Part of **SPRINGER NATURE**

PROCEEDINGS JOURNALS BOOKS

Search

Series: Advances in Health Sciences Research

Proceedings of the 1st Tarumanagara International Conference on Medicine and Health (TICMIH 2021)

HOME

<

The 1st Tarumanagara International Conference on Medicine and Health (TICMIH) 2021 was held by Consortium of Health Science of LLDIKTI Region III collaborated with Untar Institute of Research & Community Engagement (LPPM Untar). The conference brought a topic about "Challenges and Opportunities for Overcoming Infectious Diseases in the 21st Century." The scope of the articles included but was not limited to the following: Medicine, Health, Public Health, Infectious Disease & Tropical Medicine, Community Medicine, Dentistry, Pharmacy, Nursing, Nutrition, Obstetrics, and Clinical Psychology.

Please click here for the conference website.

Atlantis Press

Atlantis Press – now part of Springer Nature – is a professional publisher of scientific, technical & medical (STM) proceedings, journals and books. We offer world-class services, fast turnaround times and personalised communication. The proceedings and journals on our platform are Open Access and generate millions of downloads every month.

ABOUT

▶ NEWS

in

► CONTACT

SEARCH

For more information, please contact us at: contact@atlantis-press.com

- PROCEEDINGS
- JOURNALS
- BOOKS
- ▶ POLICIES
- ▶ MANAGE COOKIES/DO NOT SELL MY INFO

Home Privacy Policy Terms of use

.....

Copyright © 2006-2022 Atlantis Press – now part of Springer Nature

Part of **Springer Nature**

PROCEEDINGS JOURNALS BOOKS

Search

Series: Advances in Health Sciences Research

Proceedings of the 1st Tarumanagara International Conference on Medicine and Health (TICMIH 2021)

PUBLISHING INFORMATION

Bibliographic information:

Title

Proceedings of the 1st Tarumanagara International Conference on Medicine and Health (TICMIH 2021)

Editors

Prof. Anthony McLean, MD, FCICM Soemiwati Holland, MD, FACE Anthony Paulo Sunjaya, MD, SM Bujung Hong, Dr. med Lawrence Ong, MBBS, Ph.D Prof. Herdiman T. Pohan, MD Erni J. Nelwan, MD, PhD Sharifah Shakinah, MD Prof. Saptawati Bardosono, MD, PhD Dr. phil. Edo Sebastian Jaya, M.Psi., Psikolog Velma Herwanto, MD, PhD

Part of series

AHSR

Volume

ISSN 2468-5739

ISBN

978-94-6239-473-5

Indexing

All articles in these proceedings are submitted for indexation in **CPCI**, **CNKI** and **Google Scholar**. Optionally, we also submit to **Compendex** and **Scopus**. Note that in case you need information about the indexation of these proceedings, please check with the organizers of the conference as we cannot reply to messages received from participants.

Free Access

In order to increase the visibility of this conference and of the papers from its participants, this conference has chosen to sponsor the online publication of the conference papers. Therefore, all conference papers can be read and downloaded **for free**; no subscription or other payment is required.

Copyright

The copyright of all articles published in these proceedings remains with the **Authors**, i.e. Authors retain full ownership of their article. Permitted third-party reuse of the open access articles is defined by the applicable **Creative Commons (CC)** end-user license which is accepted by the Authors upon submission of their paper. All articles in these proceedings are published under the **CC BY-NC 4.0** license, meaning that end users can freely **share** an article (i.e. copy and redistribute the material in any medium or format) and **adapt** it (i.e. remix, transform and build upon the material) on the condition that proper **attribution** is given (i.e. appropriate credit, a link to the applicable license and an indication if any changes were made; all in such a way that does not suggest that the licensor endorses the user or the use) and the material is only used for **non-commercial** purposes. For more information, please refer to the Open Access and **User Licenses** section in the Atlantis Press Open Access & Article Sharing policy.

DOIs

Each article that is published in these proceedings is assigned a **Digital Object Identifier** (DOI). DOIs are standardized digital identities which can be used to cite

and link to electronic content. A DOI is guaranteed to never change, so can be used as a persistent identifier to permanently link to an electronic article no matter where it is stored. More information on how to cite and use DOIs can be found here.

Permanent Archiving

Atlantis Press is committed to the **permanent availability** and **preservation** of scholarly research and to ensure **accessibility** to this research by converting and upgrading digital file formats to comply with new technology standards. Besides maintaining its own digital archive, Atlantis Press therefore collaborates with the National Library of the Netherlands which permanently archives all Atlantis Press content in their "**e-Depot**". All proceedings are uploaded to this e-Depot after publication to guarantee permanent archiving of the articles.

