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### Senarai Jurnal Berwasit 2010

1. Abd-Gani, S.S., Basri, M., Abdul-Rahman, M.B., Kassim, A., Abdul-Rahman, R.N.Z., Salleh, A.B. and Ismail, Z. (2010). Characterization and effects on skin hydration of engkabang-based emulsions. *Biosciences, Biotechnology and Biochemistry*. 74(6): 1-6. (IF: 1.326)
2. Abdul-Rahman, M.B., Mohammad-Latif, M.A., Basri, M., Salleh, A.B. and Abdul-Rahman, R.N.Z. (2010). Molecular dynamic simulation of oleyl oleate swollen micelles system. *Molecular Simulation*. 36(5): 403-407. (IF: 1.028)
3. Abdul-Rahman, R.N.Z., Ahmad-Kamarudin, N., Yunus, J., Salleh, A.B. and Basri, M. (2010). Expression of an organic solvent stable lipase from *Staphylococcus epidermidis* AT2. *International Journal Molecular Sciences*. 11(9): 3195-3208. (IF: 1.387)
4. Abdul-Rahman, R.N.Z., Lee, P.G., Chee, F.W., Basri, M. and Salleh, A.B. (2010). Molecular investigation of a gene encoding organic solvent-tolerant alkaline protease from *Pseudomonas aeruginosa* strain K. *Journal of Basic Microbiology*. 50(2): 143-149. (IF: 1.319)
5. Adam, Z., Khamis, S.W., Ismail, A. and Hamid. M. (2010). Inhibitory properties of *Ficus deltoidea* on  $\alpha$ -glucosidase activity. *Research Journal of Medicinal Plant*. 4(2): 61-75.
6. Adnani, A., Basri, M., Abdul-Malek, E., Salleh, A.B., Abdul-Rahman, M.B., Chaibakshah, N. and Abdul-Rahman, R.N.Z. (2010). Optimization of lipase-catalyzed synthesis of xylitol ester by Taguchi robust design method. *Industrial Crops and Products*. 31(2): 350-356. (IF: 2.103)
7. Afinah, S., Yazid, A.M., Shobirin, M.H.A. and Shuhaimi, M. (2010). Review Article Phytase: application in food industry. *International Food Research Journal*. 17: 13-21. (IF: 0.400)
8. Alitheen, N.B., Abdul-Manaf, A., Yeap, S.K., Shuhaimi, M., Nordin, L. and Mashitoh, A.R. (2010). Immunomodulatory effects of damnanthal isolated from roots of *Morinda elliptica*. *Pharmaceutical Biology*. 48(4): 446-452. (IF: 0.672)
9. Alitheen, N.B., Mashitoh, A.R., Yeap, S.K., Shuhaimi M., Abdul-Manaf, A. and Nordin, L. (2010). Cytotoxic effect of damnanthal, nordamnanthal, zerumbone and betulinic acid isolated from Malaysian plant sources. *International Food Research Journal*. 17(1): 711-719. (IF: 0.400)
10. Anang, D.M., Rusul, G., Foo, H.L. and Bhat, R. (2010). Inhibitory effects of lactic acid and lauricidin on spoilage organisms of chicken breast during storage at chilled temperature. *International Journal of Food Microbiology*. 144(1): 152-159. (IF: 3.011)
11. Anuradha, K., Foo, H.L., Mariana, N.S., Loh, T.C., Yusoff, K., Hassan, M.D., Sasan, H. and Raha, A.R. (2010). Live recombinant *Lactococcus lactis* vaccine expressing aerolysin genes D1 and D4 for protection against *Aeromonas hydrophila* in tilapia (*Oreochromis niloticus*). *Journal of Applied Microbiology*. 109(5): 1632-1642. (IF: 2.098)
12. Ariff, A.B., Ooi, T.C., Halimi, M.S. and Shamsuddin, Z.H. (2010). Repeated fed-batch cultivation of nitrogen-fixing bacterium, *Bacillus-sphaericus* UPMB10, using glycerol as the carbon source. *Pertanika Journal Science and Technology*. 18(2): 365-375.
13. Ariffin, H., Nishida, H., Hassan, M.A. and Shirai, Y. (2010). Chemical recycling of polyhydroxyalkanoates as a method towards sustainable development. *Biotechnology Journal*. 5(5): 484-492. (IF: 2.100)
14. Ariffin, H., Nishida, H., Shirai, Y. and Hassan, M.A. (2010). Highly selective transformation of poly[(R)-3-hydroxybutyric acid] into trans-crotonic acid by catalytic thermal degradation. *Polymer Degradation and Stability*. 95(8): 1375-138. (IF: 2.154)
15. Ariffin, N., Cheong, L.Z., Koh, S.P., Long, K., Tan, C.P., Yusoff, M.S.A., Idris, N., Lo, S.K. and Lai, O.M. (2010). Relationship between textural properties and sensory qualities of cookies made from medium-and long-chain triacylglycerol (MLCT)-enriched margarines. *Journal of the Science of Food and Agriculture*. 90(6): 943-948. (IF: 1.386)

16. Awg-Adeni, D.S., Abd-Aziz, S., Bujang, K. and Hassan, M.A. (2010). Bioconversion of sago residue into value added products. *African Journal of Biotechnology*. 9(14): 2016-2021. (IF: 0.565)
17. Azaman, S.N.A., Ramakrishnan, N.R., Joo, S.T., Raha, A.R., Abdullah, M.P. and Ariff, A.B. (2010). Optimization of an induction strategy for improving interferon- $\alpha 2\beta$  production in the periplasm of *Escherichia coli* using response surface methodology. *Biotechnology and Applied Biochemistry*. 56: 141–150. (IF: 1.239)
18. Azaman, S.N.A., Ramanan, R.N., Joo, S.T., Raha, A.R., Abdullah, M.P. and Ariff, A.B. (2010). Screening for the optimal induction parameters for periplasmic producing interferon- $\alpha 2\beta$  in *Escherichia coli*. *African Journal of Biotechnology*. 9(38): 6345-6354. (IF: 0.565)
19. Azma, M., Rosfarizan, M., Raha, A.R. and Ariff, A.B. (2010). Improved protocol for the preparation of *Tetraselmis suecica* axenic culture and adaptation to heterotrophic cultivation. *The Open Biotechnology Journal*. 4: 36-46.
