JISNUSON SVASTI

Summary of Publications

ORCID: *http://orcid.org/0000-0002-2217-4517;* 311 Articles (255 Research, 32 Education & Academic, 24 Proceedings) listed in Scopus and/or Web of Science; with 5,576 citations and H-index = 42 (Scopus) and 7,890 citations with H-index = 51 (Google Scholar).

6 Other Articles in Proceedings of Conferences; 13 Articles in Thai or Thai Journals; 5 Textbook & Book Chapter, Manual (co-authored)

Selected Publications

A. Research Articles in International Journals

1. *Svasti, J.* and Milstein, C. (1970) Variability of Interchain Binding of Immunoglobulins: interchain bridges of mouse IgG1. *Nature(Lond.)* **228:** 933-935.
2. *Svasti, J.* and Milstein, C. (1972) The Disulphide Bridges of a Mouse Immunoglobulin G1 Protein. *Biochem. J.* **126:** 837-850.
3. *Svasti, J.* and Milstein, C. (1972) The Complete Amino Acid Sequence of a Mouse Kappa Light Chain. *Biochem. J.* **128:** 427-444.
4. *Svasti, J.* and Milstein, C. (1972) The Parallel Nature of the Interchain Disulphide Bonds of Immunoglobulins: studies on a mouse IgG1 myeloma protein. *Europ. J. Biochem.* **31:** 405-422.
5. Adetugbo, K., Poskus, E., *Svasti, J.*, and Milstein, C. (1975) Mouse Immunoglobulin Subclasses: cyanogen bromide fragments and partial sequence of a gamma 1 chain. *Europ. J. Biochem.* **56:** 503-519.
6. *Svasti, M.R. J.* and Viriyachai, S. (1975) The Purification of Lactate Dehydrogenase Isozymes LDH-A4, LDH-B4 and LDH-C4 from Human Tissues. *J. Sci. Soc. Thailand* **1:** 57-71.
7. Pongsawasdi, P. and *Svasti, J.* (1976) The Heterogeneity of the Protamines from Human Spermatozoa. *Biochim. Biophys. Acta* **434:** 462- 473.
8. *Svasti, M.R. J.*, Prawatmuang, P., Vajanamarhutue, C., Kadjaphai, A., Wangthammang, S. and Talupphet, N. (1976) The Presence of Two IgG Subclasses in Waterbuffalo Immunoglobulins. *J. Sci. Soc. Thailand* **2:** 56-66.
9. *Svasti, J.* (1977) An Addition at the C-terminus of Water-Buffalo Immunoglobulin Lambda Chains. *Biochem. J.* **161**: 185-187.
10. *Svasti, J.* and Bowman, B.H. (1978) Human Group-Specific Component: changes in electrophoretic mobility resulting from vitamin D-binding and from neuraminidase digestion. *J. Biol. Chem.* **252:** 4188-4194.
11. *Svasti, J.* and Talupphet, N. (1979) Improvement in the Resolution of Human Sperm Protamines by Use of Iodoacetamide as Labelling Agent. *Biochim. Biophys. Acta* **577**: 221-225.
12. *Svasti, J.*, Kurosky, A., Bennett, A. and Bowman, B.H. (1979) Molecular Basis for the Three Major Forms of Human Serum Vitamin D Binding Protein (Group-Specific Component). *Biochemistry* **18**: 1161- 1167.

13. Toowicharanont P. and *Svasti, J.* (1980) A Logical Approach to the Isolation of Lactate Dehydrogenase Isozyme X from Human Testes: a general rationale for the isolation of homotetrameric LDH isozymes. *Experientia* **36:** 37-38.

14. Surarit, R. and *Svasti, J.* (1980) Effect of Ligand Binding on the Conformation of Human Plasma Vitamin D Binding Protein (Group-Specific Component). *Biochem. J.* **191**:404-410.

15. Surinrat, P., *Svasti, J.* and Surarit, R. (1981) Improved Purification and Fluorescence Changes upon Activation of Human Seminal Plasma Acidic Protease. *Biochim. Biophys. Acta* **659:** 38-47.

16. Anguravirutt, S. and *Svasti, J.* (1981) A New Procedure for the Purification of Rat Testis-Specific Histone TH2B Involving Affinity Related Chromatography. *Arch. Biochem. Biophys.* **210**: 412-416.

17. Wattanaseree, J. and *Svasti, J.* (1983) Human Testis-Specific Histone TH2B: Fractionation and Peptide Mapping. *Arch. Biochem. Biophys.* **225:** 892-897.