Print Copies

In case you wish to have **printed copies** of these proceedings you can order these directly from our partner Curran Associates.

Atlantis Press

Atlantis Press – now part of Springer Nature – is a professional publisher of scientific, technical & medical (STM) proceedings, journals and books. We offer world-class services, fast turnaround times and personalised communication. The proceedings and journals on our platform are Open Access and generate millions of downloads every month.

For more information, please contact us at: contact@atlantis-press.com

▶ PROCEEDINGS	ABOUT
> JOURNALS	NEWS
▶ BOOKS	CONTACT
▶ POLICIES	SEARCH

Home Privacy Policy Terms of use



Copyright © 2006-2022 Atlantis Press – now part of Springer Nature

Part of **Springer Nature**

PROCEEDINGS | JOURNALS | BOOKS

Search

Series: Advances in Health Sciences Research

Proceedings of the 1st Tarumanagara International Conference on Medicine and Health (TICMIH 2021)

ORGANIZERS

Honorary chair

Prof. Dr. Ir. Agustinus Purna Irawan

Universitas Tarumanagara, Indonesia

Steering Committee

Assoc. Prof. Hugeng, MT, Ph.D.

Universitas Tarumanagara, Indonesia

Jap Tji Beng, Ph.D.

Universitas Tarumanagara, Indonesia

Dr. dr. Meilani Kumala, M.S., Sp.GK(K) Universitas Tarumanagara, Indonesia

Organizing Committee/Chairman

Dr. dr. Arlends Chris, M.Si.

Organizing Committee/Treasurer

Mei Ie, S.E., M.M.

Universitas Tarumanagara, Indonesia

Proceedings and scientific session

Dr. Hetty Karunia Tunjungsari

Universitas Tarumanagara, Indonesia

Erick Sidarta, S.Si. M.Biomed. Universitas Tarumanagara, Indonesia

Programs

Dr. Fransisca Iriani Roesmala Dewi Universitas Tarumanagara, Indonesia

Design and publication

AR. Johnsen F., S.Kom. Universitas Tarumanagara, Indonesia

Editorial Board

Prof. Anthony McLean, MD, FCICM

Department of Intensive Care Medicine, Nepean Hospital/ Nepean Clincial School Derby St, Kingswood, Australia.

Soemiwati Holland, MD, FACE

Hackensackmeridian Health – Jersey Shore University Medical Center, New

Jersey, USA

Anthony Paulo Sunjaya, MD, SM

Respiratory Division, The George Institute for Global Health and School of Medical Sciences, UNSW Medicine

Bujung Hong, Dr. med

Department of Neurosurgery Hannover Medical School, Germany

Lawrence Ong, MBBS, Ph.D

Department of Imunology, Westmead Hospital, NSW, Australia

Prof. Herdiman T. Pohan, MD

Cipto Mangunkusumo General Hospital, Faculty of Medicine University of Indonesia

Erni J. Nelwan, MD, PhD

Cipto Mangunkusumo General Hospital, Faculty of Medicine University of Indonesia

Sharifah Shakinah, MD

Cipto Mangunkusumo General Hospital, Faculty of Medicine University of Indonesia

Prof. Saptawati Bardosono, MD, PhD

Cipto Mangunkusumo General Hospital, Faculty of Medicine University of Indonesia

3/5

Faculty of Psychology, University of Indonesia

Velma Herwanto, MD, PhD

Faculty of Medicine, Universitas Tarumanagara, Indonesia

Atlantis Press

Atlantis Press – now part of Springer Nature – is a professional publisher of scientific, technical & medical (STM) proceedings, journals and books. We offer world-class services, fast turnaround times and personalised communication. The proceedings and journals on our platform are Open Access and generate millions of downloads every month.

For more information, please contact us at: contact@atlantis-press.com

PROCEEDINGS		ABOUT
JOURNALS		NEWS
BOOKS		CONTACT
POLICIES		SEARCH
	JOURNALS BOOKS	JOURNALS BOOKS

Home Privacy Policy Terms of use

) in

Copyright © 2006-2022 Atlantis Press – now part of Springer Nature

f

14/01/2022, 14:41 Proceedings of the 1st Tarumanagara International Conference on Medicine and Health (TICMIH 2021) - Organizers | Atlantis Pr...