20. Baharuddian, A.S., Lim, H.S., Md-Yusof, M.Z., Abdul-Rahman, N.A., Umi-Kalsom, M.S., Hassan, M.A., Wakisaka, M., Sakai, K. and Shirai, Y. (2010). Effects of palm oil mill effluent (POME) anaerobic sludge from 500 m<sup>3</sup> of closed anaerobic methane digested tank on pressed-shredded empty fruit bunch (EFB) composting process. *African Journal of Biotechnology*. 9(16): 2427-2436. (IF: 0.565)
21. Baharuddin, A.S., Abd-Razak, M.N., Lim, S.H., Ahmad, M.N., Abd-Aziz, S., Abdul-Rahman, N.A., Umi-Kalsom, M.S., Hassan, M.A., Sakai, K. and Shirai, Y. (2010). Isolation and characterization of thermophilic cellulase-producing bacteria from empty fruit bunches-palm oil mill effluent compost. *American Journal of Applied Sciences*. 7(1): 56-62.
22. Baharum, S.N., Abdul-Rahman, R.N.Z., Basri, M. and Salleh, A.B. (2010). Chaperone-dependent gene expression of organic solvent-tolerant lipase from *Pseudomonas aeruginosa* strain S5. *Process Biochemistry*. 45(3): 346-354. (IF: 2.444)
23. Bakar, N.K.A., Abd-Aziz, S., Hassan, M.A. and Ghazali, F.M. (2010). Isolation and selection of appropriate cellulolytic mixed microbial cultures for cellulases production from oil palm empty fruit bunch. *Biotechnology*. 9(1): 73-78.
24. Basar, B., Mohd-Shamzi, M., Rosfarizan, M., Puspaningsih, N.N.T. and Ariff, A.B. (2010). Enhanced production of thermophilic xylanase by recombinant *Escherichia coli* DH5 $\alpha$  through optimization of medium and dissolved oxygen level. *International Journal of Agriculture and Biology*. 12: 321-328.
25. Baset Mia, M.A., Shamsuddin, Z.H. and Maziah, M. (2010). Use of plant growth promoting bacteria in banana: a new insight for sustainable banana production. *International Journal of Agriculture and Biology*. 12(3): 459-467.
26. Baset Mia, M.A., Shamsuddin, Z.H., Wahab, Z. and Maziah, M. (2010). Rhizobacteria as bioenhancer and biofertilizer for growth and yield of banana (*Musa spp.* Cv. 'Berangan'). *Scientia Horticulturae*. 126(2): 80-87. (IF: 1.197)
27. Baset Mia, M.A., Shamsuddin, Z.H., Wahab, Z. and Maziah, M. (2010). Effect of plant growth promoting rhizobacterial (PGPR) inoculation on growth and nitrogen incorporation of tissue-cultured *Musa* plantlets under nitrogen-free hydroponics condition. *Australian Journal of Crop Science*. 4(2): 85-90. (IF: 0.667)
28. Basri, M.F., Yacob, S., Hassan, M.A., Shirai, Y., Wakisaka, M., Zakaria, M.R. and Phang, L.Y. (2010). Improved biogas production from palm oil mill effluent by a scaled-down anaerobic treatment process. *World Journal of Microbiology and Biotechnology*. 26(3): 505-514. (IF: 1.082)
29. Busu, Z., Sulaiman, A., Hassan, M.A., Shirai, Y., Abd-Aziz, S., Yacob, S. and Wakisaka, W. (2010). Improved anaerobic treatment of palm oil mill effluent in a semi-commercial closed digester tank with sludge recycling and appropriate feeding strategy. *Pertanika Journal of Tropical Agricultural Science*. 33(1): 27-37.
30. Cao, J.N., Shafee, N., Vickery, L., Kaluz, S., Ru, N. and Stanbridge, E.J. (2010). Mitogen-activated protein/extracellular signal-regulated kinase kinase 1act/tubulin interaction is an important determinant of mitotic stability in cultured ht1080 human fibrosarcoma cells. *Tumor and Stem Cell Biology*. 70(14): 6004-6014. (IF: 7.670)

31. Chaibakhsh, N., Abdul-Rahman, M.B., Basri, M., Salleh, A.B., Abd-Aziz, S. (2010). Lipase-catalyzed dimethyl adipate synthesis: response surface modeling and kinetics. *Biotechnology Journal*. 5(8): 848-855. (IF: 2.100)
32. Chaibakhsh, N., Abdul-Rahman, M.B., Vahabzadeh, F., Abd-Aziz, S., Basri, M., Salleh, A.B. (2010). Optimization of operational conditions for adipate ester synthesis in a stirred tank reactor. *Biotechnology and Bioprocess Engineering*. 15(5): 846-853. (IF: 1.412)
33. Cheau, Y.T., Abdul-Rahman, R.N.Z., Abdul-Kadir, H. and Tayyab, S. (2010). Calcium-induced stabilization of  $\alpha$ -amylase against guanidine hydrochloride denaturation. *African Journal of Biotechnology*. 9(46): 7934-7941. (IF: 0.565)
34. Chee, F.W., Salleh, A.B., Basri, M. and Abdul-Rahman, R.N.Z. (2010). Organic-solvent stability of elastase strain K overexpressed in an *Escherichia-Pseudomonas* expression system. *Biotechnology and Applied Biology*. 57(1): 1-7. (IF: 1.288)
35. Cheong, L.Z., Arifin, N., Tan, C.P., Long, K., Yusoff, M.S.A. and Lai, O.M. (2010). Physicochemical, textural and viscoelastic properties of palm diacylglycerol bakery shortening during storage. *Journal of the Science of Food and Agriculture*. 90(13): 2310-2317. (IF: 1.386)
36. Chong, F.C., Tan, W.S., Biak, D.R.A., Ling, T.C. and Tey, B.T. (2010). A preparative hydrophobic interaction chromatography for purification of recombinant nucleocapsid protein of Nipah virus from *Escherichia coli* homogenate. *Separation and Purification Technology*. 71(1): 97-101. (IF: 2.879)
37. Chong, F.C., Tan, W.S., Biak, D.R.A., Ling, T.C. and Tey, B.T. (2010). Direct recovery of recombinant nucleocapsid protein of Nipah virus from unclarified *Escherichia coli* homogenate using hydrophobic interaction expanded bed adsorption chromatography. *Journal of Chromatography A*. 1217(8): 1293-1297. (IF: 4.101)
38. Chong, F.C., Tan, W.S., Biak, D.R.A., Ling, T.C. and Tey, B.T. (2010). Modulation of protease activity to enhance the recovery of recombinant nucleocapsid protein of Nipah virus. *Process Biochemistry*. 45(1): 133-137. (IF: 2.444)
39. Damanik, R.I., Maziah, M., Ismail, M.R., Ahmad, S. and Mohd-Zain, A. (2010). Responses of the antioxidative enzymes in Malaysian rice (*Oryza sativa L.*) cultivars under submerge condition. *Acta Physiologiae Plantarum*. 32(4): 739-747.