18. Wattanaseree, J., *Svasti, J.*, Bubpaniroj, P. and Mitranond, V. (1984) Effect of Vitamin A Deficiency on the Testis-Specific Basic Proteins of the Rat. *J. Biochem.(Tokyo)* **95**: 179-186.

19. Reid, W.A., Vongsorasak, L., *Svasti, J.*, Valler, M.J. and Kay, J. (1984) Identification of the Acid Proteinase in Human Seminal Fluid as a Gastricsin Originating in the Prostate. *Cell Tiss. Res.* **236**: 597- 600.

20. Yongvanich, T. and *Svasti, J.* (1984) Structural Differences between Somatic H2B and Testis- Specific TH2B Histones of the Rat. *Experientia* **40:** 845-846.

21. Tanphaichitr, J., *Svasti, J.* and Sobhon, P. (1984) Molecular Mechanism of the Antifertility Effects of Gossypol: a review. *J. Sci. Soc. Thailand* **10:** 197-206.

22. Reid, W.A., Liddle, C.N., *Svasti, J.* and Kay, J. (1985) Gastricsin in the Benign and Malignant Prostate. *J. Clin. Pathol.* **38:** 639-643.

23. Vongsorasak, L. and *Svasti, J.* (1985) Inhibition of Liquefaction and Protein Degradation of Human Semen by Gossypol. *Int. J. Androl.* **8**: 472-486.

24. Vongsorasak, L. and *Svasti, J.* (1986) Gossypol Prevents Activation of Purified Proenzyme of Human Seminal Plasma Acidic Proteinase. *Biochim. Biophys. Acta.* **883**: 271-276.

25. Boontrakulpoontawee, P., *Svasti, J.*, Fucharoen, S. and Winichagoon, P. (1987) Identification of Hb Lepore-Washington-Boston in Association with HbE in a Thai Female. *Hemoglobin* **11**: 309- 316.

26. Yongsuwan, S., *Svasti, J.* and Fucharoen, S. (1987) Decreased Heat Stability Found in Hemoglobin Queens. *Hemoglobin* **11**: 567-570.

27. *Svasti, J.*, Surarit, R., Srisomsap, C., Pravatmuang, P., Wasi, P., Fucharoen, S., Blouquit, Y., Galacteros, F., and Rosa, J. (1993) Identification of Hb Anantharaj [α 11(A9)Lys→Glu] as Hb J- Wenchang-Wuming [α11(A9)Lys→Gln]. *Hemoglobin* **17**: 453-455.

28. Siriboon, W., Srisomsap, C., Winichagoon, P. Fucharoen, S., and *Svasti, J.* (1993) Identification of Hb C [β6(A3)Glu→Lys] in a Thai Male. *Hemoglobin* **17:** 419-426.

29. *Svasti, J.*, Boontrakulpoontawee, P., Yongsuwan, S., Sarikaputi, M., Siriboon, W., Srisomsap, C., Fucharoen, S., Winichagoon, P., Pravatmuang, P., and Surarit, R. (1994) Structural Analysis of Proteins in Thailand: Identification of abnormal hemoglobins. *Pure & Appl. Chem*. **66:** 105-110.

30. Suginta W. and *Svasti, M.R.J.* (1995) Purification and Properties of β-Galactosidase from *Hibiscus sabdariffa* L. var. altissima*. J. Sci. Soc. Thailand.* **21:** 183-186.

31. Sermsuvityawong, K., *Svasti, M.R.J.*, Sawangareetrakul, P., Kisamanonta, P. and Chulavatnatol, M. (1995)) Aggregation of Cassava Linamarase. *J. Sci. Soc. Thailand.* **21:** 283-292.

32. Surarit, R., *Svasti, M.R.J.*, Srisomsap, C., Suginta, W., Khunyoshyeng, S., Nilwarangkoon, S., Harnsakul, P., and Benjavongkulchai, E. (1995) Screening of Glycohydrolase Enzymes in Thai Plant Seeds for Potential Use in Oligosaccharide Synthesis. *J. Sci. Soc. Thailand.* **21**: 293-303.

33. Srisomsap, C., *Svasti, J.,* Surarit, R., Champattanachai, V., Boonpuan, K., Sawangareetrakul, P., Subhasitanont, P. and Chokchaichamnankit, D. (1996) Isolation and Characterization of an Enzyme with β-D-Glucosidase/β-D-Fucosidase Activities from *Dalbergia cochinchinensis* Pierre. *J. Biochem.* **119:** 585-590.

