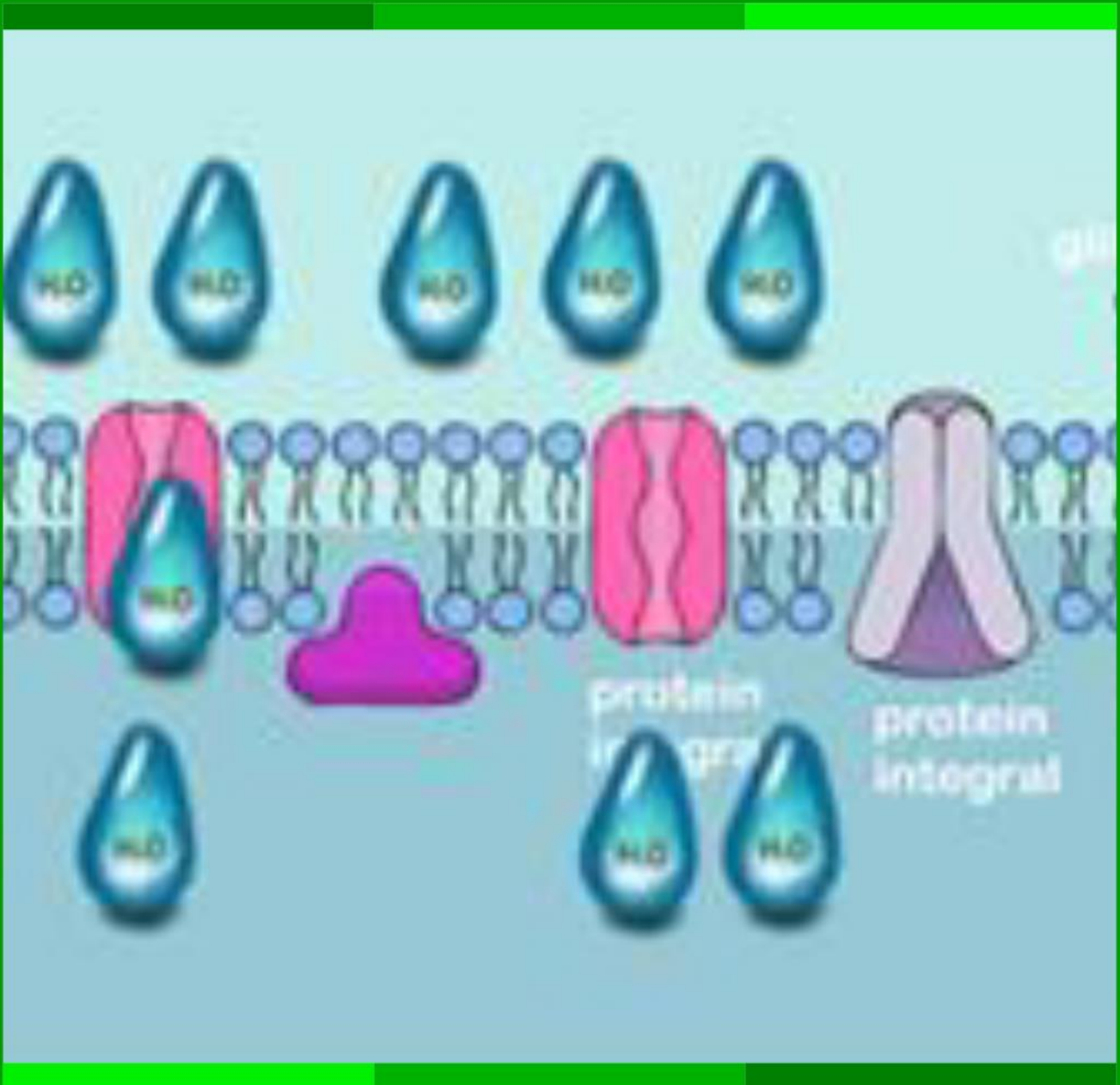




# BIOEDUKASI

Jurnal Biologi dan Pembelajarannya



Published by  
Study Program of Biology Education  
Faculty of Teacher Training and Education  
Universitas Jember

**BIOEDUKASI**  
**Jurnal Biologi dan Pembelajarannya**

A year published three times in February, June and October, contains scientific papers on the biology of both educational and non-educational research, and critical analytical studies of biology and learning.

