

**Faculty of Science, Mahidol University's International Journal Publications  
Year 2007 : 305 Articles**

Department of Biochemistry          48 Articles

1. Alfieri A, Fersini F, **Ruangchan N, Prongjit M, Chaiben P\***, Mattevi A\*. Structure of the monooxygenase component of a two-component flavoprotein monooxygenase. [P Natl Acad Sci USA Jan 2007;104\(4\):1177-82.](#)  
Department : Biochemistry / Center for Protein Structure and Function  
Author's Status : Academic Staff / Ph.D. Student  
Journal Name : Proceedings of the National Academy of Sciences of the United States of America / IF = 9.643  
Indexed in : ISI-WOS
  
2. **Anantamongkol U**, Takemura H\*, **Suthiphongchai T, Krishnamra N**, Horio Y. Regulation of Ca<sup>2+</sup> mobilization by prolactin in mammary gland cells: Possible role of secretory pathway Ca<sup>2+</sup>-ATPase type 2. [Biochem Bioph Res Co Jan 2007;352\(2\):537-42.](#)  
Department : Physiology / Biochemistry  
Author's Status : Academic Staff / Ph.D Student (Physiology)  
Journal Name : Biochemical and Biophysical Research Communications / IF = 2.855  
Indexed in : ISI-WOS, SciFinder
  
3. **Aungsumart S, Vaeteewoottacharn K, Chamutpong S, Ponglikitmongkol M\***. Chemo-radio resistance in cervical cancer induced by HPV16 E7. [ScienceAsia Mar 2007;33\(1\):5-11.](#)  
Department : Biochemistry  
Author's Status : Academic Staff / Ph.D. Student  
Journal Name : ScienceAsia  
Indexed in : SCOPUS
  
4. Auparakkitanon S\*, **Poonchareon K, Sopitthummakhun K, Wilairat P**. Interactions between antiplasmodial 3,6-diamino-1'-dimethyl-9-anilinoacridine and hematin and concanamycin A. [Southeast Asian J Trop Med Public Health Nov 2007;38\(6\):979-82.](#)  
Department : Biochemistry  
Author's Status : Academic Staff / M.Sc. Student  
Journal Name : Southeast Asian Journal of Tropical Medicine and Public Health  
Indexed in : SCOPUS, SciFinder
  
5. **Boonsaen T, Rojvirat P**, Surinya KH, Wallace JC, **Jitrapakdee S**. Transcriptional regulation of the distal promoter of the rat pyruvate carboxylase gene by hepatocyte nuclear factor 3 $\beta$ /Foxa2 and upstream stimulatory factors in insulinoma cells. [Biochem J Jul 2007;405\(2\):359-67.](#)  
Department : Biochemistry  
Author's Status : Academic Staff / Ph.D. Student  
Journal Name : Biochemical Journal / IF = 4.100  
Indexed in : ISI-WOS, SCOPUS, SciFinder, PubMed
  
6. **Boonsaeng V\*, Sobhon P\***. Funding policy and strategies for basic research by Academic Division of The Thailand Research Fund. [ScienceAsia Dec 2007;33\(suppl. 1\):9-15.](#)  
Department : Biochemistry / Anatomy  
Author's Status : Academic Staff  
Journal Name : ScienceAsia  
Indexed in : SCOPUS
  
7. Chaisue C, Kitcharoen S\*, **Wilairat P**, Jetsrisuparb A, Fucharoen G, Fucharoen S.  $\alpha/\beta$ -Globin mRNA ratio determination by multiplex quantitative real-time reverse transcription-polymerase chain reaction as an indicator of globin gene function. [Clin Biochem Dec 2007;40\(18\):1373-1377.](#)  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : Clinical Biochemistry / IF = 2.331  
Indexed in : ISI-WOS, SCOPUS
  
