

ISSN: 0301-4606

eISSN: 2408-8463

BANGLADESH PHARMACEUTICAL JOURNAL

Vol. 26, No. 1 January 2023

This publication is covered by BanglaJOL, Google Scholar, ROAD, CROSSREF, ResearchGate, Scilit, Sciencegate, and several other abstracting systems.

In addition all papers of each issue are available in https://www.banglajol.info/index.php/BPJ

EDITORIAL BOARD

Editor-in-Chief

Professor Dr. Md. Abdur Rashid, FRSC

Department of Pharmaceutical Chemistry & Former Dean, Faculty of Pharmacy, University of Dhaka

Executive Editor

Professor Dr. Md. Khalid Hossain

Former Chairman, Department of Pharmaceutical Chemistry Faculty of Pharmacy, University of Dhaka

Members

Professor Dr. Md. Saiful Islam

Faculty of Pharmacy, University of Dhaka

Professor Dr. Md. Sohel Rana

Department of Pharmacy, Jahangirnagar University

Professor Dr. Md. Shah Amran

Faculty of Pharmacy, University of Dhaka

Professor Dr. Mamunur Rashid

Department of Pharmacy, University of Rajshahi

Professor Dr. Md. Abdul Mazid

Faculty of Pharmacy, University of Dhaka

Professor Md. Saiful Islam Pathan

Department of Pharmacy, State University of Bangladesh

Professor Dr. Mohiuddin Ahmed Bhuiyan

Department of Pharmacy, University of Asia Pacific

Professor Dr. Mohammad Safigul Islam

Department of Pharmacy, Noakhali Science &

Technology University

Professor Dr. Mohammad Shahriar

Department of Pharmacy, University of Asia Pacific

Professor Dr. Hasnat A. Alamgir Shahriar

Department of Public Health, International University of

Business Agriculture & Technology

Dr. Kishor Majumder

Department of Pharmacy,

Jashore University of Science & Technology

Professor Dr. Md. Selim Reza

Faculty of Pharmacy, University of Dhaka

Professor Dr. Md. Aslam Hossain

Faculty of Pharmacy, University of Dhaka

Professor Dr. Mustafizur Rahman

Pharmacy Dicipline, Khulna University

Professor Dr. Md. Hassan Kawsar

Department of Pharmacy, State University of Bangladesh

Professor Dr. Md. Elias Al-Mamun

Faculty of Pharmacy, University of Dhaka

Professor Dr. Sufia Islam

Department of Pharmacy, East West University

Professor Dr. Hasan Mahmud Reza

Dean, School of Health Science, North South University

Professor Dr. Mohammad Akter Sayeed

Dean, Faculty of Science & Engineering, International

Islamic University of Chittagong

Professor Dr. Mohammad Rashedul Haque

Faculty of Pharmacy, University of Dhaka

Dr. Mohammad Kaisarul Islam

Moreland Discount Chemist, Brunswick, VIC 3055,

Australia

Published by: **Bangladesh Pharmaceutical Society**, 22 Dhanmondi R/A, Road 2, Dhaka-1205, Bangladesh

E-mail: bps@agni.com, Web: www.bps-bd.org

Advisors

Professor Dr. Abdul Ghani

Department of Pharmacy, Jahangirnagar University

Professor Dr. Rebecca Banoo

Faculty of Pharmacy, University of Dhaka

Professor A.Y. Sk. Firoz Uddin Ahmed Chowdhury

Department of Pharmacy, Primeasia University

Professor Dr. Reza-ul Jalil

Faculty of Pharmacy, University of Dhaka

Professor Dr. Nurun Nahar Rahman

Faculty of Pharmacy, University of Dhaka

Professor Dr. Choudhury Mahmood Hasan

Faculty of Pharmacy, University of Dhaka

Mr. Md. Nasser Shahrear Zahedee

Chairman, Radiant Pharmaceuticals Ltd.

Professor Dr. Nazmul Qais

Faculty of Pharmacy, University of Dhaka

Mr. Muhsin Mia

Director, Marketing Operations, ACI Limited

International Advisors

Professor Dr. Muhammad Ilias

Research Institute of Pharmaceutical Sciences The University of Mississippi, USA

Professor Dr. Shafiqur Rahman

College of Pharmacy & Allied Health Professions South Dakota State University, USA

Dr. Mohammad Tawhidul Haque Nutan

Texas A&M Irma Lerma Rangel College of Pharmacy Texas A&M University, USA **Professor Dr. Panna Thapa**KU School of Science

