

ISSN: 0301-4606

BANGLADESH PHARMACEUTICAL JOURNAL

Vol. 21, No. 2 July 2018

EDITORIAL BOARD

Editor-in-Chief

Professor Dr. Md. Anwar Ul Islam

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

Executive Editor Dr. Md. Abdur Rashid, FRSC

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

Members

Professor A.Y. Sk. Firoz Uddin Ahmed Chowdhury M.

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

Mr. A. T. M. Fakhor Uddin Chowdhury President Professor Md. Anwar Ul Islam Vice President Mr. Md. Abul Khair Chowdhury Vice President Dr. Md. Hassan Kawsar General Secretary Prof. Dr. Md. Aslam Hossain Finance Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Md. Mabbubul Islam Mr. Md. Nasser Shahrear Zahedee Member Mr. Md. Nasser Shahrear Zahedee Member Professor Md. Anwar Ul Islam Former Director, Directorate General of Drug Administration (DGDA), Dhaka-1000 Former Director, Directorate General of Drug Administration (DGDA), Dhaka-1000 Administration (DGDA), Dhaka-1000 Prof. Dr. Md. Sohel Rana Department of Pharmacy State University of Bangladesh, Dhanmondi, Dhaka-120 Department of Pharmacy, University of Asia Pacific Dhanmondi, Dhaka-1205 Prof. Dr. Md. Aslam Hossain Finance Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Md. Mahbubul Islam General Manager, Drug International Ltd. Tongi Industrial Area, Gazipur-1710 Mr. Md. Nasser Shahrear Zahedee Member Dr. Mr. Mal. State University Chairman, Radiant Pharmaceuticals Limited Department of Pharmaceuticals Limited Department of Pharmacy Department of Pharmacy University of Dhaka Dhaka-1000 Senior Assistant Manger, International Business, Radian Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhaka Department of Pharmacy Depart	5
Professor Md. Anwar Ul Islam Vice President Mr. Md. Abul Khair Chowdhury Vice President Dr. Md. Hassan Kawsar General Secretary Prof. Dr. Md. Sohel Rana Joint Secretary Prof. Dr. Md. Aslam Hossain Finance Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Aninda Kumar Nath Publication Secretary Mr. Md. Mahbubul Islam Member Mr. Md. Nasser Shahrear Zahedee Member Former Dean, Faculty of Science, Rajshahi University, Rajshahi-6205 Former Director, Directorate General of Drug Administration (DGDA), Dhaka-1000 Associate Professor, Department of Pharmacy State University of Bangladesh, Dhanmondi, Dhaka-1205 Popartment of Pharmacy Jahangirnagar University, Savar, Dhaka Department of Pharmacy, University of Asia Pacific Dhanmondi, Dhaka-1205 Faculty of Pharmacy, University of Dhaka Finance Secretary Dhaka-1000 Mr. Mohammad Shamsul Alam Organizing Secretary BGC Trust University Bangladesh, Chittagong Mr. Md. Nasser Shahrear Zahedee Chairman, Radiant Pharmaceuticals Limited Member Chairman, Radiant Pharmaceuticals Limited Member	5
Vice President Mr. Md. Abul Khair Chowdhury Vice President Dr. Md. Hassan Kawsar General Secretary Prof. Dr. Md. Sohel Rana Joint Secretary Joint Secretary Prof. Dr. Md. Aslam Hossain Finance Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Aninda Kumar Nath Publication Secretary Mr. Md. Nasser Shahrear Zahedee Member Rajshahi-6205 Former Director, Directorate General of Drug Administration (DGDA), Dhaka-1000 Associate Professor, Department of Pharmacy State University of Bangladesh, Dhanmondi, Dhaka-1200 Pepartment of Pharmacy Jahangirnagar University, Savar, Dhaka Department of Pharmacy, University of Asia Pacific Dhanmondi, Dhaka-1205 Prof. Dr. Md. Aslam Hossain Faculty of Pharmacy, University of Dhaka Finance Secretary Dhaka-1000 Mr. Mohammad Shamsul Alam Organizing Secretary Dhaka-1000 Mr. Aninda Kumar Nath Publication Secretary Chairman, Radiant Pharmaceuticals Limited Chairman, Radiant Pharmaceuticals Limited Chairman, Radiant Pharmaceuticals Limited Chairman, Radiant Pharmaceuticals Limited Department of Pharmacy Department of Pharmacy Department of Pharmacy Dhaka-1205	5
Mr. Md. Abul Khair Chowdhury Vice President Dr. Md. Hassan Kawsar General Secretary Prof. Dr. Md. Sohel Rana Joint Secretary Prof. Dr. Mohiuddin Ahmed Bhuiyan Joint Secretary Department of Pharmacy Joint Secretary Prof. Dr. Md. Aslam Hossain Finance Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Aninda Kumar Nath Publication Secretary Mr. Md. Mahbubul Islam Mr. Md. Nasser Shahrear Zahedee Member Former Director, Directorate General of Drug Administration (DGDA), Dhaka-1000 Associate Professor, Department of Pharmacy State University of Bangladesh, Dhanmondi, Dhaka-1209 Department of Pharmacy, University of Asia Pacific Dhanmondi, Dhaka-1205 Faculty of Pharmacy, University of Dhaka Finance Secretary Dhaka-1000 Mr. Mohammad Shamsul Alam Organizing Secretary BGC Trust University Bangladesh, Chittagong Mr. Md. Nasser Shahrear Zahedee Chairman, Radiant Pharmaceuticals Limited Member	5