8. Chanchaichaovivat A, **Ruenwongsa P\*, Panijpan B**. Screening and identification of yeast strains from fruits and vegetables: Potential for biological control of postharvest chilli anthracnose (*Colletotrichum capsici*). [Biol Control Sep 2007;42\(3\):326-335.](#)  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : Biological Control / IF = 1.735  
Indexed in : ISI-WOS, SCOPUS
  
9. **Chookajorn T\***, Costanzo MS, Hartl DL, Deitsch KW. Malaria: a peek at the var variorum. [Trends Parasitol Dec 2007;23\(12\):563-565.](#)  
Department : Biochemistry  
Author's Status : Academic Staff

Journal Name : Trends in Parasitology / IF = 4.907  
Indexed in : ISI-WOS

10. **Chookajorn T\***, Dzikowski R, Frank M, Li F, Jiwani AZ, Hartl DL, Deitsch KW. Epigenetic memory at malaria virulence genes. [P Natl Acad Sci USA](#) Jan 2007;104(3):899-902.  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : Proceedings of the National Academy of Sciences of the United States of America / IF = 9.643  
Indexed in : ISI-WOS, SCOPUS
11. Chuankhayan P, Rimlumduan T, **Svasti J**, Cairns JRK\*. Hydrolysis of soybean isoflavonoid glycosides by *Dalbergia*  $\beta$ -glucosidases. [J Agri Food Chem](#) Mar 2007;55(6):2407-12.  
Department : Biochemistry / Center for Protein Structure and Function  
Author's Status : Academic Staff  
Journal Name : Journal of Agricultural and Food Chemistry / IF = 2.322  
Indexed in : ISI-WOS
12. Chuankhayan P, Rimlumduan T, Tantanuch W, Mothong N, Kongsaree PT, Metheenukul P, **Svasti J**, Jensen ON, Cairns JRK\*. Functional and structural differences between isoflavonoid  $\beta$ -glycosidases from *Dalbergia* sp. [Arch Biochem Biophys](#) Dec 2007;468(2):205-216.  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : Archives of Biochemistry and Biophysics / IF = 2.969  
Indexed in : ISI-WOS, SCOPUS
13. **Doungchawee G\***, **Sirawaraporn W**, Icksang-Ko A, **Kongtim S**, Naigowit P, Thongboonkerd V. Use of immunoblotting as an alternative method for serogrouping *Leptospira*. [J Med Microbiol](#) May 2007;56(5):587-592.  
Department : Pathobiology / Biochemistry  
Author's Status : Academic Staff  
Journal Name : Journal of Medical Microbiology / IF = 2.180  
Indexed in : ISI-WOS, SCOPUS
14. **Hommalai G**, Withers SG, Chuenchor W, Cairns JR, **Svasti J\***. Enzymatic synthesis of cello-oligosaccharides by rice BGlu1  $\beta$ -glucosidase glycosynthase mutants. [Glycobiology](#) Jul 2007;17(7):744-53.  
Department : Biochemistry / Center for Protein Structure and Function  
Author's Status : Academic Staff / Ph.D. Student  
Journal Name : Glycobiology / IF = 3.668  
Indexed in : ISI-WOS
15. Jirakanjanakit N, **Rongnoparut P**, Saengtharapip S, Chareonviriyaphap T, Duchon S, Bellec C, Yoksan S\*. Insecticide susceptible/resistance status in *Aedes* (*Stegomyia*) *aegypti* and *Aedes* (*Stegomyia*) *albopictus* (Diptera: Culicidae) in Thailand during 2003-2005. [J Econ Entomol](#) Apr 2007;100(2):545-50.  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : Journal of Economic Entomology / IF = 1.275  
Indexed in : ISI-WOS, SCOPUS
16. Jirakanjanakit N\*, Saengtharapip S, **Rongnoparut P**, Duchon S, Bellec C, Yoksan S. Trend of temephos resistance in *Aedes* (*Stegomyia*) mosquitoes in Thailand during 2003-2005. [Environ Entomol](#) Jun 2007;36(3):506-11.  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : Environmental Entomology / IF = 1.344  
Indexed in : ISI-WOS, PubMed
17. **Jitrapakdee S**, Adina-Zada A, Besant PG, Surinya KH, Cleland WW, Wallace JC, Attwood PV\*. Differential regulation of the yeast isozymes of pyruvate carboxylase and the locus of action of acetyl CoA. [Int J Biochem Cell Biol](#) 2007;39(6):1211-23.  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : International Journal of Biochemistry and Cell Biology / IF = 4.804  
Indexed in : ISI-WOS, SCOPUS
18. **Jitrapakdee S**, Surinya KH, Adina-Zada A, Polyak SW, Stojkoski C, Smyth R, Booker GW, Cleland WW, Attwood PV, Wallace JC\*. Conserved Glu40 and Glu433 of the biotin carboxylase domain of yeast pyruvate carboxylase I isoenzyme are essential for the association of tetramers. [Int J Biochem Cell Biol](#) 2007;39(11):2120-34.  
Department : Biochemistry  
Author's Status : Academic Staff

