



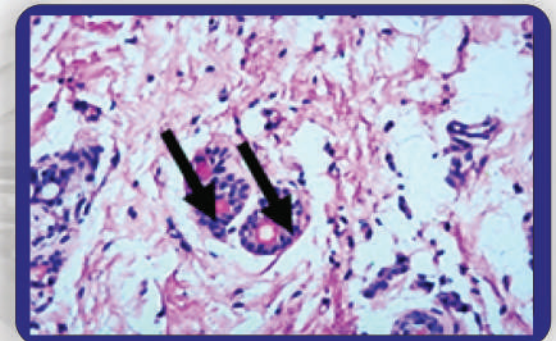
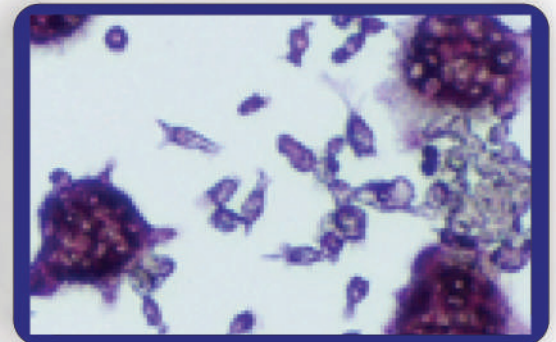
Faculty of Pharmacy

ISSN : 2088-0197  
e-ISSN : 2355-8989



# Indonesian Journal of Cancer Chemoprevention

Vol.9, No.2, June 2018



The Official Journal of  
Indonesian Society for Cancer Chemoprevention

## INDONESIAN JOURNAL OF CANCER CHEMOPREVENTION

### Editor in Chief

Ferry Sandra (Faculty of Dentistry, Universitas Trisakti)

### Board of Editors

Adam Hermawan (Faculty of Pharmacy, Universitas Gadjah Mada)  
Evanmarie Hey-Hawkins (Institute of Inorganic Chemistry, Universität Leipzig)  
Hiroshi Itoh (Nara Institute of Science and Technology, Japan)  
Ines Atmosukarto (Australian national University)  
Muhammad Da'1 (Faculty of Pharmacy, Universitas Muhammadiyah Surakarta)  
Muthi Ikawati (Faculty of Pharmacy, Universitas Gadjah Mada)  
Nunuk Aries Nurulita (Faculty of Pharmacy, Universitas Muhammadiyah Purwokerto)  
Riris Istighfari Jenie (Faculty of Pharmacy, Universitas Gadjah Mada)  
Yashwant Pathak (College of Pharmacy, University of South Florida)  
Sri Handayani (Indonesian Institutes of Science)  
Yasumasa Bessho (Nara Institute of Science and Technology, Japan)

### Board of Reviewers

Arry Yannuar (Faculty of Pharmacy, Universitas Indonesia)  
Adek zamrud Adnan (Faculty of Pharmacy, Universitas Andalas)  
Edy Meiyanto (Faculty of Pharmacy, Universitas Gadjah Mada)  
Elfahmi (College of Pharmacy, Institut Teknologi Bandung)  
Indwiani Astuti (Faculty of Medicine, Universitas Gadjah Mada)  
Jun-ya Kato (Nara Institute of Science and Technology, Japan)  
Masashi Kawaichi (Nara Institute of Science and Technology, Japan)  
Mitsunori Kirihata (Osaka Prefecture University, Japan)  
Nico P. E. Vermeulen (Vrije Universiteit Amsterdam)  
Rolf F. Barth (The Ohio State University)  
Solachuddin Jauhari Arief (International Islamic University Malaysia)  
Sukardiman (Faculty of Pharmacy, Universitas Airlangga)

### Officers

Anindyajati (College of Pharmacy, Institut Teknologi Bandung)  
Dian Anita (Cancer Chemoprevention Research Center, Pharmacy, UGM)  
Gagas Pradani Nur Ilmawati (Cancer Chemoprevention Research Center, Pharmacy, UGM)  
Hilyatul Fadliyah (Cancer Chemoprevention Research Center, Pharmacy, UGM)  
Marsya Yonna Nurrachma (Cancer Chemoprevention Research Center, Pharmacy, UGM)  
Nurrani Mustika Dewi (Faculty of Pharmacy, Universitas Padjajaran)  
Raisatun Nisa Sugiyanto (Cancer Chemoprevention Research Center, Pharmacy, UGM)  
Ririn Widarti (Cancer Chemoprevention Research Center, Pharmacy, UGM)  
Rohmad Yudi Utomo (Cancer Chemoprevention Research Center, Pharmacy, UGM)  
Yonika Arum Larasati (Cancer Chemoprevention Research Center, Pharmacy, UGM)

### Editorial Office

Faculty of Pharmacy, Universitas Gadjah Mada  
Sekip Utara, Yogyakarta, Indonesia 55281  
Telp. (+62-274) 6492662, Fax. (+62-274) 543120  
Email : ijcc@chemoprev.org, ijcc.office@gmail.com

### Published by

Indonesian Society for Cancer Chemoprevention (ISCC)

#### Cover Picture:

“RANKL and TNF- $\alpha$ -induced JNK/SAPK Osteoclastogenic...” (see Sandra, et al., p.63-67)

“Estrogenic Activity of Ethanolic Extract of Papaya Peels...” (see Novitasari, et al., p.86-91)

**INDONESIAN JOURNAL OF CANCER CHEMOPREVENTION  
ARTICLES**

- RANKL and TNF- $\alpha$ -induced JNK/SAPK Osteoclastogenic Signaling Pathway was Inhibited by Caffeic Acid in RAW-D Cells 63-67  
(Ferry Sandra, Junita Briskila, Ketherin)
- Anti-metastatic Profiles of *Boesenbergia pandurata* towards MCF-7/HER2 Cells 68-77  
(Hilyatul Fadliyah, Nindya Budiana Putri, Ziana Walidah, Ika Putri Nurhayati, Muthi' Ikawati, Edy Meiyanto)
- The Cytoprotective and Cell Recovery Properties of Apple Extracts on H2O2 induced-NIH3T3 Cells : An Anti Aging Candidate 78-85  
(Nunuk Aries Nurulita, Anjar Mahardian Kusuma, Darsini, Weny Delvia, Veby Tri Yulianti)
- Estrogenic Activity of Ethanolic Extract of Papaya Peels (*Carica Papaya* L.) on Uterine Weight And Mammae Gland Proliferation on Ovariectomy Rats 86-91  
(Dhania Novitasari, Devyanto Hadi Triutomo, Fitriana Hayyu Arifah, Anselma Ivanawati, Zahrotul Ulum, Retno Murwanti)
- A Review: The Emerging Nutraceutical Potential of Pumpkin Seeds 92-101  
(Beni Lestari, Edy Meiyanto)
- Fingerroot (*Boesenbergia pandurata*) : A Prospective Anticancer Therapy 102-109  
(Marsya Yonna Nurrachma, Hilyatul Fadliyah, Edy Meiyanto)