34. Benjavongkulchai, E., Surarit, R., Bucke, C. and *Svasti, J.* (1996) Synthesis of Oligosaccharides by Dextransucrase from a Local Strain of *Streptococcus mutans. J. Sci. Soc. Thailand* **22***:* 105-110.

35. Surarit, R., Matsui, H., Chiba, S., *Svasti, J.* and Srisomsap, C. (1996)) Chemical Modification of β-Glucosidase/β-Fucosidase from *Dalbergia cochinchinensis* Pierre by Conduritol B Epoxide. *Biosci. Biotech. Biochem.* **60:** 1265-1268.

36. Surarit, R., Matsui, H., Chiba, S., *Svasti, J.* and Srisomsap, C. (1997) Evidence for the Presence of a Single Active Site in β-D-Fucosidase/β-D-Glucosidase from *Dalbergia cochinchinensis* Seeds. *Biosci. Biotech. Biochem.* **61:** 93-95.

37. Wongwithoonyaporn, P., Bucke, C., and *Svasti, J.* (1998) Separation and Specificity Study of α-Mannosidases from *Vigna umbellata. Biosci. Biotech. Biochem.* **62:** 613-621.

38. Itchayanan, D., *Svasti, J.,* Srisomsap, C.,Winichagoon, P., and Fucharoen, S. (1999) Hb G-Coushatta [β22(B4)Glu→Ala] in Thailand. *Hemoglobin* **23:** 69-72.

39. *Svasti, J.,* Srisomsap, C., Techasakul, S. and Surarit, R. (1999) Dalcochinin-8'-O-β-D-Glucoside and its β-Glucosidase Enzyme from *Dalbergia cochinchinensis***.** *Phytochem.* **50:** 739-743.

40. Itchayanan, D., *Svasti, J.,* Srisomsap, C., Winichagoon, P., and Fucharoen, S. (1999) Identification of Hb J Buda [α61(E10)Lys→Asn] in a Thai Female. *Hemoglobin* **23:** 183-186.

41. Srisomsap, C., Subhasitanont, C., Techasakul, S., Surarit, R., and *Svasti, J.* (1999) Synthesis of Homo and Hetero-Oligosaccharides by Thai Rosewood β-Glucosidase. *Biotechnol. Letts.* **21:** 947-951.

42. *Svasti, J.*, Srisomsap, C., Itchayan, D., Limwuttiwong, A., Siriboon, W., Winichagoon, P. and Fucharoen, S. (1999) Recent Studies on the Abnormal Hemoglobins Found in Thailand. *J. Chem. Soc. Pak*. **21:** 281-288.

43. Yodsowan, B., *Svasti, J.*, Srisomsap, C., Winichagoon, P., and Fucharoen, S. (2000) Hb Siam [α15(A13)Gly→Arg] is a GGT→CGT Mutation in the α1-Gene. *Hemoglobin* **24:** 71-74.

44. Lirdprapamongkol, K. and *Svasti, J.* (2000) Alkyl Glucoside Synthesis using Thai Rosewood β-Glucosidase. *Biotechnology Letters.* **22**: 1889-1994

45. Cairns, J.R.K., Champattanachai, V., Srisomsap, C., Wittman-Liebold, B., Thiede, B., and *Svasti, J.* (2000) Sequence and recombinant expression of Thai Rosewood β-glucosidase/β-fucosidase, a glycosylated family 1 glycosyl hydrolase. *J. Biochem*. **128:** 999 –1008.

46. Imai, K., Tientadakul, P., Opartkiattikul, N., Luenee, P., Winichagoon, P., *Svasti. J.* and Fucharoen, S. (2001) Detection of Haemoglobin Variants and Inference of Their Functional Properties by Complete Oxygen Dissociation Curve Measurements. *Brit. J. Haematol.* **112**: 483-7.

47. Svasti, S., Yodsowon, B., Sriphanich, R., Winichagoon, P., Boonkhan, P., Suwanban, T., Sawangareetrakul, P., Srisomsap, C., Ketudat-Cairns, J.R., *Svasti, J.* and Fucharoen, S. (2001) Association of Hb Hope [β136(H14)Gly→Asp] and Hb H Disease. *Hemoglobin* **25:** 429-435.

48. *Svasti, J.*, Srisomsap, C., Wasant, P., Pangkanon, S., Tiensuwan, M., Boonpuan, K., Sawangareetrakul, P. and Liammongkolkul, S. (2001) Normal Plasma Free Amino Acid Levels in Thai Children. *J. Med. Assoc. Thailand.* **84:** 1558-1568.

