

Journal of
**AGRICULTURAL SCIENCE
AND TECHNOLOGY**

No: 6/2016

NONG LAM UNIVERSITY - HCMC

Publication permit:
212/GP-BTTTT 26/4/2016

EDITORIAL BOARD:

Editor-in-chief:

NGUYEN HAY

EDITORIAL BOARD MEMBER:

- * NGUYEN HUY BICH
- * VO THAI DAN
- * DOAN THI HUE DUNG
- * LE DINH DON
- * DUONG DUY DONG
- * PHAM VAN HIEN
- * NGUYEN PHU HOA
- * HUYNH THANH HUNG
- * PHAN TAI HUAN
- * NGUYEN THI MAI
- * PHAM NGOC NAM
- * NGUYEN VAN NGAI
- * NGUYEN VAN TAN
- * PHAM VAN TINH
- * NGUYEN TAT TOAN
- * LE THI DIEU TRANG
- * NGUYEN NHU TRI
- * LE QUOC TUAN
- * TRUONG VINH

Secretariat:

Nguyen Phu Hoa – Chief
Nguyen Tri Q Hung - Vice Chief
To Tan Long – Member
Le Thi Thanh Tam – Member
Dinh Thi My Loan - Member

Editorial office:

Nong Lam University, HCMC
Linh Trung Ward, Thu Duc District,
Ho Chi Minh City,
Tel: +84 8.38963340 - Fax: +84 8.38960713
Email: tckhnl@hcmuaf.edu.vn

CONTENT

Page

- 1 Status methane emissions from beef cattle at some farms in northern Vietnam

*Tran Hiep, Nguyen Ngoc Bang,
Duong Nguyen Khang,
Nguyen Huu Cuong, Chu Manh Thang*

- 12 A preliminary study: protective effect of *Lonicera japonica* Thunb. crude extract against liver toxicity induced by CCL₄ in mice

*Le Thi Ngoc Nga, Duong Thi My Linh,
Ngo Ba Duy, Tran Thanh Tien,
Vo Thi Tra An*

- 20 A review paper of shrimp farming and environmental issues in Can Gio, Ho Chi Minh city.

Nguyen Van Trai

- 25 Investigation on pulping of cocoa pod husks

Nguyen Duy Linh, Tang Thi Kim Hong

- 30 Carbon monitoring of mangrove in Dat Mui protection forest, Ngoc Hien district, Ca Mau province, Viet Nam

Vien Ngoc Nam, Truong Van Vinh

- 41 Study on the counts of coliforms and *Escherichia coli* in tra catfish (*Pangasius hypophthalmus*) filets during isothermal and non-isothermal temperature conditions, simulating downstream steps of cold supply chains

Mai Thi Tuyet Nga, Huynh Thi Ai Van

- 50 Effects of anaerobic fermentation in vacuum conditions on bioactive compound content of GABA tea

*Nguyen Quoc Sinh, Nguyen Van Toan,
Do Thi Bich Thuy, Le Thanh Long,
Ho Sy Vuong, Nguyen Thi Diem Huong,
Nguyen Cao Cuong, Vo Van Quoc Bao*

- 55 Optimal conditions for the production of exopolysaccharide by *Lactobacillus fermentum* TC16
Tran Thi Ai Luyen, Do Thi Bich Thuy
- 63 Rheological properties of lyotropic liquid crystalline nanoparticles (Cubosomes)
Diep Thanh Tung
- 70 Fingerling counter applied image processing technology
Tran Thi Kim Nga, Dao Duy Vinh, Nguyen Dang Khoa, Nguyen Van Duc, Vo Van Huy Hoang, Nguyen Le Tuong, Nguyen Tan Phuc
- 76 Heavy metal and oxidative stress in living organisms
Le Quoc Tuan
- 84 Measures to enhance the efficiency of pesticide waste management in some new rural communes in Binh Duong province, Viet Nam
Nguyen Huynh Anh Tuyet, Le Trong Dieu Hien, Pham Huynh Trang, Dinh Thi Huong
- 90 Investigating the livelihoods and household's perception about the role of mangroves in Vien An commune, Ngoc Hien district, Ca Mau province
Tran Duc Luan, Mai Dinh Quy
- 100 Analysis of factors affecting the adoption of VietGAHP by pig farmers in Dong Nai province
Mai Dinh Quy, Pham Thu Phuong, Dang Thanh Ha