40. Darvari, F. M., Sariah, M., Puad, M.P. and Maziah, M. (2010). Micropropagation of some Malaysian banana and plantain (*Musa sp.*) using male flowers. *Africal Journal of Biotechnology*. 9(16): 2360-2366. (IF: 0.565)
41. David, D., Gansau, J.A. and Abdullah, J.O. (2010). Effect of NAA and BAP on protocorm proliferation of Borneo scented orchid, *Vanda helvola*. *Asia-Pacific Journal of Molecular Biology and Biotechnology*. 18(1): 219-222.
42. Edward, F.B., Yap, C.K., and Tan, S.G., (2010). Interspecific variation of heavy metal concentrations in the different tissues of tropical intertidal gastropods from Malaysia. *Toxicological and Environmental Chemistry*. 92(6): 1121-1134.
43. Emadi, M., Jahanshiri, F., Azizi-Jalalian, F., Kaveh, K., Hair-Bejo, M., Ideris, A., Assumaidae, A.A. and Alimon, R.A. (2010). Immunostimulatory effects of arginine in broiler chickens challenged with vaccine strain of infectious. *Journal of Animal and Veterinary Advances*. 9(3): 594-600. (IF: 0.176)
44. Emadi, M., Jahanshiri, F., Kaveh, K., Hair-Bejo, M., Ideris, A. and Alimon, R.A. (2010). Tryptophan stimulates immune response in broiler chickens challenged with infectious bursal disease. *Journal of Animal and Veterinary Advances*. 9(3): 610-616. (IF: 0.176)
45. Emadi, M., Kaveh, K., Hair-Bejo, M., Ideris, A., Jahanshiri, F., Ivan, M. and Alimon, R.A. (2010). Growth performance and blood parameters as influenced by different levels of dietary arginine in broiler chickens. *Journal of Animal and Veterinary Advances*. 9(1): 70-74. (IF: 0.176)
46. Emadi, M., Kaveh, K., Jahanshiri, F., Hair-Bejo, M., Ideris, A. and Alimon, R.A. (2010). Dietary tryptophan effects on growth performance and blood parameters in broiler chickens. *Journal of Animal and Veterinary Advances*. 9(4): 700-704. (IF: 0.176)

47. Farliahati, M.R., Ramanan, R.N., Rosfarizan, M., Puspaningsih, N.N.T. and Ariff, A.B. (2010). Enhanced production of xylanase by recombinant *Escherichia coli* DH5 $\alpha$  through optimization of medium composition using response surface methodology. *Annals Microbiology*. 60: 279-285. (IF: 0.358)
48. Hafid, H.S., Abdul-Rahman, N.A., Omar, F.N., Phang, L.Y., Abd-Aziz, S. and Hassan, M.A. (2010). A comparative study of organic acids production from kitchen wastes and simulated kitchen waste. *Australian Journal of Basic and Applied Sciences*. 4(4): 639-645.
49. Harith, Z.T., Yusoff, F.M., Shariff, M. and Ariff, A.B. (2010). Effect of different separation techniques and storage temperatures on the viability of marine microalgae, *Chaetoceros calcitrans*, during storage. *Biotechnology*. 9(3): 387-391.
50. Hashim, D.M., Che-Man, Y.B., Norakasha, R., Shuhaimi, M., Salmah, Y. and Syahariza, Z.A. (2010). Potential use of Fourier transform infrared spectroscopy for differentiation of bovine and porcine. *Food Chemistry*. 118(3): 856-860. (IF: 3.146)
51. Ibrahim, S.B., Abdul-Rahman, N.A., Rosfarizan, M. and Raha, A.R. (2010). Effects of agitation speed, temperature, carbon and nitrogen sources on the growth of recombinant *Lactococcus lactis* NZ9000 carrying domain 1 of aerolysin gene. *African Journal of Biotechnology*. 9(33): 5392-5398. (IF: 0.565)
52. Ismail, I., Hassan, M.A., Abdul-Rahman, N.A. and Chen, S.S. (2010). Thermophilic biohydrogen production from palm oil mill effluent using suspended mixed cultures. *Journal of Biomass and Bioenergy*. 34(1): 42-47. (IF: 3.326)
53. Jahromi, M.F., Liang, J.B., Rosfarizan, M., Goh, Y.M., Shokryazdan, P. and Ho, Y.W. (2010). Effects of *Aspergillus niger* (K8) on nutritive value of rice straw. *African Journal of Biotechnology*. 9(42): 7043-7047. (IF: 0.565)
54. Jawan, R., Gansau, J.A. and Abdullah, J.O. (2010). *In vitro* culture of Borneo's endemic orchid, *Vanda dearei*. *Asia-Pacific Journal of Molecular Biology and Biotechnology*. 18(1): 201-205.