Journal Name : International Journal of Biochemistry and Cell Biology / IF = 4.804  
Indexed in : ISI-WOS, SCOPUS

19. **Kaewpa D, Boonsuepsakul S, Rongnoparut P\***. Functional expression of mosquito NADPH-cytochrome P450 reductase in *Escherichia coli*. [J Econ Entomol Jun 2007;100\(3\):946-53](#).  
Department : Biochemistry  
Author's Status : Academic Staff / Ph.D. Student  
Journal Name : Journal of Economic Entomology / IF = 1.275  
Indexed in : ISI-WOS, SCOPUS
20. Keeratichamroen S, Cairns JR, Sawangareetrakul P, Liammongkolkul S, Champattanachai V, Srisomsap C, Kamolsilp M, Wasant P, **Svasti J\***. Novel mutations found in two genes of thai patients with isolated methylmalonic acidemia. [Biochem Genet Jun 2007;45\(5-6\):421-30](#).  
Department : Biochemistry / Center for Protein Structure and Function  
Author's Status : Academic Staff  
Journal Name : Biochemical Genetics / IF = 0.876  
Indexed in : ISI-WOS, SCOPUS
21. **Kertbundit S**, Pongtanom N, Ruanjan P, Chantasingh D, Tanwanchai A, **Panyim S**, Juricek M\*. Resistance of transgenic papaya plants to Papaya ringspot virus. [Biol Plantarum Jun 2007;51\(2\):333-9](#).  
Department : Plant Science / Biochemistry  
Author's Status : Academic Staff  
Journal Name : Biologia Plantarum / IF = 1.198  
Indexed in : ISI-WOS, SCOPUS
22. **Kiatpathomchai W\*, Jareonram W, Jitrapakdee S, Flegel TW**. Rapid and sensitive detection of Taura syndrome virus by reverse transcription loop-mediated isothermal amplification. [J Virol Methods Dec 2007;146\(1-2\):125-8](#).  
Department : Centex Shrimp / Biochemistry  
Author's Status : Academic Staff / Supporting Staff / M.Sc. Student (Biotechnology)  
Journal Name : Journal of Virological Methods / IF = 2.097  
Indexed in : ISI-WOS, SCOPUS
23. Kim D\*, **Jitrapakdee S**, Thompson M. Differential regulation of the promoter activity of the mouse UCP2 and UCP3 genes by MyoD and Myogenin. [J Biochem Mol Biol Nov 2007;40\(6\):921-7](#).  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : Journal of Biochemistry and Molecular Biology / IF = 1.465  
Indexed in : ISI-WOS
24. **Leelawat K**, Leelawat S, Narong S, Hongeng S\*. Roles of the MEK1/2 and AKT pathways in CXCL12/CXCR4 induced cholangiocarcinoma cell invasion. [World J Gastroenterol Mar 2007;13\(10\):1561-8](#).  
Department : Biochemistry  
Author's Status : Adjunct Staff  
Journal Name : World Journal of Gastroenterology  
Indexed in : PubMed, SCOPUS
25. Moolmuang B, Sraphet S, Na-Chiangmai A, Smith DR, **Panyim S**, Triwitayakorn K\*. Application of AFLP technique to the study of calving interval trait of thai swamp buffalo (*Bubalus bubalis*). [ScienceAsia Jun 2007;33\(2\):161-164](#).  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : ScienceAsia  
Indexed in : SCOPUS
26. Nishimoto M, Mori H, Moteki T, Takamura Y, Iwai G, Miyaguchi Y, Okuyama M, Wongchawalit J, Surarit R, **Svasti J**, Kimura A, Chiba S. Molecular cloning of cDNAs and genes for three  $\alpha$ -glucosidases from European honeybees, *Apis mellifera* L., and heterologous production of recombinant enzymes in *Pichia pastoris*. [Biosci Biotech Bioch Jul 2007;71\(7\):1703-16](#).  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : Bioscience Biotechnology and Biochemistry / IF = 1.256  
Indexed in : ISI-WOS
27. Ongvarrasopone C\*, Roshorm Y, **Panyim S**. A simple and cost effective method to generate dsRNA for RNAi studies in invertebrates. [ScienceAsia Mar 2007;33\(1\):35-9](#).  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : ScienceAsia  
Indexed in : SCOPUS

