



# Science Asia

A peer-reviewed journal jointly published by  
THE SCIENCE SOCIETY OF THAILAND  
AND THE NATIONAL RESEARCH COUNCIL OF THAILAND

line access :

<http://www.scienceasia.org>



Volume 40 Number 5

October 2014

ISSN 1513-1874 CODEN: SCIASFZ

40(5): 317-378 (2014)

ScienceAsia



- Genetic variation in microsatellite markers in melon fly parasitoids
- Immobilizing a thermophilic lipase from *Acinetobacter baylyi* for biodiesel
- RNAi methods to down-regulate Nck1 adaptor protein in Jurkat T cells
- Blow-up in semilinear pseudoparabolic equations



## Contents

### Research articles

- Length-weight relationship and trophic level of hard-tail scad *Megalaspis cordyla* 317  
*Simon Kumar Das, Moumita De, Mazlan Abd. Ghaffar*
- Acute toxicity of refined wild apricot oil in rats 323  
*Xingjun Miao, Zhong Zhao, Hongjiao Li, Ming Li, Hailan Zhu*
- Immobilization of a thermophilic solvent-stable lipase from *Acinetobacter baylyi* and its potential for use in biodiesel production 327  
*Pakorn Winayanuwattikun, Kingkaew Piriyananon, Phenwarat Wongsathonkittikun, Jittima Charoenpanich*
- Treatment of landfill leachate by immobilized *Ganoderma australe* and crude enzyme 335  
*Wan Abdul Razak Wan Razarinah, Mahmood Noor Zalina, Noorlidah Abdullah*
- RNAi down-regulation of Nck1 adaptor protein in Jurkat T cells 340  
*Pussadee Paensuwan, Jatuporn Ngoenkam, Donruedee Sanguanserm Sri, Boonruang Khamsri, Ichaya Yiemwattana, Apirath Wangteeraprasert, Sutapip Pongcharoen*
- Microsatellite marker variation in populations of the melon fly parasitoid, *Psytalia fletcheri* 348  
*Somjit Homchan, David S. Haymer, Sangvorn Kitthawee*
- Lead determination in canned food by square-wave adsorptive cathodic stripping voltammetry 355  
*Puchong Wararattananurak, Pipat Chooto, Panit Sherdshoopongse, Chatjira Chuaynukool, Chalernpol Innuphat*
- A novel design of IIR multiple notch filter based on an all-pass filter by using a pole-reposition technique 362  
*Amnart Thamrongmas, Chalie Charoenlarnpparut, Panintorn Prempree*
- Blow-up in non-autonomous semilinear pseudoparabolic equations 371  
*Sujin Khomrutai, Nataphan Kitisin*
- Variable step 2-point block backward differentiation formula for index-1 differential algebraic equations 375  
*Naghme Abasi, Mohamed Bin Suleiman, Zarina Bibi Ibrahim, Hamisu Musa, Faranak Rabiei*

### EDITORIAL P

*ScienceAsia* is published with the Royal Patronage of the Thai Government that provide novel information in science or mathematics. The journal provide a new service to authors such as reviews and editing for merit. The journal is published in another journal, and the journal must conform to the journal's requirements.

### FORMAT OF

The manuscript should be prepared according to the following format.

### Front matter

The front matter should include the title, authors, and their affiliations. The title should be known and concise. The authors' names should be contributed to the journal. The title should be briefly summarized. The title should not contain any information that is not contained in the article.

### Introduction

The introduction should give a brief overview of the article. The introduction should be given in the area of the article.

### Materials and Methods

The materials and methods should be described in detail. The materials and methods should be described in detail. The materials and methods should be described in detail.

### Results and Discussion

The results and discussion should be presented in a clear and concise manner. The results and discussion should be presented in a clear and concise manner. The results and discussion should be presented in a clear and concise manner.

### Conclusion

### Acknowledgments

The authors would like to thank the support of the Thai Government.

### References

The references should be listed in alphabetical order. The references should be listed in alphabetical order. The references should be listed in alphabetical order. The references should be listed in alphabetical order. The references should be listed in alphabetical order.

Only the authors of the articles are responsible for the content of the articles.