of Pharmacy as a Lecturer in 1997. Then he was a Professor of the Department of Pharmaceutical Technology, at the University of Dhaka from 31 March 2007 to 28 May 2014. From 29 May 2014 to date, he is a professor of the Department of Pharmacy and serving as its Chairman from 29 May 2014 to 28 May 2017 and 19 September 2017 to 18 September 2020 for a second term. He is also serving as a Chairman, Courses Committee, Govt Unani and Ayurvedic Medical College, Mirpur under the Faculty of Pharmacy, University of Dhaka.

Dr. Bachar is a well-recognized medicinal chemist with particular expertise in synthesizing indan-based anti-inflammatory, analgesic, plant growth regulatory compounds, and structure-activity studies. He is an outstanding medicinal chemist with a pharmacy educational background. He also possesses unique expertise in isolation, purification, and pharmacological evaluation of Bangladeshi traditional and herbal medicines and their quality. Professor Bachar has been successful in securing several research grants to support his research. He is an innovative researcher as well as an accomplished teacher in the higher education sector. He has a keen and objective-driven approach to whatever he does. As an academican and experienced in hospital and clinical pharmacy practice and management Dr. Bachar has established the clinical and hospital pharmacy practices in Bangladesh, actively participated in the implementation of the pharmacovigilance (adverse drug reaction monitoring) activities in the country, and engaged in the reduction of antimicrobial resistance (AMR) in the community due to inappropriate use as a member of a national technical committee.

Dr. Bachar served as National Consultant in various development program under the Ministry of Health and Family Welfare (MOHFW), GOB on ensuring quality, productive and safe pharmaceutical products for

improved health of the people of Bangladesh with various development partners such as the Department for International Development (DFID), Management Sciences for Health (MSH), USAID Management Technologies and Pharmaceutical Services (MTaPS), Better Health Bangladesh, Pathfinder International (NHSDP), World Health Organization (WHO), World Bank, etc.

He participated as a pharmaceutical expert in the inspection of pharmaceutical industries to ensure good manufacturing practice (GMP) and quality of medicines in the country as a parliamentary body member under the Ministry of Health and Family Welfare, GOB paracetamol tragedy during 2009 to 2014. He contributed to preparing test criteria for Unani and Ayurvedic medicines for setting it in the industry to ensure the quality of traditional medicines in the country. He was an executive editor and assistant editor of the fifth (2019) and fourth edition (2015) of Bangladesh National Formulary (BDNF), respectively.

At present actively contributing to the Emergency Use Authorization of medicines, vaccines, and related medical devices during the pandemic situation as a member.

Experience in more than 36 years in research and education, Dr. Bachar has the opportunity to publish several publications in high-impact international journals in the area of clinical, medicinal, and natural products chemistry. He has guided more than seventy undergraduate and graduate students whose research works have been published in international reputed journals. His total number of publications is more than 130, and he also contributed to ten book chapters. Over the years, Prof Bachar has shown his ability to sustain high-quality research activities, excellent academic profile, and many collaborative skills. His teamwork and motivating ability are evident from his research, engaging several collaborators from various research groups from home and abroad. He also has journal editorial advisory memberships, grant reviewing, and journal article reviewing expertise of various high-impact international journals. Dr. Bachar is a member of various professional and volunteer organizations.

Dr. Bachar has supervised the bachelor's project works of over forty students, Masters thesis of over 30 students, three M.Phil and two Ph.D. students successfully, and served as an external examiner of several Ph.D. theses of Jadavpur University, Kolkata, and other five Indian and foreign universities, including Bangladeshi public universities.

Dr. Bachar was the Organizing Secretary of the first-ever International Conference on Ethnopharmacology and Ethnomedicines (ISE-SFEC 2018) held in Bangladesh on January 13-15, 2018, in association with the International Society for Ethnopharmacology and Society for Ethnopharmacology India. He was also conference chair of many international conferences held at home and abroad for the last 20 years.

Dr. Bachar is actively involved in clinical research for the development of an mRNA vaccine candidate in Bangladesh developed by Globe Biotech Ltd, Bangladesh, and also conducting bioequivalence study of Bangladeshi generic products in the home and abroad.

Coordinating in export diversification and competitiveness development project (EIF-Tier-II) component on active pharmaceutical ingredient (API) industries in Bangladesh organized by WTO Cell, Ministry of Commerce, Government of the People's Republic of Bangladesh supported by WHO, Geneva.

Recently engaged in developing a target molecule against various serotypes (DEN-1, DEN-2, DEN-3 and DEN4) of dengue virus for the purpose of treatment and prevention using nanotechnology.

At present, Dr. Bachar is serving as an elected dean of the Faculty of Pharmacy, University of Dhaka, Bangladesh.

