

Philippine Journal of Science

Volume 150 No. 5, October 2021

Philippine Journal of Science (Philipp J Sci) is a scientific journal published by the Department of Science and Technology (DOST) and managed by the Science and Technology Information Institute (STII).

Editorial Board

Editor-in-Chief

Caesar A. Saloma, Ph.D.

National Institute of Physics, College of Science
University of the Philippines Diliman, Quezon City, Philippines

Dolores A. Ramirez, Ph.D.

Institute of Plant Breeding, College of Agriculture
University of the Philippines Los Baños
College, Laguna, Philippines

Fabian M. Dayrit, Ph.D.

School of Science and Engineering
Ateneo de Manila University
Loyola Heights, Quezon City, Philippines

Queena N. Lee-Chua, Ph.D.

Department of Mathematics
Ateneo de Manila University
Loyola Heights, Quezon City, Philippines

Rafe M. Brown, Ph.D.

Department of Ecology and Evolutionary Biology
1345 Jayhawk Blvd., Dyche Hall
University of Kansas
Lawrence, KS 66045 USA

William G. Padolina, Ph.D.

National Academy of Science and Technology
DOST Complex, Bicutan, Taguig City

Rosalia C.M. Simmen, Ph.D.

Department of Physiology and Biophysics, and
The Winthrop P. Rockefeller Cancer Institute
University of Arkansas for Medical Sciences
Biomed Bldg. 1, Rm. 212D, 4301 W. Markham St.
Little Rock, AR 72205 USA

Ronaldo P. Ferraris, Ph.D.

Department of Pharmacology and Physiology
New Jersey Medical School
185 S. Orange Avenue
Newark, NJ 07103-2714 USA

Josefino C. Comiso, Ph.D.

Laboratory for Hydrospheric Processes, Code 971
National Aeronautics and Space Administration
Goddard Space Flight Center
Greenbelt, MD 20771 USA

Sohichi Hirose, Ph.D.

Department of Civil and Environmental Eng'g.
School of Environment and Society
Tokyo Institute of Technology
Ookayama, Meguro-ku, Tokyo, Japan

Victor B. Amoroso, Ph.D.

Center for Biodiversity Research and Extension in
Mindanao, and
Biology Department
College of Arts and Sciences
Central Mindanao University
Musuan, Bukidnon, Philippines