**EDITOR IN CHIEF:**

Assist. Prof. Bevo Wahono, Ph.D. (University of Jember, Indonesia)

**EDITORIAL BOARD:**

Assoc. Prof. Erlia Narulita, Ph.D. (University of Jember, Indonesia)

Prof. Chun Yen Chang, Ph.D. (National Taiwan Normal University, Taiwan)

Prof. Hyunju Lee, Ph.D. (Ewha Womans University, Korea)

Assist. Prof. Anita Schuchardt, Ph.D. (University of Minnesota, United State of America)

Assoc. Prof. Dr. Ir. Imam Mudakir, M.Si. (University of Jember, Indonesia)

Assoc. Prof. M. Abd. Hadi Bunyamin, Ph.D. (Universiti Teknologi Malaysia, Malaysia)

Assoc. Prof. Nguyen Van Hien, Ph.D. (Hanoi National University of Education, Vietnam)

Ping-Han Cheng, Ph.D. (National Taiwan Normal University, Taiwan)

José A. M. Bravo, Ph.D. (Universidad Pedagógica y Tecnológica de Colombia, Colombia)

Drs. Wachju Subchan, MS., Ph.D. (University of Jember, Indonesia)

Ika Lia Novenda, S.Pd., M.Pd. (University of Jember, Indonesia)

Vendi Eko Susilo, S.Pd., M.Si. (University of Jember, Indonesia)

Nurul Insani Shullia, S.Si, M.Si. (University of Jember, Indonesia)

**LAYOUTING EDITOR:**

Ervan Prasetyo, S.Pd., MOS., MCE. (University of Jember, Indonesia)

Prasetyo Wibowo, S.Pd. (University of Jember, Indonesia)

**EDITOR ADDRESS:**

Study Program of Biology Education

Faculty of Teacher Training and Education

University of Jember

Jl. Kalimantan No. 37 Kampus Bumi Tegal Boto

Jember 68121 East Java, Indonesia

Telp. + 62 0331 334 988

E-mail: [bioedukasi@unej.ac.id](mailto:bioedukasi@unej.ac.id)

# BIOEDUKASI

Jurnal Biologi dan Pembelajarannya

BOARD GAME DEVELOPMENT ON CELL MEMBRANE TRANSPORT MATERIAL <b>Qonita Majid, Murni Ramli, Maridi</b>	1-3
DEVELOPMENT OF DERMATOGLYPHIC PRACTICUM GUIDE BASED ON GUIDED INQUIRY <b>Jodion Siburian, Gusti Ayu Muthia, Evita Anggereini</b>	4-11
EFFECTIVENESS OF BOKASHI CHICKEN STOOL ON HYBRID CORN PRODUCTIVITY ( <i>Zea mays</i> L) <b>Eni Winarsih, Siti Roudlotul Hikamah, Diah Sudiarti</b>	12-18
THE EFFECT OF CO-REARING WITH FEMALES ON THE QUANTITY AND QUALITY OF MOUSE ( <i>Mus musculus</i> ) SPERMATOZOA <b>Titiek Fianti, Evi Hanizar, Dwi Nur Rikhma Sari</b>	19-25
THE EFFECTIVENESS OF THE USE OF DIGITAL TEXTBOOKS ON THE EVALUATION OF BIOLOGY LEARNING COURSE ON PORTFOLIO ASSESSMENT MATERIALS <b>Hasruddin, Aryeni, Widya Arwita</b>	26-31
LACTATIONAL EXPOSURE OF METHOXYCHLOR IMPAIRS SPERM QUALITY IN BALB/C MICE <b>Hajar Syifa Fiarani</b>	33-37
ANALYSIS OF CITIZEN SCIENCE-BASED FLOWERING PLANT DIVERSITY WORKSHEET DEVELOPMENT TO IMPROVE STUDENTS' CRITICAL THINKING ABILITY <b>Nissa Rachmawati, Topik Hidayat, Bambang Supriatno</b>	38-43
DEVELOPMENT OF E-LEARNING-BASED POCKET BOOKS TO IMPROVE STUDENTS' COGNITIVE ABILITY <b>Nurul Hidayah, Dwi Swastanti Ridianingsih</b>	44-47