Vice President Administration (DGDA), Dhaka-1000 Dr. Md. Hassan Kawsar General Secretary Prof. Dr. Md. Sohel Rana Joint Secretary Prof. Dr. Mohiuddin Ahmed Bhuiyan Joint Secretary Prof. Dr. Md. Aslam Hossain Finance Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Aninda Kumar Nath Publication Secretary Mr. Md. Mahbubul Islam Member Administration (DGDA), Dhaka-1000 Associate Professor, Department of Pharmacy State University of Bangladesh, Dhanmondi, Dhaka-1200 Department of Pharmacy, University of Asia Pacific Dhanmondi, Dhaka-1205 Faculty of Pharmacy, University of Dhaka Finance Secretary Dhaka-1000 Mr. Mohammad Shamsul Alam Organizing Secretary Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhaka Mr. Aninda Kumar Nath Assistant Professor, Department of Pharmacy BGC Trust University Bangladesh, Chittagong Mr. Md. Mahbubul Islam General Manager, Drug International Ltd. Tongi Industrial Area, Gazipur-1710 Mr. Md. Nasser Shahrear Zahedee Member Chairman, Radiant Pharmaceuticals Limited 22 Dhanmondi, Road-2, Dhaka-1205	5
Dr. Md. Hassan KawsarAssociate Professor, Department of PharmacyGeneral SecretaryState University of Bangladesh, Dhanmondi, Dhaka-120Prof. Dr. Md. Sohel RanaDepartment of PharmacyJoint SecretaryJahangirnagar University, Savar, DhakaProf. Dr. Mohiuddin Ahmed BhuiyanDepartment of Pharmacy, University of Asia PacificJoint SecretaryDhanmondi, Dhaka-1205Prof. Dr. Md. Aslam HossainFaculty of Pharmacy, University of DhakaFinance SecretaryDhaka-1000Mr. Mohammad Shamsul AlamSenior Assistant Manger, International Business, RadianOrganizing SecretaryPharmaceuticals Limited, 22 Dhanmondi, Road-2, DhakMr. Aninda Kumar NathAssistant Professor, Department of PharmacyPublication SecretaryBGC Trust University Bangladesh, ChittagongMr. Md. Mahbubul IslamGeneral Manager, Drug International Ltd.MemberTongi Industrial Area, Gazipur-1710Mr. Md. Nasser Shahrear ZahedeeChairman, Radiant Pharmaceuticals LimitedMemberChairman, Radiant Pharmaceuticals LimitedMember22 Dhanmondi, Road-2, Dhaka-1205	5
General Secretary Prof. Dr. Md. Sohel Rana Joint Secretary Prof. Dr. Mohiuddin Ahmed Bhuiyan Joint Secretary Department of Pharmacy, University of Asia Pacific Dhanmondi, Dhaka-1205 Prof. Dr. Md. Aslam Hossain Finance Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Aninda Kumar Nath Publication Secretary Mr. Md. Mahbubul Islam Member State University of Bangladesh, Dhanmondi, Dhaka-1205 Department of Pharmacy, University of Asia Pacific Dhanmondi, Dhaka-1205 Faculty of Pharmacy, University of Dhaka Dhaka-1000 Senior Assistant Manger, International Business, Radian Organizing Secretary Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhak Assistant Professor, Department of Pharmacy BGC Trust University Bangladesh, Chittagong Mr. Md. Mahbubul Islam General Manager, Drug International Ltd. Tongi Industrial Area, Gazipur-1710 Mr. Md. Nasser Shahrear Zahedee Member Chairman, Radiant Pharmaceuticals Limited 22 Dhanmondi, Road-2, Dhaka-1205	5
Prof. Dr. Md. Sohel Rana Joint Secretary Prof. Dr. Mohiuddin Ahmed Bhuiyan Joint Secretary Department of Pharmacy, University of Asia Pacific Dhanmondi, Dhaka-1205 Prof. Dr. Md. Aslam Hossain Finance Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Aninda Kumar Nath Publication Secretary Mr. Md. Mahbubul Islam Member Department of Pharmacy, University of Asia Pacific Dhaka-1000 Faculty of Pharmacy, University of Dhaka Dhaka-1000 Senior Assistant Manger, International Business, Radian Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhak Assistant Professor, Department of Pharmacy BGC Trust University Bangladesh, Chittagong General Manager, Drug International Ltd. Tongi Industrial Area, Gazipur-1710 Mr. Md. Nasser Shahrear Zahede Member Chairman, Radiant Pharmaceuticals Limited 22 Dhanmondi, Road-2, Dhaka-1205	5
Joint Secretary Prof. Dr. Mohiuddin Ahmed Bhuiyan Joint Secretary Department of Pharmacy, University of Asia Pacific Dhanmondi, Dhaka-1205 Prof. Dr. Md. Aslam Hossain Finance Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Aninda Kumar Nath Publication Secretary Mr. Md. Mahbubul Islam Member Mr. Md. Nasser Shahrear Zahedee Member Jahangirnagar University, Savar, Dhaka Department of Pharmacy, University of Dhaka Paculty of Pharmacy, University of Dhaka Dhaka-1000 Senior Assistant Manger, International Business, Radian Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhak Assistant Professor, Department of Pharmacy BGC Trust University Bangladesh, Chittagong General Manager, Drug International Ltd. Tongi Industrial Area, Gazipur-1710 Chairman, Radiant Pharmaceuticals Limited 22 Dhanmondi, Road-2, Dhaka-1205	