28. **Pethuan S**, Jirakanjanakit N, Saengtharapit S, Chareonviriyaphap T, **Kaewpa D**, **Rongnoparut P\***. Biochemical studies of insecticide resistance in *Aedes (Stegomyia) aegypti* and *Aedes (Stegomyia) albopictus* (Diptera: Culicidae) in Thailand. [Trop Biomed Jun 2007;24\(1\):7-15](#).  
[Department](#) : Biochemistry  
[Author's Status](#) : Academic Staff / Ph.D. Student  
[Journal Name](#) : Tropical Biomedicine  
[Indexed in](#) : PudMed
29. Phatthiya A, Takahashi S, Chareonthiphakorn N, Koyama T, **Wititsuwannakul D**, Wititsuwannakul R\*. Cloning and expression of the gene encoding solanesyl diphosphate synthase from *Hevea brasiliensis*. [Plant Sci 2007;172\(4\):824-31](#).  
[Department](#) : Biochemistry  
[Author's Status](#) : Academic Staff  
[Journal Name](#) : Plant Science / IF = 1.631  
[Indexed in](#) : ISI-WOS
30. Plongthongkum N, Kullawong N, **Panyim S**, Tirasophon W\*. Ire1 regulated *XBP1* mRNA splicing is essential for the unfolded protein response (UPR) in *Drosophila melanogaster*. [Biochem Biophys Res Co Mar 2007;354\(3\): 789-94](#).  
[Department](#) : Biochemistry  
[Author's Status](#) : Academic Staff  
[Journal Name](#) : Biochemical and Biophysical Research Communications / IF = 2.855  
[Indexed in](#) : ISI-WOS, SCOPUS
31. **Ponmee N**, **Chuchue T**, **Wilairat P**, Yuthavong Y, Kamchonwongpaisan S\*. Artemisinin effectiveness in erythrocytes is reduced by heme and heme-containing proteins. [Biochem Pharmacol Jun 2007;74\(1\):153-60](#).  
[Department](#) : Biochemistry  
[Author's Status](#) : Academic Staff / Ph.D. Student  
[Journal Name](#) : Biochemical Pharmacology / IF = 3.581  
[Indexed in](#) : ISI-WOS, SCOPUS
32. Sandefur CI, Wooden JM, Quaye IK, **Sirawaraporn W**, Sibley CH\*. Pyrimethamine-resistant dihydrofolate reductase enzymes of *Plasmodium falciparum* are not enzymatically compromised *in vitro*. [Mol Biochem Parasitol Jul 2007;154\(1\):1-5](#).  
[Department](#) : Biochemistry  
[Author's Status](#) : Academic Staff  
[Journal Name](#) : Molecular and Biochemical Parasitology / IF = 2.641  
[Indexed in](#) : ISI-WOS, SCOPUS
33. Sangvanich P\*, Kaeothip S, Srisomsap C, Thiptara P, Petsom A, Boonmee A, **Svasti J**. Hemagglutinating activity of *Curcuma* plants. [Fitoterapia Jan 2007;78\(1\):29-31](#). (Short Communication)  
[Department](#) : Biochemistry / Center for Protein Structure and Function  
[Author's Status](#) : Academic Staff  
[Journal Name](#) : Fitoterapia / IF = 0.908  
[Indexed in](#) : ISI-WOS
34. **Siritantikorn A**, Johansson K, Ahlen K, Rinaldi R, **Suthiphongchai T**, **Wilairat P**, Morgenstern R\*. Protection of cells from oxidative stress by microsomal glutathione transferase 1. [Biochem Biophys Res Co Apr 2007;355\(2\):592-6](#).  
[Department](#) : Biochemistry  
[Author's Status](#) : Academic Staff / Ph.D. Student  
[Journal Name](#) : Biochemical and Biophysical Research Communications / IF = 2.855  
[Indexed in](#) : ISI-WOS, SCOPUS
35. Srisomsap C\*, Subhasitanont P, Sawangareetrakul P, Chokchaichamnankit D, Ngiwsara L, Chialaem K, **Svasti J**. Comparison of membrane-associated proteins in human cholangiocarcinoma and hepatocellular carcinoma cell lines. [Proteomics Clin Appl Jan 2007;1\(1\):89-106](#).  
[Department](#) : Biochemistry / Center for Protein Structure and Function  
[Author's Status](#) : Academic Staff  
[Journal Name](#) : Proteomics - Clinical Applications (a new journal from Wiley)  
[Indexed in](#) :
36. **Sritanaudomchai H**, **Pavasuthipaisit K**, **Kitiyanant Y**, Kupradinun P, Mitalipov S, **Kusamran T\***. Characterization and multilineage differentiation of embryonic stem cells derived from a buffalo parthenogenetic embryo. [Mol Reprod Dev Oct 2007;74\(10\):1295-302](#).  
[Department](#) : Biochemistry / Anatomy  
[Author's Status](#) : Academic Staff / Ph.D. Student  
[Journal Name](#) : Molecular Reproduction and Development / IF = 2.379  
[Indexed in](#) : ISI-WOS

