

ISSN: 0301-4606

BANGLADESH PHARMACEUTICAL JOURNAL

Vol. 24, No. 1 January 2021

EDITORIAL BOARD

Editor-in-Chief

Professor Dr. Md. Anwar Ul Islam

Department of Pharmacy & Former Dean, Faculty of Science, Rajshahi University

Executive Editor

Professor Dr. Md. Abdur Rashid, FRSC

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

Members

Professor A.Y. Sk. Firoz Uddin Ahmed Chowdhury

Department of Pharmacy, Jahangirnagar University

Professor Dr. Reza-ul Jalil

Faculty of Pharmacy, University of Dhaka

Professor Dr. Md. Saiful Islam

Faculty of Pharmacy, University of Dhaka

Professor Md. Saiful Islam Pathan

Department of Pharmacy, State University of Bangladesh

Professor Dr. Md. Aslam Hossain

Faculty of Pharmacy, University of Dhaka

Professor Dr. Md. Khalid Hossain

Faculty of Pharmacy, University of Dhaka

Professor Dr. Mohiuddin Ahmed Bhuiyan

Department of Pharmacy, University of Asia Pacific

Mr. Md. Nasser Shahrear Zahedee

Chairman, Radiant Pharmaceuticals Ltd.

Professor Dr. Nazmul Qais

Faculty of Pharmacy, University of Dhaka

Professor Dr. Md. Selim Reza

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

Dr. Md. Hassan Kawsar

Department of Pharmacy, State University of Bangladesh

Advisors

Professor Dr. Abdul Ghani

Department of Pharmacy, Primeasia University

Professor Dr. Rebecca Banoo

Faculty of Pharmacy, University of Dhaka, Bangladesh

Professor Dr. Nurun Nahar Rahman

Department of Pharmacy, Manarat International University

Professor Dr. Choudhury Mahmood Hasan

Faculty of Pharmacy, University of Dhaka

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

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

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
Professor Dr. Md. Anwar Ul Islam	Former Dean, Faculty of Science, Rajshahi University,
Vice President	Rajshahi-6205
Mr. Md. Abul Khair Chowdhury	Former Director, Directorate General of Drug
Vice President	Administration (DGDA), Dhaka-1000
Dr. Md. Hassan Kawsar	Professor, 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	Dhanmondi, 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 De la Maria Dela Mar	22 Dhanmondi, Road-2, Dhaka-1205
Prof. Md. Saiful Islam Pathan	Head, Department of Pharmacy
Member P. M. G. H. D.	State University of Bangladesh, Dhanmondi, Dhaka-1205
Prof. Dr. Md. Selim Reza	Faculty of Pharmacy, University of Dhaka
Member Mr. All P. W.	Dhaka-1000
Mr. Akhil Dutta Member	General Manager, Bengal Remedies Limited
Prof. Dr. Mustafizur Rahman	Tongi, Gazipur Professor, Pharmacy Discipline
Member	University of Khulna, Khulna
Mr. Masum Shahriar	Associate Professor, Department of Pharmacy
Member	Jahangirnagar University, Savar, Dhaka
Mr. Mohammad Ashraful Alam	Marketing Manager, Radiant Pharmaceuticals Limited
Member	22 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.
MICHIOCI	373-371, 10jgavii 1/A, Diiaka-1200.

Computer formatted & printed by:

Hasib Computers & Printing, 62/1 Purana Paltan (2nd floor), Dhaka-1000, Bangladesh Phone: 01552-388130, 01612-388130, 9016429 (Res.), E-mail: hasibprinting@gmail.com

BANGLADESH PHARMACEUTICAL JOURNAL

Vol. 24, No. 1 January	2021
CONTENTS	
Bioactivities of <i>Colocasia affinis</i> Schott and Profiling of its Bioactive Polyphenols by HPLC-DAD Shrabanti Dev, Rabindra Nath Acharyya, Manik Chandra Shill, Md. Abdullah Al Bari, Kaniz Asma, Imran Mahmud, Hemayet Hossain, Nripendra Nath Biswas, Masum Shahriar and Asish Kumar Das DOI: https://doi.org/10.3329/bpj.v24i1.51629	1-10
Comparative Cytotoxicity of Selected <i>Mikania</i> species using Brine Shrimp Lethality Bioassay and Sulforhodamine B (SRB) Assay Rafeza Khatun, Iffat Hasnin, Anamul Haque and Md. Aziz Abdur Rahman DOI: https://doi.org/10.3329/bpj.v24i1.51630	11-16
Formulation and Antioxidant Activity Evaluation of Spondias mombin - Abelmoschus esculentus Mucilage Emulsion	
Joseph O. Oiseoghaede, Aminat A. Oyawaluja, Olukemi A. Odukoya, Margaret O. Ilomuanya, Oriyomi I. Yinusa and Omotayo K. Raji DOI: https://doi.org/10.3329/bpj.v24i1.51631	17-25
A Comparative Study of Memory, Attention, Cognition and Oestradiol in Pre and Postmenopausal Women in Bangladesh	
Kaniz Rabeya, Mamtaz Mahal Neela, Ragib Ahsan, Bishyajit Kumar Biswas and Md. Monir Hossain DOI: https://doi.org/10.3329/bpj.v24i1.51632	26-32
Phytochemical Investigation of <i>Schleichera oleosa</i> (Lour.) Oken Leaf Noushin Anjum, Md. Jamal Hossain, Mohammad Rashedul Haque, Akhtaruzzaman Chowdhury, Mohammad A. Rashid and Md. Ruhul Kuddus DOI: https://doi.org/10.3329/bpj.v24i1.51633	33-36
Assessment of Quality of Azithromycin, a Macrolide Antibiotic by NMR Spectroscopy Mohammad Shoeb, Md. Farhanul Alam, Md. Mazharul Islam, Nargis Parvin, Md. Nazrul Islam and Md. Iqbal Rouf Mamun DOI: https://doi.org/10.3329/bpj.v24i1.51634	37-44
Evaluation of Red and Green Colored Bell peppers for the Production of Polyclonal IgM and IgG Antibodies in Murine Spleen Cells Md. Moklesur Rahman Sarker DOI: https://doi.org/10.3329/bpj.v24i1.51635	45-53
Nutritional Analysis and Mineral Content Determination of <i>Emilia sonchifolia</i> DC Md. Masud Morshed, Md. Sohel Rana, Talha Bin Emran, Md. Didaruzzaman Sohel and Mohammad Hassan Kawsar DOI: https://doi.org/10.3329/bpj.v24i1.51636	54-59
Review article Understanding and Dealing the SARS-CoV-2 Infection: An Updated Concise Review Md. Jamal Hossain, Md. Ruhul Kuddus, Mohammad A. Rashid and Md. Zakir Sultan DOI: https://doi.org/10.3329/bpj.v24i1.51637	61-76

A Short Review on the Bioactive Constituents from Six <i>Terminalia</i> Species Mohammad Musarraf Hussain DOI: https://doi.org/10.3329/bpj.v24i1.51638	76-82
Current Pharma News	80-86
New Drug Approvals	87-88
New Indications & Dosage Forms for Existing Drugs	89-90

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 the 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.