



Proceedings of 2ND INTERNATIONAL RESEARCH SYMPOSIUM

on Multidisciplinary Approaches in Indigenous Knowledge Systems

MARCH 01, 2024

*“Harnessing Indigenous Knowledge for
the Sustainable Development of Sri Lanka”*

 **RSIKS 2024**

Gampaha Wickramarachchi University of Indigenous Medicine, Sri Lanka

© Gampaha Wickramarachchi University of Indigenous Medicine

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, without the prior permission in writing of Gampaha Wickramarachchi University of Indigenous Medicine

Proceedings of 2nd international research symposium on multidisciplinary approaches in indigenous knowledge systems (E-Copy)

ISBN 978-624-5975-09-9

Bar Code: 9 786245 975099

GWU Publishing

Gampaha Wickramarachchi University of Indigenous Medicine
Kandy Road, Yakkala, Sri Lanka

Designed and Compiled by: Dr. Nalika R. Dayananda

Department of Indigenous Medical Resources, GWUIM, Sri Lanka



2ND INTERNATIONAL RESEARCH SYMPOSIUM

on Multidisciplinary Approaches in Indigenous Knowledge Systems

PROCEEDINGS

Gampaha Wickramarachchi University of Indigenous Medicine
Yakkala, Sri Lanka

TABLE OF CONTENTS

	Page
Message from the Vice-Chancellor	11
Message from the Guest of Honour	12
Message from the Guest of Honour	13
Message from the Director of the Research Council.....	15
Message from the Symposium Chair	16
Message from the Symposium Co-Chair.....	17
Message from the Symposium Secretary	18
Keynote Speech.....	19
Session 01.....	22
Biochemistry, Molecular Biology, Medicinal Resources, and Ecology.....	22
Antibacterial Effects of Different Solvent Extracts of <i>Eleusine indica</i> and <i>Emilia sonchifolia</i> against Selected Pathogenic Microorganisms	23
Quantitative Analysis of Phytochemicals in <i>Dendrophthoe falcata</i> and <i>Mangifera indica</i> Plant Leaf Extracts.....	24
Comparative Morphological Characterization of Selected Therapeutic Plant Spices of the Family Zingiberaceae.....	25
Molecular Characterization of <i>Brugia malayi</i> which Causes Rural (Lymphatic) Filariasis in Galle District, Sri Lanka	26
Anti-fungal Activity of "Dhathri Rasayanaya" Against <i>Candida albicans</i>	27
Detection of Synthetic Food Colors in Selected Confectioneries Available in Gampaha District, Sri Lanka	28
Synergistic Activity of Antioxidants Intercalated Layered Double Hydroxides as a Potential Active Packaging Material	29
Evaluation of Antioxidant Potential and Nutritional Composition of Leaves, Fruit Peel, Seeds, and Fruit Juice of <i>Atalantia ceylanica</i>	30
Chemical Composition and Antimicrobial Activity of <i>Psidium guajava</i> L. Leaf Essential Oil.....	31
Evaluation of Tyrosinase Inhibitory Activity of <i>Dillenia triquetra</i>	32
Effects of different drying methods and blanching treatments on fungal development and aflatoxin production in <i>Myristica fragrans</i> (Houtt)	33
Evaluation of Synergistic Antioxidant Activities and Sun Protection Factor of <i>Leucas zeylanica</i> and <i>Tagetes erecta</i>	34
Evaluation of the Toxicity and Biocompatibility Activity of <i>Vachellia leucophloea</i> (Roxb.) Maslin, Seigler & Ebin. Aqueous Extract using Zebrafish FET293 Bioassay	35
Development of Green Sauce using <i>Centella asiatica</i> and <i>Basella alba</i> L, and Analysis of Physicochemical and Functional Properties	36
Phytochemical Constituents and Pharmacological Activities of Cinnamon (<i>Cinnamomum Zeylanicum</i>): A Review	37
Preliminary Investigation on Antioxidant Capacity and the Secondary Metabolites of Commercially Available <i>Withania somnifera</i> Root Powder.....	38

Technology Adaptation in Facilitating the Digital Evolution of University Libraries in Sri Lanka: Librarians' Perspectives

W.W.S.T. Warnasooriya^{1*}, M.A.K.S. Munasinghe², I.D.K.L. Fernando³, H.A.N. Lakmali⁴

¹Main Library, Sabaragamuwa University of Sri Lanka

²The Library, University of Kelaniya, Sri Lanka

³Main Library, Sabaragamuwa University of Sri Lanka

⁴Library, Australian College of Business & Technology (ACBT), Sri Lanka

e-mail: thrishala@lib.sab.ac.lk

ABSTRACT

Background: In the evolving landscape of university libraries, technological adaptation plays a pivotal role. But the sustainability of the technology adaptation is more crucial than downloading the technology especially in the Sri Lankan context due to economic crisis, cost-effectiveness, local economic viability and resource constraints, demand for capacity building, societal preferences, attitudes, personal interests, and generation change, infrastructural changes, environmental impact, and evolving needs.

Originality/Value: As key stakeholders, librarians provide context-specific insight in terms of strategies, unique challenges, and innovative solutions pertinent to the Sri Lankan university libraries.

Objective: The study focuses on investigating the strategies, challenges, and solutions related to technological adaptation in Sri Lankan university libraries from the perspective of librarians.

Methodology: For this qualitative research, structured interviews were conducted with randomly selected 10 academics representing university libraries. Thematic analysis was administered to analyze the best practices, inform decision-making processes, optimizing the role of technology in advancing the digital evolution, challenges, and solutions to overcome them.

Findings: Assessment of current infrastructure, stakeholder engagement and collaboration, customized technology solutions, capacity building and training, and cloud-based solutions were suggested as strategies. Insufficient financial resources, infrastructure, technological literacy, and resistance to change were among the top challenges while enabling cost-sharing Initiatives with industry partners for shared investment, utilizing cloud services, public-private partnerships to build the necessary infrastructure, conducting training, workshops, and seminars, providing access to online courses or resources, implementing change management practices to address fears and resistance, communicating the benefits of technology adoption to the stakeholders, initiating pilot projects to foresee the advantages in small scale.

Conclusions: The identified factors in this actual scenario can be used as dimensions for a framework to be included in policy formations which can be resulted through future research.

Keywords: *Digital evolution, Technology adaptation, University Libraries*