Prof. Dr. Mohiuddin Ahmed Bhuiyan Joint Secretary Prof. Dr. Md. Aslam Hossain Finance Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Aninda Kumar Nath Publication Secretary Mr. Md. Mahbubul Islam Member Department of Pharmacy, University of Asia Pacific Dhanmondi, Dhaka-1205 Faculty of Pharmacy, University of Dhaka Dhaka-1000 Senior Assistant Manger, International Business, Radian Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhak Assistant Professor, Department of Pharmacy BGC Trust University Bangladesh, Chittagong General Manager, Drug International Ltd. Tongi Industrial Area, Gazipur-1710 Mr. Md. Nasser Shahrear Zahedee Member Department of Pharmacy, University of Asia Pacific Dhanmondi, Road-2, Dhaka-1205	
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, Radian Organizing Secretary Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhak 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. Dr. Md. Aslam Hossain Finance Secretary Dhaka-1000 Mr. Mohammad Shamsul Alam Organizing Secretary Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhak Mr. Aninda Kumar Nath Publication Secretary BGC Trust University Bangladesh, Chittagong Mr. Md. Mahbubul Islam Member General Manager, Drug International Ltd. Tongi Industrial Area, Gazipur-1710 Mr. Md. Nasser Shahrear Zahedee Member Dhaka-1000 Senior Assistant Manger, International Business, Radian Pharmaceuticals Limited, 22 Dhanmondi Ltd. Tongi Industrial Area, Gazipur-1710 Chairman, Radiant Pharmaceuticals Limited 22 Dhanmondi, Road-2, Dhaka-1205	
Finance Secretary Mr. Mohammad Shamsul Alam Organizing Secretary Mr. Aninda Kumar Nath Publication Secretary Mr. Md. Mahbubul Islam Member Mr. Md. Nasser Shahrear Zahedee Member Dhaka-1000 Senior Assistant Manger, International Business, Radian Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhak Assistant Professor, Department of Pharmacy BGC Trust University Bangladesh, Chittagong General Manager, Drug International Ltd. Tongi Industrial Area, Gazipur-1710 Chairman, Radiant Pharmaceuticals Limited 22 Dhanmondi, Road-2, Dhaka-1205	
Mr. Mohammad Shamsul Alam Organizing Secretary Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhak Mr. Aninda Kumar Nath Publication Secretary BGC Trust University Bangladesh, Chittagong Mr. Md. Mahbubul Islam General Manager, Drug International Ltd. Tongi Industrial Area, Gazipur-1710 Mr. Md. Nasser Shahrear Zahedee Member Senior Assistant Manger, International Business, Radian Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhaka-1205	
Organizing Secretary Pharmaceuticals Limited, 22 Dhanmondi, Road-2, Dhak Mr. Aninda Kumar Nath Assistant Professor, Department of Pharmacy BGC Trust University Bangladesh, Chittagong Mr. Md. Mahbubul Islam General Manager, Drug International Ltd. Tongi Industrial Area, Gazipur-1710 Mr. Md. Nasser Shahrear Zahedee Member Chairman, Radiant Pharmaceuticals Limited 22 Dhanmondi, Road-2, Dhaka-1205	
Mr. Aninda Kumar Nath Publication Secretary BGC Trust University Bangladesh, Chittagong Mr. Md. Mahbubul Islam General Manager, Drug International Ltd. Tongi Industrial Area, Gazipur-1710 Mr. Md. Nasser Shahrear Zahedee Member Chairman, Radiant Pharmaceuticals Limited 22 Dhanmondi, Road-2, Dhaka-1205	
Publication Secretary Mr. Md. Mahbubul Islam Member General Manager, Drug International Ltd. Tongi Industrial Area, Gazipur-1710 Mr. Md. Nasser Shahrear Zahedee Member Chairman, Radiant Pharmaceuticals Limited 22 Dhanmondi, Road-2, Dhaka-1205	a-1205
Mr. Md. Mahbubul IslamGeneral Manager, Drug International Ltd.MemberTongi Industrial Area, Gazipur-1710Mr. Md. Nasser Shahrear ZahedeeChairman, Radiant Pharmaceuticals LimitedMember22 Dhanmondi, Road-2, Dhaka-1205	
MemberTongi Industrial Area, Gazipur-1710Mr. Md. Nasser Shahrear ZahedeeChairman, Radiant Pharmaceuticals LimitedMember22 Dhanmondi, Road-2, Dhaka-1205	
Mr. Md. Nasser Shahrear ZahedeeChairman, Radiant Pharmaceuticals LimitedMember22 Dhanmondi, Road-2, Dhaka-1205	
Member 22 Dhanmondi, Road-2, Dhaka-1205	
Prof. Md. Saiful Islam Pathan Head, Department of Pharmacy State Heighneit of Pharmacy	_
Member State University of Bangladesh, Dhanmondi, Dhaka-120 Prof. Dr. Md. Selim Reza Faculty of Pharmacy, University of Dhaka	3
Prof. Dr. Md. Selim RezaFaculty of Pharmacy, University of DhakaMemberDhaka-1000	
Mr. Akhil Dutta General Manager, Bengal Remedies Limited	
Member Tongi, Gazipur	
Prof. Dr. Mustafizur Rahman 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 Lin	
Member 395-397, Tejgaon I/A, Dhaka-1208.	nited