Part of **Springer Nature**

PROCEEDINGS | JOURNALS | BOOKS

Search

Series: Advances in Health Sciences Research

Proceedings of the 1st Tarumanagara International Conference on Medicine and Health (TICMIH 2021)

PROCEEDINGS OF THE 1ST TARUMANAGARA INTERNATIONAL CONFERENCE ON MEDICINE AND HEALTH (TICMIH 2021)

<

Phytochemical Screening and Total Antioxidant Capacity of Methanolic-Extract of Kembang Bokor Roots *(Hydrangea Macrophylla)*

Authors

Elizabeth¹, Eny Yulianti², David Limanan², Frans Ferdinal²

- ¹ Faculty of Medicine, Tarumanagara University, Jakarta, Indonesia
- ² Staff of Departement of Biochemistry and Molecular Biology, Faculty of Medicine, TarumanagaraUniversity, Jakarta, Indonesia
- * Corresponding author: Email: elibebek88@gmail.com

Corresponding Author Elizabeth

Available Online 1 December 2021.

DOI

https://doi.org/10.2991/ahsr.k.211130.011 How to use a DOI?

Keywords

Reactive oxvgen species: Hvdrangea Macrophvlla: phvtochemicals: DPPH

Abstract

Reactive oxygen species can cause damage to biological systems such as mutations, inhibit protein synthesis and even damage proteins. Excess free radicals will produce oxidative stress. Antioxidants are substances that play a role in preventing and repairing damage caused by oxidative stress.

Antioxidants can be obtained from food and plants. One of the plants is the root of the kembang bokor (Hydrangea Macrophylla) which is a medicinal plant. The purpose of this study was to determine the phytochemical content and total antioxidant capacity on methanol extract of the kembang bokor roots. This is invitro experimental research against methanol extract of kembang bokor roots through maceration process. The in-vitro tests are gualitative phytochemical tests (Harborne) and total antioxidant capacity tests with the DPPH (Blois) method. In the qualitative test, it was found that the root extract of kembang bokor contained alkaloids, betasianin, cardioglycosides, terpenoids, steroids, glycosides, flavonoids, quinones, phenolics, saponins, tannins and coumarin. Kembang bokor roots extract has antioxidant capacity (IC₅₀ = 261.45 μ g / mL) that classified as very weak antioxidant. In this study we found that the antioxidant capacity which contain in kembang bokor root extract not as much as vitamin C. Although the level of antioxidant capacity of kembang bokor root extract is lower than vitamin C, it has advantages over vitamin C, kembang bokor root can treat kidney stones while high dose of vitamin C can cause kidney stones. This result proves that kembang bokor roots extract has secondary metabolites and the potential as an antioxidant.

Copyright

© 2021 The Authors. Published by Atlantis Press International B.V.

Open Access

This is an open access article under the CC BY-NC license.

Download article (PDF)

>

Volume Title

Proceedings of the 1st Tarumanagara International Conference on Medicine and Health (TICMIH 2021)

Series

Advances in Health Sciences Research

Publication Date

1 December 2021

ISBN

978-94-6239-473-5

ISSN 2468-5739

DOI

https://doi.org/10.2991/ahsr.k.211130.011 How to use a DOI?

Copyright

© 2021 The Authors. Published by Atlantis Press International B.V.

Open Access

This is an open access article under the CC BY-NC license.

Cite this article

	ris	
	enw	
	bib	
TY - CONF AU - Elizabeth AU - Eny Yulianti AU - David Limanan AU - Frans Ferdinal PY - 2021		

```
Phytochemical Screening and Total Antioxidant Capacity of Methanolic-Extract of Kembang Bokor Roots (Hydrangea Macrophyll...
14/01/2022, 14:48
      \boldsymbol{\nu}
             ~~~~ ~~ ~~
      TI - Phytochemical Screening and Total Antioxidant Capacity of Methanolic
       Extract of Kembang Bokor Roots (Hydrangea Macrophylla)
      BT - Proceedings of the 1st Tarumanagara International Conference on
      Medicine and Health (TICMIH 2021)
          - Atlantis Press
      PB
          - 57
      SP
          - 62
      EΡ
      SN
          - 2468-5739
          - https://doi.org/10.2991/ahsr.k.211130.011
      UR
          - https://doi.org/10.2991/ahsr.k.211130.011
      DO
      ID
          - 2021
       ER
           _
    🔂 download .ris COPY TO CLIPBOARD
```

Atlantis Press

Atlantis Press – now part of Springer Nature – is a professional publisher of scientific, technical & medical (STM) proceedings, journals and books. We offer world-class services, fast turnaround times and personalised communication. The proceedings and journals on our platform are Open Access and generate millions of downloads every month.

For more information, please contact us at: contact@atlantis-press.com

PROCEEDINGS
JOURNALS
BOOKS
POLICIES
ABOUT
ABOUT
NEWS
CONTACT
SEARCH

Home Privacy Policy Terms of use

f y in

Copyright © 2006-2022 Atlantis Press – now part of Springer Nature

14/01/2022, 14:48 Phytochemical Screening and Total Antioxidant Capacity of Methanolic-Extract of Kembang Bokor Roots (Hydrangea Macrophyll...