55. Joo, E.B., Iatip, J., Abdullah, M.P., Ismail, A. and Hamid, M. (2010). *Scoparia dulcis* (SDF7) endowed with glucose uptake properties on L6 myotubes compared insulin. *Journal of Ethnopharmacology*. 129(1): 23-33. (IF: 2.322)
56. Karjiban, R.A., Basyaruddin, M., Rahman, A., Salleh, A.B., Basri, M., Abdul-Rahman, R.N.Z. and Leow, T.C. (2010). On the importance of the small domain in the thermostability of thermoalkalophilic lipase from l1 and t1: Insights from molecular dynamics simulation. *Protein and Peptide Letters*. 17(6): 699-707. (IF: 1.281)
57. Khoddamzadeh, A.A., Sinniah, U.R., Kadir, M.A., Kadzimin, S.B., Maziah, M. and Sreeramanan, S. (2010). Detection of somaclonal variation by random amplified polymorphic DNA analysis during micropropagation of *Phalaenopsis bellina* (Rchb.f.) Christenson. *African Journal of Biotechnology*. 9(40): 6632-6639. (IF: 0.565)
58. Khor, H.E., Rusea, G., Khor, P.W. and Janna, O.A. (2010). A survey on orchids in selected trails of Gunung Nuang forest reserve. *Pertanika Journal of Tropical Agricultural Science*. 33(1): 91-95.
59. Koh, S.P., Tan, C.P., Lai, O.M., Ariffin, N., Yusoff, M.S.A. and Long, K. (2010). Enzymatic synthesis of medium-and-long-chain-triacylglycerols (MLCT): Optimization of process parameters using response surface methodology. *Food Bioprocess Technology*. 3: 288-299. (IF: 2.238)
60. Lan, G.Q., Abdullah, N., Jalaludin, S. and Ho, Y.W. (2010). *In vitro* and *in vivo* enzymatic dephosphorylation of phytate in maize-soya bean meal diets for broiler chickens by phytase of *Mitsuokella jalaludinii*. *Animal Feed Science and Technology*. 158(1): 155-164. (IF: 1.866)
61. Latif, M.A., Omar, M.Y., Tan, S.G., Siraj, S.S. and Ismail, A.R. (2010). Interpopulation crosses, inheritance study, and genetic variability in the brown planthopper complex, *Nilaparvata lugens* (Homoptera: Delphacidae). *Biochemical Genetics*. 48(3-4): 266-286. (IF: 0.878)
62. Latif, M.A., Omar, M.Y., Tan, S.G., Siraj, S.S. and Ismail, A.R. (2010). Biochemical studies on malathion resistance, inheritance and association of carboxylesterase activity in brown planthopper, *Nilaparvata lugens* complex in Peninsular Malaysia. *Insect Science*.

63. Latip, S.N.H., Muhamad, R., Manjeri, G. and Tan, S.G. (2010). Development of microsatellite markers for *Helopeltis theivora* waterhouse (Hemiptera: Miridae). *African Journal of Biotechnology*. 9(28): 4478-4481. (IF: 0.565)
64. Latip, S.N.H., Muhamad, R., Manjeri, G. and Tan, S.G. (2010). Genetic variation of selected *Camellia sinensis* (cultivated tea) varieties in Malaysia based on random amplified microsatellite (RAMs) markers. *Pertanika Journal of Tropical Agriculture Science*. 33(2): 259-267.
65. Lau, G.L., Sieo, C.C., Tan, W.S., Hair-Bejo, M., Jalila, A. and Ho, Y.W. (2010). Efficacy of a bacteriophage isolated from chickens as a therapeutic agent for colibacillosis in broiler. *Poultry Science*. 89(12): 2589-2596. (IF: 1.673)
66. Lau, G.L., Sieo, C.C., Tan, W.S., Hair-Bejo, M., Jalila, A. and Ho, Y.W. (2010). Efficacy of a bacteriophage isolated from chickens as a therapeutic agent for colibacillosis in broiler. *Poultry Science*. 89(12): 2589-2596. (IF: 1.673)
67. Lim, S.H.E., Jahanshiri, F., Jalilian, F.A., Rahim, R.A., Sekawi, Z. and Yusoff, K. (2010). Glycosylation is not necessary for recognition of the fusion glycoprotein domain of the Human respiratory syncytial virus by a polyclonal antibody. *Acta Virologica*. 54(3): 181-187. (IF: 0.746)
68. Loh, T.C., Thanh, N.T., Foo, H.L., Bejo, M.H. and Kasim, A. (2010). Feeding of different levels of metabolite combinations produced by *Lactobacillus plantarum* on growth performance, faecal lactic acid bacteria and *Enterobacteriaceae* count, volatile fatty acids and villi height in broilers. *Animal Science Journal*. 81(2): 205-214. (IF: 0.649)
69. Loh, T.C., Wang, S. and Foo, H.L. (2010). Effects of dietary protein and inulin on growth and nitrogen balance in growing pigs. *Journal of Animal Applied Research*. 38: 55-59. (IF: 0.193)
70. Low, K.O., Mahadi, M.N., Raha, A.R., Rabu, A., Abu-Bakar, F.D., Abdul-Murad, A.M. and Md-Illias, R. (2010). Enhanced secretory production of hemolysin-mediated cyclodextrin glucanotransferase in *Escherichia coli* by random mutagenesis of the ABC transporter system. *Journal of Biotechnology*. 150(4): 453-459. (IF: 2.881)
71. Manicam, C., Janna, O.A., Mohd-Tohit, E.R., Seman, Z., Sieo, C.C. and Hamid, M. (2010). *In vitro* anticoagulant activities of *Melastoma malabathricum* Linn. aqueous leaf extract: a preliminary novel finding. *Journal of Medicinal Plants Research*. 4(14): 1464-1472. (IF: 0.590)
