

# JOURNAL OF NUTRITIONAL SCIENCE AND VITAMINOLOGY

## EDITORIAL BOARD

*Chairman:* Masao SATO

*Co-chairmen:* Kentaro KOGURE (Vitaminology)  
Kimitaka TAKITANI (Vitaminology)  
Yoshio FUJIOKA (Nutritional Science/Food Science)  
Saiko IKEDA (Nutritional Science/Food Science)  
Kazuo INOUE (Nutritional Science/Food Science)  
Kei NAKAJIMA (Nutritional Science/Food Science)

## *Editors*

Pauline CHAN	Yukari EGASHIRA	Shigeki FURUYA
Tsuyoshi GOTO	Sung Nim HAN	Hardinsyah HARDINSYAH
Mami HIRAOKA	Kaoruko IIDA	Nao INOUE
Takahiro ISHIKAWA	Ken-Ichi KOBAYASHI	Ryuji KOIKE
Karunee KWANBUNJAN	Kiwon LIM	Yukihiko MOMIYAMA
Yuji NAITO	Kiyotaka NAKAGAWA	Sadako NAKAMURA
Rieko NAKATA	Kazuto NOSAKA	Tohru SAKAI
Hideo SATSU	Hiroko SEGAWA	Masahito SHIMIZU
Tee E SIONG	Hirohito SONE	Kei SONOYAMA
Akira TAKAHASHI	Shigeo TAKENAKA	Kiyoshi TANAKA
Hironori YAMAMOTO	Masao YAMASAKI	Yoko YAMASHITA
Michiko YASUDA	Tohru YOSHIMURA	Nobuhiro ZAIMA

## *Members of International Advisory Board of JNSV*

Mahenderan APPUKUTTY (Malaysia)	Hardinsyah HARDINSYAH (Indonesia)
Ching-Jang HUANG (Taiwan)	Hisanori KATO (Japan)
Jeongseon KIM (Korea)	Teruo MIYAZAWA (Japan)
Mohd Ismail NOOR (Malaysia)	Hemalatha RAJKUMAR (India)
Kraisid TONTISIRIN (Thailand)	Yuexin YANG (China)

The Journal of Nutritional Science and Vitaminology, which succeeds the Journal of Vitaminology published by the Vitamin Society of Japan from 1954 to 1972, has been a joint issue of the Vitamin Society of Japan and the Japan Society of Nutrition and Food Science since 1973, covering the scientific areas of both societies. The Journal is published by the Center for Academic Publications Japan for the above societies, beginning with Vol.19 (1973), bimonthly with six numbers forming one volume per year.

Manuscripts and correspondence should be addressed to:

Editorial Board

Journal of Nutritional Science and Vitaminology

c/o Center for Academic Publications Japan

2-4-16 Yayoi, Bunkyo-ku,

Tokyo 113-0032, Japan

Telephone, +81-3-3817-5821; Facsimile, +81-3-3817-5830

E-mail [jnsv\\_ed@capj.or.jp](mailto:jnsv_ed@capj.or.jp)

In preparing manuscripts, authors should refer to INSTRUCTIONS TO AUTHORS in the current issue.

Copyright ©2024 by the Vitamin Society of Japan and the Japan Society of Nutrition and Food Science. All rights reserved; however, the abstract appearing at the beginning of each article may be reproduced in any form, or translated, without specific permission provided that original citation is included. Printed in Japan.