Kathmandu University (KU), Nepal

Professor Dr. Khondaker Miraz Rahman

School of Cancer & Pharmaceutical Sciences King's College London, UK

Dr. Mukhlesur Rahman

School of Health, Sport and Bioscience University of East London, UK

Dr. Ruhul Amin

School of Pharmacy Marshall University, West Virginia, USA

Bangladesh Pharmaceutical Society (BPS)Central Executive Council

Name & Portfolio	Institutional Affiliation
Mr. A. T. M. Fakhor Uddin Chowdhury	House-29, Apt B2, Block - A, Road - 1, Niketon,
President	Gulshan-1, Dhaka-1212
Prof. Dr. Md. Abdur Rashid, FRSC	Department of Pharmaceutical Chemistry &
Vice President	Former Dean, Faculty of Pharmacy, University of Dhaka, Dhaka-1000
Mr. Md. Abul Khair Chowdhury	Former Director, Directorate General of Drug
Vice President	Administration (DGDA), Mohakhali Bazar Rd, Dhaka 1212
Prof. Dr. Md. Hassan Kawsar	Department of Pharmacy
General Secretary	State University of Bangladesh, Dhanmondi, Dhaka-1205
Prof. Dr. Md. Sohel Rana	Department of Pharmacy
Joint Secretary	Jahangirnagar University, Savar, Dhaka
Prof. Dr. Mohiuddin Ahmed Bhuiyan	Department of Pharmacy, University of Asia Pacific
Joint Secretary	74/A Green Rd, Dhaka 1205
Prof. Dr. Md. Aslam Hossain	Faculty of Pharmacy, University of Dhaka
Finance Secretary	Dhaka-1000
Mr. Mohammad Shamsul Alam	Senior Assistant Manger, International Business, Radiant
Organizing Secretary	Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhaka-1205
Mr. Aninda Kumar Nath	Assistant Professor, Department of Pharmacy
Publication Secretary	BGC Trust University Bangladesh, Chittagong
Mr. Md. Mahbubul Islam	General Manager, Drug International Ltd.
Member	Tongi Industrial Area, Gazipur-1710
Mr. Md. Nasser Shahrear Zahedee	Chairman, Radiant Pharmaceuticals Limited
Member	22 Dhanmondi, Road-2, Dhaka-1205
Prof. Md. Saiful Islam Pathan	Head, Department of Pharmacy
Member	State University of Bangladesh, Dhanmondi, Dhaka-1205
Prof. Dr. Md. Selim Reza	Faculty of Pharmacy, University of Dhaka
Member	Dhaka-1000
Mr. Akhil Dutta	General Manager, Bengal Remedies Limited
Member P. M. A. G. P. I.	Tongi, Gazipur
Prof. Dr. Mustafizur Rahman	Pharmacy Discipline
Member Prof. Mr. Masum Shahriar	Khulna University, Khulna
Member	Department of Pharmacy
Mr. Mohammad Ashraful Alam	Jahangirnagar University, Savar, Dhaka General Manager- Marketing, Radiant Pharmaceuticals Limited, 22
Member	Dhanmondi, Road-2, Dhaka-1205
Mr. Mohammad Aksir Uzzal Khan	Senior Production Officer, Essential Drugs Company Limited
Member	395-397, Tejgaon I/A, Dhaka-1208.
MEHIOGI	J7J-J71, Tejgaoli I/A, Dhaka-1200.