72. Masomian, M., Abdul-Rahman, R.N.Z., Salleh, A.B. and Basri, M. (2010). A unique thermostable and organic solvent tolerant lipase from newly isolated *Aneurinibacillus thermoerophilus* strain HZ: physical factor studies. *World Journal of Microbiology and Biotechnology*. 26(9): 1693-1701. (IF: 1.082)
73. Maziah, M., Abdul-Rahman, Z., Mohd-Saud, H., Shamsudin, Z., Subramaniam, S. (2010). Influence of rhizobacterial and agrobacterial inoculation on selected physiological and biochemical changes of banana cultivar, Berangan (AAA) plantlets, *Journal of Agricultural Science*. 2(1): 115-116. (IF: 1.658)
74. Meimandipour, A., Hair-Bejo, M., Shuhaimi, M., Azhar, K., Soleimani, A.F., Rasti, B. and Yazid, A.M. (2010). Gastrointestinal tract morphological alteration by unpleasant physical treatment and modulating role of *Lactobacillus* in broilers. *British Poultry Science*. 51(1): 52-59. (IF: 1.064)
75. Meimandipour, A., Shuhaimi, M., Soleimani, A.F., Azhar, K., Hair-Bejo, M., Kabeir, B.M. and Javanmard, A. (2010). Selected microbial groups and short-chain fatty acids profile in a simulated chicken cecum. *Poultry Science*. 89: 470-476. (IF: 1.673)
76. Memari, H.R., Ramanan, R.N. and Ariff, A.B. (2010). Comparison of expression systems for the production of human interferon- $\alpha$ 2 $\beta$ . *Central European Journal of Biology*. 5(4): 446-455. (IF: 0.915)
-

77. Mohd-Hairul, A.R., Chan, W.S., Parameswari, N., Gwendoline, C.L.E. and Janna, O.A. (2010). Putative phenylacetaldehyde synthase transcript of *Vanda Mimi Palmer*: Sequence and expression analysis. *International Journal of Botany*. 6(4): 424-432.
78. Mohd-Hairul, A.R., Chan, W.S., Parameswari, N., Gwendoline, E.C.L. and Janna, O.A. (2010). Terpenoid, benzenoid, and phenylpropanoid compounds in the floral scent of *Vanda Mimi Palmer*. *Journal of Plant Biology*. 53(5): 358-366. (IF: 0.851)
79. Mohd-Shariff, F., Abdul-Rahman, R.N.Z., Adam, L.T.C., Mohamad-Ali, M.S., Basri, M. and Salleh, A.B. (2010). Crystallization and preliminary X-Ray crystallographic analysis of highly thermostable L2 lipase from the newly isolated *Bacillus* sp. L2. *Acta Crystallographica*. 66(6): 715-717. (IF: 0.551)
80. Mohd-Yusoff, M.Z., Abdul-Rahman, N.A., Abd-Aziz, S., Chong, M.L., Hassan, M.A. and Shirai, Y. (2010). The effect of hydraulic retention time and volatile fatty acids on biohydrogen production from palm oil mill effluent under non-sterile condition. *Australian Journal of Basic and Applied Sciences*. 4(4): 577-587.
81. Molouki, A., Hsu, Y.T., Jahanshiri, F., Roslib, R. and Yusoff, K. (2010). Newcastle disease virus infection promotes bax redistribution to mitochondria and cell death in HeLa cells. *Intervirology*. 53(2): 84-87. (IF: 1.106)
82. Monjezi, R., Tey, B.T., Sieo, C.C. and Tan, W.S. (2010). Purification of bacteriophage M13 by anion exchange chromatography. *Journal of Chromatography B*. 878(21): 1855-1859. (IF: 2.777)
83. Morteza, S.M., Foo, H.L., Leow, T.C., Raha, A.R. and Loh, T.C. (2010). Novel bacteriocinogenic *Lactobacillus plantarum* strains and their differentiation by sequence analysis of 16S rDNA, 16S-23S and 23S-5S intergenic spacer regions and randomly amplified polymorphic DNA analysis. *Food Technology and Biotechnology*. 48(4): 476-483. (IF: 0.976)
84. Mumtaz, T., Abd-Aziz, S., Phang, L.Y., Wan-Yunus, W.M.Z., Shirai, Y. and Hassan, M.A. (2010). Synthesis, characterization and structural properties of intracellular copolyester poly (3-hydroxybutyrate-co-3-hydroxyvalerate) produced by *Comamonas* sp. EB 172 from renewable resource. *International Journal of Polymer Analysis and Characterization*. 15(6): 329-340. (IF: 0.775)
85. Mumtaz, T., Yahaya, N.A., Abd-Aziz, S., Abdul Rahman, N., Phang, L.Y., Shirai, Y. and Hassan, M.A. (2010). Turning waste to wealth-biodegradable plastics polyhydroxyalkanoates from palm oil mill effluent - a Malaysian perspective. *Journal of Cleaner Production*. 18(14): 1393-1402. (IF: 1.867)
86. Ng, C.Y., Norihan, M.S. and Faridah, Q.Z. (2010). *In vitro* multiplication of the rare and endangered slipper orchid, *Paphiopedilum rothschildianum* (Orchidaceae). *African Journal of Biotechnology*. 9(14): 2062-2068. (IF: 0.565)
87. Ng, S.P., Tan, C.P., Lai, O.M., Long, K. and Mirrhosseni, H. (2010). Extraction and characterization of dietary fiber from coconut residue. *International Journal of Food, Agriculture and Environment*. 8(1): 172-177. (IF: 0.349)
88. Nooraee, S.E., Alimon, A.R., Ho, Y.W. and Abdullah, N. (2010). Characterization of *Kluyveromyces marxianus* as a potential feed additive for ruminants. *Letters in Applied Microbiology*. 50(6): 578-584. (IF: 1.640)
89. Norfarina, M.N., Rosfarizan, M., Foo, H.L. and Raha, A.R. (2010). Improvement of folate biosynthesis by lactic acid bacteria using response surface methodology. *Journal of Food Technology and Biotechnology*. 48(2): 243-250. (IF: 0.976)