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. 21, No. 2	uly 2018
CONTENTS	<u></u>
Evaluation of Antioxidant and Hepatoprotective Effects of <i>Dendrophthoe pentranda</i> Leaves on CCl ₄ Induced Hepatotoxic Rat Md. Anamul Haque, Md. Uzzal Haque and Md. Anwar Ul Islam	71
Neuropharmacological Activities of Methanol Extract of Albizia lebbeck (L.) Benth. Shanta Islam, Md. Shafiullah Shajib, Bidyut Kanti Datta and Mohammad A. Rashid	80
Study of Antinociceptive, Antipyretic and Neuropharmacological Activities of Leaf Extracts of Citrus assamensis Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan and Md. Sohel Rana	87
Assessment of Bacterial Contamination of Dried Herbs and Spices Collected from Street Markets : Dhaka Farjahan Nur, Ummay Kulsum Libra, Prova Rowsan, Md. Abul Kalam Azad and Kohinur Begum	in 96
Preparation and Evaluation of Natural Gum-Based Immediate Release Metformin Hydrochloride Table Sreebash Chandra Bhowmik, Marzia Alam and Md. Saiful Islam Pathan	et 101
Momordica charantia (Bitter melon) in Combination with Metformin Potentiates Hypoglycemic an Hypolipidemic Effects in Alloxan-induced Diabetic Rats Monirul Islam, Md. Saiful Islam, Shaheda Zannah, Golam Sadik and Mamunur Rashid	1 09
<i>In vitro</i> Effect of <i>Withania somnifera, Mucuna pruriens</i> and <i>Pausinystalia johimbe</i> on Hepatic Cytochron P450 in Rat Rajia Sultana and Md. Zakir Sultan	ne 118
Recent Prescribing Patterns of Cardiac Physicians in Metropolitan Dhaka City, Bangladesh Kazi Ruhullah Shahriar and Muhammad Rashedul Islam	123
Hepatoprotective Activity of <i>Hedyotis corymbosa</i> (Linn.) Lam. Extract Against Anti-Tubercular Dru Induced Hepatic Damage in Sprague-Dawley Rats Shah Marzia Mahjabin Lina, Imran Ashab, M Salahuddin Bhuiya and Masum Shahriar	13 1
In vivo CNS Activity of Methanolic Extract of Ficus racemosa Fruits in Experimental Animals Mst. Shirajum Munira, Md. Shariful Islam, Md. Baharuddin and Sabiha Ferdowsy Koly	139
In vitro Study of Different Partitionates of Alstonia scholaris (L.) R.Br. Leaf for Thrombolytic ar Membrane Stabilizing Activities Nisrat Jahan, Sadia Subrin and Mohammad Rashedul Haque	14 5
Phytochemical and Pharmacological Evaluation of Cyperus odoratus Extract	150