BANGLADESH PHARMACEUTICAL JOURNAL

Vol. 26, No. 1 January	
CONTENTS	
Anti-inflammatory Activity of the Phenolic Compounds from <i>Vanda roxburghii</i> R. Br. Md. Salim Ahammed, Md. Abdul Kader, K.M. Monirul Islam, Simin Shobnom Lopa, A.H.M.K. Alam and Golam Sadik DOI: https://doi.org/10.3329/bpj.v26i1.64211	1-6
In vitro Antioxidant and Free Radical Scavenging Activity of Lippia alba (Verbenaceae) Md. Omar Ali, Naznin Ara Khatune, Mst. Shahnaj Parvin, A.H.M. Khurshid Alam and Md. Aziz Abdur Rahman DOI: https://doi.org/10.3329/bpj.v26i1.64212	7-14
Development and Validation of a New Method for Simultaneous Estimation of Ramipril and Carvedilol by HPLC Md. Shariful Islam, Md. Zakir Sultan, Md. Saiful Islam, Hasina Akhter Simol and Md. Abdus Salam DOI: https://doi.org/10.3329/bpj.v26i1.64213	15-19
Antioxidant, Anti-inflammatory, Antimicrobial and Thrombolytic Activities of <i>Eclipta alba</i> L. Growing in Bangladesh Aruna Barua, Md. Ruhul Kuddus, M. Mohi Uddin Chowdhury, Mohammad A. Rashid and Mohammed Ibrahim DOI: https://doi.org/10.3329/bpj.v26i1.64214	20-27
Stixis suaveolens (Roxb.) Fruit Extract Deciphered Antidepressant and Antidiarrheal Effects via in vivo Approach Md. Monirul Islam, Md. Jamal Hossain, Miss Sharmin Zahan, Farjahan Nur, Muhammad Abdullah Al-Mansur and Mohammad A. Rashid DOI: https://doi.org/10.3329/bpj.v26i1.64215	28-35
Development of Resistant Starch-Pectin Microsphere for Improving Oral Colon-specific Drug Delivery of 5-Fluorouracil Nushrat Jahan Ema, S.M. Rakibul Hossain, Saimon Shahriar, Muhammad Rashedul Islam and Jakir Ahmed Chowdhury DOI: https://doi.org/10.3329/bpj.v26i1.64216	36-44
Evaluation of Analgesic, Antioxidant, Cytotoxic and Thrombolytic Potential of Stachytarpheta cayennensis (Rich.) Vahl Leaves Asif Uj Jaman, Sharmin Akhter, Saimon Shahriar, Md. Bappy Hawlader, Mehedi Islam and Mohammad A. Rashid DOI: https://doi.org/10.3329/bpj.v26i1.64217	45-50
<i>In vitro</i> Antioxidant, Thrombolytic and Membrane Stabilizing Activities of the <i>Rourea minor</i> Leaves Jannatul Ferdous, Mohammad Ashraful Islam, S. M. Neamul Kabir Zihad, Md. Fazlul Karim Tipu, Md. Alamgir Kabir, Md. Mobinul Haque Adon, Jyotimoi Gosh and Jakir Ahmed Chowdhury DOI: https://doi.org/10.3329/bpj.v26i1.64218	51-55

Knowledge, Attitudes and Precautions Towards COVID-19 Pandemic among Bangladeshi Population: A Cross-Sectional Study Md. Alamgir Kabir, Tania Akter Jhuma and Muhammad Rashedul Islam DOI: https://doi.org/10.3329/bpj.v26i1.64219	
Comparison of Antimicrobial and Membrane Stabilizing Properties of Leaf and Stem Extracts of <i>Derris scandens</i> (Roxb.) Benth. (Family: Fabaceae) Saimon Shahriar, Asif Uj Jaman, Samir Saha, Md. Sabbarul Islam, Md. Rafiqul Islam, Biprojit Saha, Md. Al Amin Sikder and Mohammad A. Rashid DOI: https://doi.org/10.3329/bpj.v26i1.64220	67-72
In vitro Study of Antioxidant Potentials and Thrombolytic Activity of the Leaves of Delonix regia (Family: Fabaceae) Mahfuzul Kabir, Md Fazlul Karim Tipu, Mohammad Ashraful Islam, Saimon Shahriar, Al-Amin, Labib Khan, Md. Alamgir Kabir and Abu Asad Chowdhury DOI: https://doi.org/10.3329/bpj.v26i1.64221	73-78
Self-medication Practice and its Potential Determinants among Riverine-Island's People in Sirajganj, Bangladesh: A Cross-Sectional Study Safayet Jamil, Quazi Istiaque Bari, Asma Akhter, Mahdi Hasan, Md. Emdadul Hasan Mukul, Parisa Tamannur Rashid and Md. Jamal Hossain DOI: https://doi.org/10.3329/bpj.v26i1.64222	79-88
<i>In vitro</i> and <i>in vivo</i> Pharmacological Studies of Leaves of <i>Staurogyne argentea</i> Wall. Suhana Manzur Chowdhury, Irin Sultana, Md. Ruhul Kuddus and Mohammed Ibrahim DOI: https://doi.org/10.3329/bpj.v26i1.64223	89-98
Isolation of Antimicrobial Peptides (AMPs) From Different Sources: A Review Md. Monirul Islam, Sabbir Uz Zaman, Fahim Asif, Md. Kamrul Hasan Arnab, Md. Mostafizur Rahman and Moynul Hasan DOI: https://doi.org/10.3329/bpj.v26i1.64224	99-111
New Drug Approvals	113
New Indications & Dosage Forms for Existing Drugs	114-118
Medical and Health News	119-120
Herbal Medicine News	121-123

Notice to Contributors

Bangladesh Pharmaceutical Journal is a peer revuewed international and multidisciplinary journal, published by Bangladesh Pharmaceutical Society in January and July of each year. Original research papers or review articles are accepted on the understanding that they are subject to editorial revision, that their contents have not been published elsewhere and that in consideration of acceptance of a text for publication, the copyright of the said text is assigned to the Bangladesh Pharmaceutical Journal.