90. Nyam, K.L., Tan, C.P., Karim, R., Lai, O.M., Long, K. and Che-Man, Y.B. (2010). Extraction of tocopherol-enriched oils from Kalahari melon and roselle seeds by supercritical fluid extraction (SFE-CO<sub>2</sub>). *Food Chemistry*. 119(3): 1278-1283. (IF: 3.146)
91. Nyam, K.L., Tan, C.P., Lai, O.M., Long, K. and Che-Man, Y.B. (2010). Optimization of supercritical fluid extraction of phytosterol from roselle seeds with a central composite design model. *Food and Bioproducts Processing*. 88(2-3): 239-246. (IF: 0.952)
92. Omidvar, V., Abdullah, S.N.A., Izadfar, A., Ho, C.L. and Maziah, M. (2010). The oil palm metallothionein promoter contains a novel AGTTAGG motif conferring its fruit-specific expression and is inducible by abiotic factors. *Planta*. 232(4): 925-936. (IF: 3.372)

93. Paramasivam, S., Yee, S.L., Ho, C.L. and Harikrishna, J.A. (2010). High frequency plant regeneration from mature seed of elite, recalcitrant Malaysian Indica rice (*Oryza sativa L.*) cv. MR 219. *Acta Biologica Hungarica*. 61(3): 313–321. (IF: 0.551)
94. Parameswari, N., Skepper, J.N. and Hanke, D. (2010). Distribution of arabinogalactan protein (AGP) epitopes on the anther-derived embryoid cultures of *Brassica napus*. *Pertanika Journal of Tropical Agricultural Science*. 33(2): 303-313.
95. Radzi, S.M., Rosfarizan, M., Basri, M., Salleh, A.B., Ariff, A.B., Abdul-Rahman, M.B. and Abdul-Rahman, R.N.Z. (2010). Kinetics of enzymatic synthesis of liquid wax ester from oleic acids and oleyl alcohol. *Journal of Oleo Science*. 59(3): 127-134. (IF: 2.444)
96. Ramanan, R.N., Joo, S.T., Mohamed, M.S., Ling, T.C., Tey, B.T. and Ariff, A.B. (2010). Optimization of osmotic shock process variables for enhancement of the release of periplasmic interferon- $\alpha 2\beta$  from *Escherichia coli* using response method. *Process Biochemistry*. 45: 196-202. (IF: 2.444)
97. Ramanan, R.N., Ling, T.C., Tey, B.T., and Ariff, A.B. (2010). A simple method for quantification of interferon- $\alpha 2\beta$  through surface plasmon resonance technique. *African Journal of Biotechnology*. 9(11): 1680-1689. (IF: 0.565)
98. Ramanan, R.N., Wong, B.T., Memari, H.R., Azaman, S.N.A., Ling, T.C., Tey, B.T., Mohd-Lila, M.A., Abdullah, M.P., Raha, A.R. and Ariff, A.B. (2010). Effect of promoter strength and signal sequence on the periplasmic expression of human interferon- $\alpha 2\beta$  in *Escherichia coli*. *African Journal of Biotechnology*. 9(3): 285-292. (IF: 0.565)
99. Ramli, N., Abd-Aziz, S., Hassan, M.A., Alitheen, N., Kamaruddin, K. (2010). Potential cyclodextrin glycosyltransferase producer from locally isolated bacteria. *African Journal of Biotechnology*. 9(43): 7317-7321. (IF: 0.565)
100. Roohinejad, S., Omidizadeh, A., Mirhosseini, H., Saari, N., Shuhaimi, M. and Rokiah. (2010). Effect of pre-germination time of brown rice on serum cholesterol levels of hypercholesterolaemic rats. *Journal of the Science of Food and Agriculture*. 90(2): 245-241. (IF: 1.386)
101. Roowi, S.H., Ho, C.L., Syed-Alwee, S.S.R., Abdullah, M.O. and Napis, S. (2010). Isolation and characterization of differentially expressed transcripts from the suspension cells of oil palm (*Elaeis guineensis* Jacq.) in response to different concentration of auxins. *Molecular Biotechnology*. 46(1): 1-19. (IF: 2.444)
102. Rosfarizan, M., Mohamed, S., Suhaili, N., Md-Salleh, M. and Ariff, A.B. (2010). Kojic acid: applications and development of fermentation process for production. *Biotechnology and Molecular Biology Reviews*. 5(2): 24-37.
103. Sahilah, A.M., Tang, S.Y., Zaimawati, M.N., Rosnah, H., Umi-Kalsom, M.S. and Son, R. (2010). Identification and characterization of actinomycetes for biological control of bacterial wilt of *Ralstonia solanacearum* isolated from tomato. *Journal Tropical Agricultural and Food Science*. 38(1): 103-114.
104. Salina, M.R., Rosfarizan, M., Basri, M., Salleh, A.B., Ariff, A.B., Rahman, M.B.A and Abdul-Rahman, R.N.Z. (2010). Kinetics of enzymatic synthesis of oleyl oleate, a liquid wax ester by oleic acid and oleyl alcohol. *Journal of Oleo Science*. 59(3): 127-134.
105. Seng, H.L., Von, S.T., Tan, K.W., Maah, M.J., Ng, S.W., Abdul-Rahman, R.N.Z., Caracelli, I. and Ng, C.H. (2010). Crystal structure, DNA binding studies, nucleolytic property and topoisomerase I inhibition of zinc complex with 1,10-phenanthroline and 3-methylpicolinic acid. *Biometals*. 23: 99-118. (IF: 3.172)
106. Shafiquzzaman, S., Tan, S.G. and Umi-Kalsom, M.Y. (2010). Isozyme analysis and relationships among three species in Malaysian *Trichoderma* isolates. *Journal of Microbiology and Biotechnology*. 20(9): 1266-1275.
