

## C O N T E N T S

- 299 Issues of Ruminant Integration with Oil Palm Plantation  
*M Zamri-Saad and K Azhar*
- 306 A Chloroplast DNA (cpDNA) Extraction Protocol for Diversity Analysis of Oil Palm (*Elaeis* spp.)  
*Ho, Carl Miew; Ooi, Leslie C L; Tan, S G; Ho, C L and Singh, R*
- 315 A Model for Predicting Flower Development in *Elaeis guineensis* Jacq.  
*Norashikin Sarpan; Sau-Yee Kok; Sook-Keat Chai; Anwar Fitrianto; Azimi Nuraziyani; Ishak Zamzuri; Meilina Ong-Abdullah and Siew-Eng Ooi*
- 326 Evaluation on the Cultural Characteristics and Antagonistic Activities of *Cladobotryum semicirculare* against *Ganoderma boninense* *in vitro*  
*Nurul Fadhilah Marzuki; Yit Kheng Goh; Hun Jiat Tung; You Keng Goh and Kah Joo Goh*
- 339 An Optimisation Study for Catalytic Hydrolysis of Oil Palm Shell Using Response Surface Methodology  
*Sabzoi, Nizamuddin; Yong, E K; Jayakumar, N S; Sahu, J N; Ganesan, P; Mubarak, N M and Mazari, Shaukat A*
- 352 Production Technology of Biodiesel from Palm Fatty Acid Distillate Using Mild Acid Catalyst  
*Nur Sulihatimarsyila Abd Wafti; Harrison Lau Lik Nang and Choo, Y M*
- 360 A Comparative Evaluation of Phenolic Hydroxyl Content of Oil Palm  
*Mahendra Varman and Shiro Saka*
- 366 Optimisation on Synthesis of Acrylated Epoxidised Palm Olein Using Response Surface Methodology  
*Kosheela Devi, P P; Hazimah, A H; Tuan Noor Maznee, T I; Yeong, S K; Hoong, S S; Kushairi, A and Choo, Y M*
- 377 A Rapid and Cost Effective Ultrasonic Solvent Extraction Method for Determination of  $\lambda$ -Cyhalothrin and Cypermethrin Residues in Soil  
*Halimah Muhamad; Badrul Hisyam Zainudin; Zulhilmi, Z A M and Nor Kartini Abu Bakar*
- 387 Enhancing the Separation and Purification Efficiency of Palm Oil Carotenes Using Supercritical Fluid Chromatography  
*Ng Mei Han and Choo, Y M*
- 393 An Alternative Lubricant: The Potential of Double Fractionated Palm Olein as a Lubricant for Enhanced Tribological Behaviour Using a Pin-on-Disk Tribo-tester  
*N Nuraliza; S Syahrullail and D M Razak*
- 403 Laboratory Assessment of  $^{14}\text{C}$ -Phenyl Methylsulfonyl-methyl Degradation in an Oil Palm Plantation Soil  
*Ismail, B S; Ooi, K E and Tayeb, M A*
- 417 The Diet of Yellow-vented Bulbul (*Pycnonotus goiavier*) in Oil Palm Agro-ecosystems  
*Bettycopa Amit; Andrew Alek Tuen; Khalid Haron; Mohd Haniff Harun and Norman Kamarudin*
- 425 Biodegradability of Palm-based Lubricants  
*Siti Afida, I; Razmah, G; Yeong, S K and Hazimah, A H*
- 433 Efficiency of Nutrients Removal from Palm Oil Mill Effluent Treatment Systems  
*Soh Kheang Loh; Wai Loan Liew; Mohd Azraai Kassim and Khalida Muda*