37. **Suadee C, Nijvipakul S, Svasti J**, Entsch B, Ballou DP, **Chaiyen P\***. Luciferase from *Vibrio campbellii* is more thermostable and binds reduced FMN better than its homologues. [J Biochem](#) Oct 2007;142(4):539-52.  
Department : Biochemistry / Center for Excellence in Protein Structure and Function  
Author's Status : Academic Staff / Ph.D. Student  
Journal Name : Journal of Biochemistry / IF = 1.963  
Indexed in : ISI-WOS, SCOPUS, PubMed
38. Sucharitakul J, **Phongsak T**, Entsch B, **Svasti J, Chaiyen P\***, Ballou DP. Kinetics of a two-component *p*-hydroxyphenylacetate hydroxylase explain how reduced flavin is transferred from the reductase to the oxygenase. [Biochemistry](#) Jul 2007;46(29):8611-8623.  
Department : Biochemistry / Center for Protein Structure and Function  
Author's Status : Academic Staff / Ph.D. Student  
Journal Name : Biochemistry / IF = 3.633  
Indexed in : ISI-WOS, SCOPUS
39. Suginta W\*, Songsiriththigul C, Kobdaj A, Opassiri R, **Svasti J**. Mutations of Trp275 and Trp397 altered the binding selectivity of *Vibrio carchariae* chitinase A. [Biochim Biophys Acta](#) Aug 2007;1770(8):1151-60.  
Department : Biochemistry / Center for Protein Structure and Function  
Author's Status : Academic Staff  
Journal Name : Biochimica et Biophysica Acta (BBA) - General Subjects / IF = 2.024  
Indexed in : ISI-WOS, SCOPUS
40. Suwannarat P, Keeratichamroen S, Wattanasirichaigoon D\*, Ngiwsara L, Cairns JR, **Svasti J**, Visudtibhan A, Pangkanon S. Molecular characterization of type 3 (neuronopathic) Gaucher disease in Thai patients. [Blood Cells Mol Dis](#) Nov-Dec 2007;39(3):348-52.  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : Blood Cells, Molecules, and Diseases / IF = 2.678  
Indexed in : ISI-WOS, SCOPUS
41. **Svasti MRJ\***. Graduate training, research and excellence: Viewpoint from Mahidol University. [ScienceAsia](#) Sep 2007;33(3):253-6. (Review)  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : ScienceAsia  
Indexed in : SCOPUS
42. **Svasti MRJ\***. Networking and research collaboration: Some personal experiences. [ScienceAsia](#) Dec 2007;33(suppl. 1):19-25.  
Department : Biochemistry / Center for Excellence in Protein Structure and Function  
Author's Status : Academic Staff  
Journal Name : ScienceAsia  
Indexed in : SCOPUS