## CONTRIBUTIONS IN THE PROFESSIONAL FEILD

1. Inspection of pharmaceutical industries to ensure GMP and quality medicines in the country as a member of the parliamentary body under the Ministry of Health and Family Welfare, Govt. of the Peoples' Republic of Bangladesh after paracetamol tragedy.
2. Prepare test criteria for Unani and Ayurvedic Medicine manufacturers for setting it in the industry to ensure quality of traditional medicines as a member of the team on request of Director General of Drug Administration (DGDA).
3. Prepare Bangladesh National Formulary (BDNF) fourth and fifth edition as an Editorial Board Member for drug safety management under the Director General of Drug Administration (DGDA), Ministry of Health and Family Welfare, Govt. of the Peoples' Republic of Bangladesh supported by SAIPS.
4. Actively working as a Member of the Task Force Committee for reducing Antimicrobial Resistance in Bangladesh with different stakeholders under Director General of Drug Administration (DGDA), Ministry of Health and Family Welfare, Govt. of the Peoples' Republic of Bangladesh in cooperation with WHO.
5. Implementing Pharmacovigilance activities in Bangladesh under the Director General of Drug Administration (DGDA), Ministry of Health and Family Welfare, Govt. of the Peoples' Republic of Bangladesh
6. Very much aware of Government of Bangladesh's Access to Information (a2i) Programme aiming to ensure easy, cost effective, transparent and reliable access to quality public services for all citizens of Bangladesh according to "Right to Information Act of 2009".
7. Implemented e-learning content on Antimicrobial Resistance and Infection Prevention & Control for Pharmacist during dispensing and counselling from the pharmacy by hosting to PCB website through a2i-muktapaath platform with the support of the Management Sciences for Health (MSH) and Better Health Bangladesh (BHB).
8. Actively working as a member of the technical sub-committee of Drug Control Committee (DCC)/ CMC committee /Clinical Trial and Toxicology committee of Director General of Drug Administration (DGDA) under the Ministry of Health and Family Welfare, Govt. of the Peoples' Republic of Bangladesh
9. Actively engaged in implementing hospital and clinical pharmacy practice in Bangladesh in tertiary care hospitals as a part of safe medication practice and rational use of medicines.

## LIST OF PUBLICATIONS

### A. BOOK CHAPTERS

10. Frontiers in Pharmacology, [Drug Development of Herbal Medicines: Regulatory Perspectives](#) edited by Subhash C. Mandal, Anna Rita Bilia, Pulok K. Mukherjee, Adolfo Andrade-Cetto, Chandra Kant Katiyar, **Sitesh C. Bachar**, and Motlapula Gilbert Matsabia; published by **Elsevier Inc**; USA, in Press (2022)

9. **Sitesh C Bachar**, A K M Shafiul Kadir, S M Riajul Wahab, Abdullah Al Hasan. Synthetic Heterocyclic Anticancer Compounds Derived from Natural Sources In: Key Heterocyclic Cores for Smart Anticancer Drug-Design edited by Rajesh Kumar Singh, Bentham Publishers Publisher's Pvt Ltd;, Singapore, Chapter 1, July, 2022, 1-56.
8. **Sitesh C Bachar and Kishor Mazumder**. Environmental and Health Impacts of Polymer Nanocomposites In: Advanced Polymer Nanocomposites: Science, Technology and Applications, Md Enamul Hoque, R. Kumar, Ahmed Sharif ed. Elsevier Inc; USA; Chapter 31, January 2022, 547-570
7. **Sitesh C Bachar**, Ritesh Bachar, Khoshnur Jannat, Rownak Jahan, Mohammed Rahmatullah. Hepatoprotective Natural Compounds In: Annual Reports in Medicinal Chemistry, Medicinal Natural Products: A Disease-Focused Approach; Satyajit D. Sarker and Luthfun Nahar, Ed.; Elsevier Inc; USA; Chapter 7, Volume 55, 207-249, 2020
6. B. K. Sajeeb, Mohammad Zashim Uddin and **Sitesh C. Bachar**. Traditional Knowledge of Medicinal Plants Used by the Ethnic People of Khagrachari District, Bangladesh. Traditional Knowledge published by CSIR.
5. **Sitesh C Bachar**, contributing and reviewing chapters for the preparation of Bangladesh National Formulary, 2105 Forth Edition, published by Directorate general of Drug Administration, June 2015.
4. Rownak Jahan, **Sitesh C. Bachar**, Abdullah-Al-Nahain and Mohammed Rahmatullah Pharmacological Activities and Therapeutic Potential of Saraca asoca and its Phytoconstituents in MEDICINAL PLANTS: Phytochemistry, Pharmacology and Therapeutics Vol 4, published by Daya Publishing House, New Delhi, India, Chapter 3, 79-125, 2016
3. **Sitesh C Bachar**, Rawnak Jahan, Md. Saiful Islam Ronney and Mohammad Rahmatullah. Folk use of Medicinal Plants Against Malaria-Fabaceae and Apocynaceae Family. Traditional Medicine and Globalization-The Future of Ancient Systems of Medicine, Edited by Pulok K Mukherjee, Maven Publishers, India. March, Chap 24; 261-271, 2014
2. **Sitesh C Bachar**. Community Pharmacy, Chapter 11, Sahoj Oshudbiggan, First Edition, published by Bangladesh Pharmacy Council, Dhaka, Bangladesh, 2011
1. **Sitesh C Bachar**. Bangladesh National Formulary 2001, Appendix 7, First Edition, published Directorate of Drug Administration, 105-106 Motijheel C/A, Dhaka-1000 in association with Bangladesh Medical Association, BMA Bhaban, 15/2 Topkhana Road, Dhaka-1000 and Bangladesh Pharmaceutical Society.