Ajijul Hakim Alif, Amir Hossain, Md. Akbar Hossain, Tabitha Mitali Madhu, Salma Akter Sumi and Md.

Mustafizur Rahman

Review paper	
A Short Review on Phytoconstituents from the Genera Albizzia and Erythrina	160
Mohammad Musarraf Hussain	
New drug approvals	173
New indications & dosage form for existing drugs	176
Current pharma news	179
Herbal and alternative medicine news	181

BANGLADESH PHARMACEUTICAL JOURNAL

Vol. 21, No. 1 January 2018

CONTENTS

Analgesic, Antidiarrheal and Antidepressant Activities of <i>Anethum sowa</i> Linn. in Swiss-Albino Mice Model Muhammad Abdullah Al-Mansur, M. Mahboob Ali Siddiqi and Koushik Saha	1
Adulterated Pharmaceutical Product Detection Using Statistical Process Control Mostafa Essam Eissa	7
Solid State Characterization of Dried Liposomes in The Presence of Sucrose and HPMC as Dispersing Matrix Nur Aini Mulyadi, Helmy Yusuf and Noorma Rosita	16
Preparation and Evaluation of Sustained Release Matrix Tablets of Tolterodine Tartrate Using Guggul Resin K. Latha, T. Chinni Kranthi and Naseeb Basha Shaik	24
Hypertension and Related Risk Factors Among Clients on Combined Antiretroviral Therapy in Nigeria Shakirat I. Bello and Winified A. Ojieabu	35
In vitro Development of Resistance to Azithromycin in Pseudomonas aeruginosa Thanmin Jarana Thammi, Md. Masud Rana, Farhanur Rahman, Apu Banik and Md. Anwar Ul Islam	42
Patients' Perception and Satisfaction on Model Pharmacies in Dhaka City, Bangladesh Jesmin Sultana	47
Phenolic Contents, Metal Contaminations, Antioxidant and Antimicrobial Properties of Five Medicinal Dietary Spices Muhammad Riaz, Sadia Naseem, Sehrish Saddiq and Rehana Rashid	55
Thrombolytic Activity of Alkaline Protease Purified from a Mutant Strain Bacillus licheniformis MZK05M9 Md. Asad uz Zaman, Taqiyah Akhtar, A.T. M. Zafrul Azam, Md. Arafat Al Mamun, Md. Mozammel Hoq and Md. Abdul Mazid	63

Notice to Contributors

Bangladesh Pharmaceutical Journal is an international and multidisciplinary research and review 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 to the 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.