43. **Svasti MRJ\*, Asavisanu R**. Aspects of quality in academic journals: a consideration of the journals published in Thailand. [ScienceAsia](#) Jun 2007;33(2):137-43. (Review)  
Department : Biochemistry / Center of Scientific Information Resources (CSIR) and Stang Mongkolsuk Library  
Author's Status : Academic Staff / Supporting Staff  
Journal Name : ScienceAsia  
Indexed in : SCOPUS
44. Thammasirirak S\*, Preecharram S, Ponkham P, Daduang S, Araki T, **Svasti J**. New variant of quail egg white lysozyme identified by peptide mapping. [Comp Biochem Phys B](#) Jun 2007;147(2):314-24.  
Department : Biochemistry / Center for Protein Structure and Function  
Author's Status : Academic Staff  
Journal Name : Comparative Biochemistry and Physiology B Biochemistry & Molecular Biology / IF = 1.532  
Indexed in : ISI-WOS
45. Tirasophon W\*, Yodmuang S, Chinnirunvong W, Plongthongkum N, **Panyim S**. Therapeutic inhibition of yellow head virus multiplication in infected shrimps by YHV-protease dsRNA. [Antivir Res](#) May 2007;74(2):150-5.  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : Antiviral Research / IF = 2.878  
Indexed in : ISI-WOS, SCOPUS
46. **Wangsongsak A, Utarnpongsa S, Kruatrachue M\*, Ponglikitmongkol M, Pokethitiyook P, Sumranwanich T**. Alterations of organ histopathology and metallothionein mRNA expression in silver barb, *Puntius gonionotus* during subchronic cadmium exposure. [J Environ Sci](#) 2007;19(11):1341-8.  
Department : Biology / Biochemistry  
Author's Status : Academic Staff / Student

Journal Name : Journal of Environmental Sciences / IF = 0.395

Indexed in : ISI-WOS

47. **Wilairat P\***. Local problem, global implication. [ScienceAsia](#) Dec 2007;33(suppl. 1):81-83.  
Department : Biochemistry  
Author's Status : Academic Staff  
Journal Name : ScienceAsia  
Indexed in : SCOPUS
  
48. **Wongtrakoongate P, Mongkoldhumrongkul N**, Chaijan S, Kamchonwongpaisan S, **Tungpradabkul S\***. Comparative proteomic profiles and the potential markers between *Burkholderia pseudomallei* and *Burkholderia thailandensis*. [Mol Cell Probes](#) Apr 2007;21(2):81-91.  
Department : Biochemistry  
Author's Status : Academic Staff / Ph.D. Student / M.Sc. Student (Dept. Biology)  
Journal Name : Molecular and Cellular Probes / IF = 2.016  
Indexed in : ISI-WOS, SCOPUS

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