107. Shahbazi, A., Zakaria, M.P., Yap, C.K., Tan, S.G., Surif, S., Mohamed, C.A.R., Sakari, M., Bakhtiari, A.R., Bahry, P.S., Chandru, K. and Mirsadeghi, S.A. (2010). Use of different tissues of *Perna Viridis* as biomonitor of polycyclic aromatic hydrocarbons (PAHs) in the coastal waters of Peninsular Malaysia. *Environmental Forensics*. 11(3): 248-263. (IF: 0.529)
108. Shukor, M.Y., Ahmad, S.A., Nadzir, M.M.M., Abdullah, M.P., Shamaan, N.A. and Syed, M.A. (2010). Molybdate reduction by *Pseudomonas* sp. strain DRY2. *Journal of Applied Microbiology*. 108(6): 2050-2058. (IF: 2.098)

109. Shukor, M.Y., Rahman, M.F., Suhaili, Z., Shamaan, N.A. and Syed, M.A. (2010). Hexavalent molybdenum reduction to mo-blue by *Acinetobacter calcoaceticus*. *Folia Microbiologica*. 55(2): 137-143. (IF: 0.978)
110. Siti-Humeirah, A.G., Nor-Azah, M.A., Mailina, J., Muhajir H. and Abdullah, A.P. (2010). Chemical composition of three *Xylopia* leaf essential oils from pasoh forest reserve, Negeri Sembilan, Malaysia. *Journal of Tropical Forest Science*. 22(1): 1-4. (IF: 0.323)
111. Siti-Humeirah, G., A. Nor-Azah, M., Mastura, M., Mailina, J., Saiful, J. A., Muhajir, H. and Abdullah, M.P. (2010). Chemical constituents and antimicrobial activity of *Goniothalamus macrophyllus* (Annonaceae) from Pasoh Forest Reserve, Malaysia. *African Journal of Biotechnology*. 9(34): 5511-5515. (IF: 0.565)
112. Suhaili, N., Mohamed, M.S., Rosfarizan, M. and Ariff, A.B. (2010). Gas-liquid mass transfer performance of dual impeller system employing rushtons, concave-bladed disc (CD-6) turbines and their combination in stirred tank bioreactor. *Journal of Applied Sciences Research*. 6(3): 234-244.
113. Sulaiman, A., Tabatabaei, M., Mohd-Yusoff, M.Z., Ibrahim, M.F., Hassan M.A. and Shirai, Y. (2010). Accelerated start-up of a semi-commercial digester tank treating palm oil mill effluent with sludge seeding for methane production. *World Applied Sciences Journal*. 8(2): 247-258.
114. Tabatabaei, M., Zakaria, M.R., Raha, A.R., Abdullah, N., Wright, A.G., Shirai, Y., Shamsara, M., Sakai, K. and Hassan, M.A. (2010). Comparative study of methods for extraction and purification of environmental DNA from high-strength wastewater sludge. *African Journal of Biotechnology*. 9(31): 4926-4937. (IF: 0.565)
115. Tee, C.S., Wong, C.Q., Lam, X.L. and Maziah, M. (2010). A preliminary study of protocorm-like-bodies (PLBs) induction using leaf ex-planta of Vanda and Dendrobium orchids. *Asia Pacific Journal of Molecular Biology and Biotechnology*. 18(1): 189-191.
116. Tengku-Abd-Hamid, T.H., Abdul-Rahman, R.N.Z. and Basri, M. (2010). Molten globule-triggered inactivation of a thermostable and solvent stable lipase in hydrophilic solvents. *Protein Journal*. 29(4): 290-297. (IF: 1.017)
117. Teo, B.S.X., Basri, M., Zakaria, M.R.S., Salleh, A.B., Abdul-Rahman, R.N.Z. and Abdul-Rahman, M.B. (2010). A potential tocopherol acetate loaded palm oil esters-in-water nanoemulsions for nanocosmeceuticals. *Journal of Nanobiotechnology*. 8(4): 1-11.(IF: 1.281)
118. Ting, N.C., Mohd-Zaki, N., Rosli, R., Low, E.T.L., Ithnin, M., Cheah, S.C., Tan, S.G. and Singh, R. (2010). SSR mining in oil palm EST database: application in oil palm germplasm diversity studies. *Journal of Genetics*. 89(2): 135-145. (IF: 0.762)
119. Wahid, S., Mahmud, T.M.M, Maziah, M., Yahya, A. and Ab-Rahim, M. (2010). Total phenolics content and antioxidant activity of hot water extracts from dried *Ficus deltoidea* leaves. *Journal of Tropical Agricultural and Food Science*. 38(1): 115-122.
120. Wang, W.S., Loh, T.C., Foo, H.L., Liang, J.B. and Goh, Y.M. (2010). *In vitro* study of fibre fermentability by swine fecal microflora. *Journal of Applied Animal Research*. 37: 197-200. (IF: 0.193)
121. Wong, S., Kabeir, B.M., Shuhaimi, M., Rosfarizan, M., Hussin, A.S.M. and Manap, M.Y. (2010). Viability of *Bifidobacterium pseudocatelatum* G4 after spray-drying and freeze-drying. *Microbiological Insights*. 3: 37-43.
122. Yang, Y.H., Brigham, C.J., Budde, C.F., Boccazzini, P., Willis, L.B., Hassan, M.A., Mohd-Yusof, Z.A., Rha, C. and Sinskey, A.J. (2010). Optimization of growth media components for polyhydroxyalkanoate (pha) production from organic acids by *Rastonia eutropha*. *Applied Microbiology Biotechnology*. 87:2037-2045.(IF: 2.896)
123. Yap, C.K., Edward, F.B. and Tan, S.G. (2010). Heavy metal concentrations (CU, PB, NI and ZN) in the surface sediments from a semi-enclosed intertidal water, the Johore Straits: Monitoring data for future reference. *Journal of Sustainability Science and Management*. 5(2): 44-57.
