

## SURAT TUGAS

Nomor: 946-R/UNTAR/PENELITIAN/II/2022

Rektor Universitas Tarumanagara, dengan ini menugaskan kepada saudara:

1. **FRANS FERDINAL, dr., MS., Dr., Prof.**
2. **NATASYA THERESIA SIMATUPANG**
3. **DAVID LIMANAN, dr., M.Biomed.**

Untuk melaksanakan kegiatan penelitian/publikasi ilmiah dengan data sebagai berikut:

Judul : Methanolic Extracts of Rose Flowers (*Rosa chinensis* Jacq.):  
Phytochemical Evaluation and Total Antioxidant Capacity  
Nama Media : Proceedings of the 1st Tarumanagara International Conference on  
Medicine and Health (TICMIH 2021)  
Penerbit : Atlantis Press  
Volume/Tahun : 2021  
URL Repository : <https://www.atlantis-press.com/proceedings/ticmih-21>

Demikian Surat Tugas ini dibuat, untuk dilaksanakan dengan sebaik-baiknya dan melaporkan hasil penugasan tersebut kepada Rektor Universitas Tarumanagara

27 Februari 2022

**Rektor**



**Prof. Dr. Ir. AGUSTINUS PURNA IRAWAN**

Print Security : d1809ff6a575e812aa13c146db92bf8b

Disclaimer: Surat ini dicetak dari Sistem Layanan Informasi Terpadu Universitas Tarumanagara dan dinyatakan sah secara hukum.

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.

For more information, please contact us at: [contact@atlantis-press.com](mailto:contact@atlantis-press.com)

- ▶ PROCEEDINGS
- ▶ JOURNALS
- ▶ BOOKS
- ▶ POLICIES
- ▶ MANAGE COOKIES/DO NOT SELL MY INFO
- ▶ ABOUT
- ▶ NEWS
- ▶ CONTACT
- ▶ 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)

---

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

41

**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](mailto:contact@atlantis-press.com)

▶ PROCEEDINGS

▶ JOURNALS

▶ BOOKS

▶ POLICIES

▶ ABOUT

▶ NEWS

▶ CONTACT

▶ 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.**

Universitas Tarumanagara, Indonesia



## **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 Clinical 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 Immunology, 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

**Dr. phil. Edo Sebastian Java. M.Psi.. Psikolog**

## 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](mailto:contact@atlantis-press.com)

- ▶ PROCEEDINGS
- ▶ JOURNALS
- ▶ BOOKS
- ▶ POLICIES
- ▶ ABOUT
- ▶ NEWS
- ▶ CONTACT
- ▶ 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)

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

<

>

### Methanolic Extracts of Rose Flowers (*Rosa chinensis* Jacq.): Phytochemical Evaluation and Total Antioxidant Capacity

#### Authors

Natasya Theresia Simatupang<sup>1</sup>, David Limanan<sup>2</sup>, Eny Yulianti<sup>2</sup>, Frans Ferdinal<sup>2</sup>

<sup>1</sup> Faculty of Medicine, Tarumanagara University, Jakarta, Indonesia

<sup>2</sup> Staff of Department of Biochemistry and Molecular Biology, Faculty of Medicine, Tarumanagara University, Jakarta Indonesia

\* Corresponding author. Email: [natasyathrs@gmail.com](mailto:natasyathrs@gmail.com)

#### Corresponding Author

Natasya Theresia Simatupang

Available Online 1 December 2021.

#### DOI

<https://doi.org/10.2991/ahsr.k.211130.006> [How to use a DOI?](#)

#### Keywords

Oxidative Stress; Reactive Oxygen Species; *Rosa chinensis* Jacq; Total Antioxidant Capacity

## Abstract

Oxidative stress is an imbalance between oxidants and antioxidants that can lead to impaired signaling and redox control. Free radicals in large quantities will stimulate the production of IL-6 and TNF- $\alpha$ , which act as proinflammatory cytokines and trigger the release of polymorphonuclear cells (PMN); this makes antioxidants are needed to inhibit the oxidation process and free radicals prevention. One of the natural antioxidants that is easy to find and become a symbol of beauty and love is the rose (*Rosa chinensis* Jacq.). The purpose of this study was to know secondary metabolic compounds and total antioxidant capacity on methanol extracts of rose flower. This research is an experimental research using methanol solvent with maceration method that includes phytochemical screening test consisting of 12 secondary metabolic compounds by Harborne and total antioxidant capacity test by DPPH method (*1,1-Diphenyl-2-Picrylhydrazyl*) by Blois. In the qualitative test, rose flower extracts contain cardioglycosides, alkaloids, flavonoids, anthocyanins and betacyans, coumarins, glycosides, phenolics, quinones, tannins, and terpenoids. The test results of the total antioxidant capacity showed that the IC<sub>50</sub> of rose flower was 69,42  $\mu\text{g/mL}$ . These results indicate that rose flower extract has potential as a strong antioxidant to prevent many diseases such as cancer.

## 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.211130.006> [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 - Natasya Theresia Simatupang  
AU - David Limanan  
AU - Eny Yulianti  
AU - Frans Ferdinal  
PY - 2021  
DA - 2021/12/01  
TI - Methanolic Extracts of Rose Flowers (*Rosa chinensis* Jacq.):  
Phytochemical Evaluation and Total Antioxidant Capacity  
BT - Proceedings of the 1st Tarumanagara International Conference on  
Medicine and Health (TICMIH 2021)

PB - Atlantis Press

SP - 29

EP - 32

SN - 2468-5739

UR - <https://doi.org/10.2991/ahsr.k.211130.006>DO - <https://doi.org/10.2991/ahsr.k.211130.006>

ID - Simatupang2021

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](mailto: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