## **B. RESEARCH ARTICLES**

130. Mamun Al Mahatab, Sitesh C. Bachar, Kakon Nag, Mohammad Mohiuddin, Md. Abdur Rahim, Md. Helal Uddin, Samir Kumar, Md. Maksudur Rahman Khan, Md. Enamul Haq Sarker, Rony Roy, Sourav Chakraborty, Bipul Kumar Biswas, Md. Emrul Hasan Bappi, Ratan Roy, Uttam Barman and Naznin Sultana. Clinical evaluation in adult human revealed the biosimilarity of recombinant Erythropoietin GBPD002 with Eprex®. Archives in Clinical and Biomedical Research, Vol. 7 (4), 459-468. DOI. 10.26502/acbr.50170361

129. B. K. Sajeeb, Mohammad Zashim Uddin, Ritesh Bachar and Sitesh C. Bachar. Ethnobotanical study on medicinal plants used by the ethnic people of Khagrachhari district, Bangladesh. *Dhaka Univ. J. Pharm. Sci.* 21(2): 217-230, 2022 (December). DOI.org/10.3329/dujps.v21i2.63122.
128. Kishor Mazumder, Asma Aktar, Priyanka Roy, Biswajit Biswas, Md. Emran Hossain, Kishore Kumar Sarkar, **Sitesh Chandra Bachar**, Firoj Ahmed, A. S. M. Monjur-Al-Hossain and Koichi Fukase. A Review on Mechanistic Insight of Plant Derived Anticancer Bioactive Phytocompounds and Their Structure Activity Relationship. *MDPI Molecules* 2022, 27, 3036. DOI.org/10.3390/molecules27093036
127. Mamun Al Mahtab, Md. Sharfuddin Ahmed, **Sitesh Chandra Bachar**, Kakon Nag, Naznin Sultana, Md. Abdur Rahim, Ritesh Bachar, Nipa Bain, Musarrat Mahtab, Mohammad Helal Uddin, and Sheikh Mohammad Fazle Akbar. The Other Side of the Coin of COVID-19: Development of Molecular and Genetic Sectors in Developing Countries as Exemplified by BANGAVAX® from Bangladesh. *Acta Scientific Medical Sciences, Special Issue 2*: 17-26, 2022, DOI: 10.31080/ASMS.2022.S02.0005.
126. **Sitesh C. Bachar**, Kishor Mazumder, Ritesh Bachar, Asma Aktar and Mamun Al Mahtab. A Review of Medicinal Plants with Antiviral Activity Available in Bangladesh and Mechanistic Insight of Their Bioactive Metabolites on SARS-CoV-2, HIV, and HBV. *Frontiers in Pharmacology*, 12: 2021, Article 732891, doi: 10.3389/fphar.2021.732891.
125. Md. Jahidul Hasan, Raihan Rabbani, Ahmad Mursel Anam, Shihan Mahmud Redwanul Huq, Mohammad Mufizul Islam Polash, Shahzadi Sayeeda Tun Nessa, Sitesh C. Bachar. Impact of high dose of baricitinib in severe COVID-19 pneumonia: a prospective cohort study in Bangladesh. *BMC Infectious Diseases* 21:427, 2021.
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122. Satyajit D Sarker, Lutfun Nahar, Sitesh C Bachar, Mohammad A Rashid. Twenty Years, Twenty Publications and could have been more: Revisiting Research Collaboration with Professor Bidyut Kanti Datta. *Dhaka Univ. J. Pharm. Sci.* 19 (2), 97-103, 2020.
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117. Suvash Chandra Roy , B. K. Sajeeb, Md. Abdul Muhit and Sitesh C. Bachar. Evaluation of Antioxidant and Cytotoxic Activities of Aerial Parts of *Adiantum capillus-veneris* L. Growing in Bangladesh. *Dhaka Univ. J. Pharm. Sci.* 18(2): 217-222, 2019.
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83. Sitesh C Bachar. “Importance and Impacts of Medicinal Plant Cultivation in Bangladesh” Proceedings of the International conference on “Updates on natural Products in Medicine and health care Systems” Department of Biotechnology and Genetic Engineering, Khulna university, Bangladesh, 2013. (Seminar Proceedings) Abstract



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