124. Yap, C.K., Edward, F.B. and Tan, S.G. (2010). Identification of potential intertidal bivalves as biomonitor of heavy-metal contamination by using bivalve-sediment accumulation factors (BSAFS). *Journal of Sustainability Science and Management*. 5(1): 29-38.

125. Yap, C.K., Edward, F.B. and Tan, S.G. (2010). The Length of the crystalline style of *Perna Viridis* in relation to shell length, shell width and shell height: Data for future reference. *Journal of Sustainability Science and Management*. 5(1): 39-46.
126. Yap, C.K., Ismail, A. and Tan, S.G. (2010). A baseline study on mercury concentrations in the surface sediments of the straits of Malacca collected during four sampling cruises conducted between 1998-2000. *Asian Journal of Microbiology Biotechnology Environment Science*. 12(1): 11-17.
127. Yap, C.K., Lo, W.S., Edward, F.B. and Tan, S. G. (2010). Multivariate analysis of heavy metal concentrations in the different tissues of four intertidal clams from Peninsular Malaysia. *Journal of Sustainability Science and Management*. 5(2): 110-122.
128. Yap, C.K., Mohd-Fitri, M.R., Mazyhar, Y. and Tan, S.G. (2010). Effects of metal-contaminated soils on the accumulation of heavy metals in different parts of *Centella asiatica*: a laboratory study. *Sains Malaysiana*. 39(3): 347-352.
129. Yap, C.K., Mohd-Ruszaidi, S., Cheng, W.H. and Tan, S.G. (2010). Heavy-metal concentrations in the mangrove snail, *Nerita lineata* and surface sediments collected from Klang River Estuary, Selangor, Malaysia. *Journal of Sustainability Science and Management*. 5(1): 1-12.
130. Yap, C.K., Mohd-Ruszaidi, S., Edward, F.B. and Tan, S.G. (2010). Heavy metal concentrations in the different tissues of horseshoe crabs collected from intertidal sites of the polluted Juru River and the relatively unpolluted Sepang Besar River, Peninsular Malaysia. *Malaysian Journal of Science*. 29(2): 137-152.
131. Yap, P.W., Ariff, A.B., Woo, K.K., and Hii, S.L. (2010). Production of cyclodextrin glycosyltransferase (CGTase) by *Bacillus lehensis* S8 using sago starch as carbon source. *Journal of Biological Sciences*. 10(7): 676-681.
132. Yap, W.B., Tey, B.T., Alitheen, N.B. and Tan, W.S. (2010). Purification of His-tagged HBcAg from unclarified bacterial homogenate using immobilized metal affinity-expanded bed adsorption chromatography. *Journal of Chromatography A*. 1217(21): 3473-3480. (IF: 4.101)
133. Yeap, S.K., Alitheen, N. B., Mustafa, S., Abd-Aziz, S., Abdul-Rahman, M. and Ali, A. M. (2010). Immunomodulatory effect of zerumbone isolated from roots of *Zingiber zerumbet*. *Pakistan Journal of Pharmaceutical Sciences*. 23(4): 75-82. (IF: 0.588)
134. Yong, H.S., Tey, B.T., Hii, S.L., Mustapha-Kamal, S.M., Ariff, A.B. and Ling, T.C. (2010). Application of a high density adsorbent in expanded bed adsorption of lipase from *Burkholderia pseudomalli*. *African Journal of Biotechnology*. 9(2):203-216. (IF: 0.565)
135. Yousaf, M.S., Yusof, S., Abdul-Manap, M.Y.B. and Abd-Aziz, S. (2010). Storage stability of clarified banana juice fortified with inulin and oligofructose. *Journal of Food Processing and Preservation*. 34(2): 599-610. (0.421)
136. Yousr, A.H, Napis, S. Rusul, G.R.A., Alitheen, N.B. and Son, R. (2010). Molecular typing of Aeromonas species using RAPD and ERIC-PCR fingerprint. *International Food Research Journal*. 17: 691-698. (IF: 0.400)
137. Yusof, N., Hassan, M.A., Phang, L.Y., Tabatabaei, M., Othman, M.R., Mori, M., Wakisaka, M., Sakai, K. and Shirai, Y. (2010). Nitrification of ammonium-rich sanitary landfill leachate. *Waste Management*. 30(1): 100-109. (IF: 2.433)
138. Yusuf, S., Ahmad, S., Mansor, H. and Maziah, M. (2010). Antioxidant activities, flavonoids, ascorbic acid and phenolic contents of Malaysian vegetables. *Journal of Medicinal Plants Research*. 4(10): 881-890. (IF: 0.590)
139. Zaidan, U.H., Abdul-Rahman, M.B., Basri, M., Othman, S.S., Abdul-Rahman, R.N.Z. and Salleh, A.B. (2010). Silylation of mica for lipase immobilization as biocatalysts in esterification. *Applied Clay Science*. 47(3-4): 276-282. (IF: 2.784)
140. Zakaria, M.R., Ariffin, H., Mohd Johar, N.A., Abd-Aziz, S., Nishida, H., Shirai, Y. and Hassan, M.A. (2010). Biosynthesis and characterization of poly(3-hydroxybutyrate-co-3- hydroxyvalerate) copolymer from wild-type *Comamonas* sp. EB172. *Polymer Degradation and Stability*. 95(8): 1382-1386. (IF: 2.154)

- 141.** Zakaria, M.R., Tabatabaei, M., Ghazali, F.M., Abd-Aziz, S., Shirai, Y. and Hassan, M.A. (2010). Polyhydroxyalkanoate production from anaerobically treated palm oil mill effluent by new bacterial strain *Comamonas* sp. EB172. *World Journal of Microbiology and Biotechnology*. 26(5): 767-774. (IF: 1.082)