Contributions

Manuscripts for publication and communications concerning editorial matters should be sent to the Editor-in-Chief through e-mail: bpjeditor@yahoo.com. A copy of the same should also be sent to the Executive Editor through e-mail: executiveeditor2014@gmail.com.

Preparation of Text

Authors should consult a CURRENT issue of the journal and conform to the typographical conventions, use of headings, layout of tables and citation of references. Texts must be computer composed (MS office programs should be used in preparing the texts, charts and graphs) in double spacing and printed in one side of A4 size offset paper, with a minimum margin of 1 inch on all sides. Two sets of hard copies should be submitted along with soft copy in CD. The articles may also be sent through E-mail to the Editor-in-Chief or Executive Editor.

The name(s) of the contributor(s), affiliation of the laboratory where the work was done and a shortened title should accompany the typescript. A summary page should be included, describing results and conclusions in the form of ABSTRACT suitable for use as such by the abstracting journals. It should not exceed 250 words. A list of 3-6 Key words should be supplied by the authors.

References

All citations in the text must appear in the References list and *vice versa*. In the text, the reference should appear as either: Ghani (1984) described, or As described previously (Ghani, 1984). When there are more than two authors, mention only the first author, e.g. Ghani *et al.*, 1984. If the year is same for several references identify these with a,b,c, etc. e.g. Ghani (1975a,b,c) both in the text and in the Reference list. In the Reference list, arrange the references in alphabetical order. References should follow thppe format shown:

Khan, S., Jabbar, A., Hasan, C.M. and Rashid, M.A. 2000. Nasimaluns A and B: neo-clerodane diterpenoids from Barringtonia racemosa. J. Nat. Prod. 63, 410-411.

Rashid, M.A., Gustafson, K.R., Crouch, R.C., Groweiss, A., Pannell, L.K., Van, Q.N. and Boyd, M.R. 2002. Application of high-field NMR and cryogenic probe technologies in the structure elucidation of poecillastrin A, a new antitumor macrolide lactam from the sponge *Poecillastra* species. *Org. Lett.* 4, 3293-3296.

Harborne, J.B. and Williams, C.A. 2000. Advances in flavonoid research since 1992. *Phytochemistry* **55**, 481-504.

Mabry, T., Markham, K.R. and Thomas, M.B. 1971. *The Systematic Identification of Flavonoids*. Springer Verlag, New York, p. 43.

Harborne, J.B. 1983. In: *Chemistry and Chemical Taxonomy of the Rutales* (Waterman, P.G. and Grundon, M.F., Eds.), Academic Press, London, Chapter 2, pp. 147-173.

Hasan, C.M. 1982. Phytochemical studies on some African Annonaceae. Ph. D. Thesis, University of Strathclyde, U.K., p. 35.

Davis, R. 1998. US Patent 5, 708,591.

Abbreviations

Abbreviations are used without periods. Standard abbreviations should be used throughout the manuscript. The preferred forms of some of the more commonly used abbreviations are mp, bp, °C, K, s, min, h, ml, µl, kg, g, mg, µg, cm, mm, nm, mol, mmol, µmol, ppm, TLC, GC, NMR, MS, UV, IR, etc.

Tables

Tables should be typed in appropriate places in the text and numbered consecutively using Arabic numerals (e.g. 1, 2, 3). Their headings should briefly describe their contents.

Graphs and Photographs

All graphs and charts should be made with either MS Excel or Harvard Graphics software along with title and legends. Photographs, either colored or black & white should be developed on glossy paper. Title and legends of the photographs should be typed at the end of the manuscript. The photographs should also be marked at the back with figures number and title of the paper.

If the author scans a photograph, the preferable file formats are Adobe photoshop, JPEG, PSD, BMP. The resolution should not be less than 200 and the size of the photographs should be at least double.

Proofs

Galley proofs will be sent to the corresponding author, which s/he is requested to correct and return as soon as possible. No new matter be inserted in the text and no changes be made in the title or author name(s) at the time of proof reading.

Declaration

All authors are requested to sign a declaration that the work described in the manuscript was carried out by them and the contents of the paper have not been published before or submitted elsewhere for publication. When the number of authors/co-authors is more than one, the corresponding author is required to mention the exact contribution of each co-author and also indicate his/her percentage of contribution.

Editorial Office

Bangladesh Pharmaceutical Journal C/o. Bangladesh Pharmaceutical Society 22 Dhanmondi R/A, Road 2, Dhaka-1205, Bangladesh E-mail: bpjeditor@yahoo.com, executiveeditor2014@gmail.com Web: www.bpj-bd.com

©Bangladesh Pharmaceutical Society. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the Bangladesh Pharmaceutical Society.