49. Arthan, D., *Svasti, J.,* Kittakoop, P., Pittayakhachonwut, D., Tanticharoen, M., and Thebtaranonth, Y. (2002) Antiviral isoflavonoid sulfate and steroidal glycosides from the fruits of *Solanum torvum. Phytochemistry* **59**: 459-463.

50. Turbpaiboon, C., Svasti, S., Sawangareetakul, P., Winichagoon, P., Srisomsap, C., Siritanaratkul, N., Wilairat, P., and *Svasti, J.* (2002) Hb Siam [α-15(A13)Gly(*G*GT)→Arg(*C*GT)] is a typical alpha hemoglobinopathy without alpha thalassemic effect. *Hemoglobin* **26:** 77-81.

51. Sawangareetrakul, P., Svasti, S., Yodsowon, B., Winichagoon, P., Srisomsap, C., *Svasti, J.*, and Fucharoen, S. (2002) Double Heterozygosity for Hb Pyrgos[β (EF7)Gly→Asp] and Hb E [β26(B8)Glu→Lys] Found in Association with α-Thalassemia. *Hemoglobin* **26:** 191-196.

52. Srisomsap, C., Subhasitanont, P., Otto, A., Mueller, E.-C., Punyarit, P. Wittmann-Liebold, B. and *Svasti, J.* (2002) Detection of Cathepsin B Up-Regulation in Neoplastic Thyroid Tissues by Proteomic Analysis. *Proteomics* **2**: 706-712.

53. Ngiwsara, L., Srisomsap, C., Winichagoon, P., Fucharoen, S. and *Svasti, J. (*2003) Hb Kodaira II [β146(HC3)His→Gln] Detected In Thailand. *Hemoglobin* **27**: 37-39.

54. Lirdprapamongkol, K., Mahidol, C., Thongnest, S., Prawat, H., Ruchirawat, S., Srisomsap, C., Surarit, R., Punyarit, P., and *Svasti, J.* (2003) Anti-metastatic Effects of Aqueous Extract of *Helixanthera parasitica. J. Ethnopharmacol.* **86**: 253-256.

55. *Svasti, J.*, Phongsak, T., Sarnthima, R. (2003) Transglucosylation of Tertiary Alcohols using Cassava β-Glucosidase. *Biochem. Biophys. Res. Commun*. **305**: 470-475.

56. Champattanachai, V., Cairns, J.R.K., Shotelersuk, V., Keeratichamroen, S., Sawangareetrakul, P., Srisomsap, C., Kaewpaluek, V. and *Svasti, J.* (2003) Novel

mutations in a Thai patient with methylmalonic acidemia. *Molec. Genet. Metab.* **79:** 300-302.

57. Opassiri, R., Cairns, J.R.K., Akiyama, T., Wara-Aswapati, O., *Svasti, J.* and Esen, E. (2003) Characterization of a rice β-glucosidase highly expressed in flower and germinating shoot. *Plant Science* **165**: 627-638.

58. Srisomsap, C., Sawangareetrakul, P., Subhasitanont, P., Panichakul, T., Keeratichamroen, S., Lirdprapamongkol, K., Chokchaichamnankit, D., Sirisinha, S. and *Svasti, J*. (2004) Proteomic Analysis of Cholangiocarcinoma Cell Line. *Proteomics* **4**: 1135-1144.

59. Ngiwsara, L., Srisomsap, C., Winichagoon, P., Fucharoen, S. and *Svasti, J.* (2004) Two Cases of Compound Heterozygosity for Hemoglobin Hekinan α(27); Glu-Asp] and α-Thalassemia in Thailand. *Hemoglobin* **28**: 145-150.

60. Opassiri, R., Hua, Y., Wara-Aswapati, O., Akiyama, T., *Svasti, J*., Esen, A. and Ketudat Cairns, J.R. (2004) β-Glucosidase, exo-β-glucanase and pyridoxine transglucosylase activities of rice BGlu1. *Biochem. J.* **379:** 125-131.

61. Chaiyen, P., Sucharitakul, J*., Svasti, J.,* Entsch, B., Massey, V. and Ballou, D.P.(2004) Use of 8-Substituted-FAD Analogs to Investigate the Hydroxylation Mechanism of the Flavoprotein 2-Methyl-3-hydroxypyridine-5-carboxylic Acid Oxygenase. *Biochemistry* **43**: 3933-3943.

62. Suginta, W., Songsiriritthigul, C., Prinz, H., Estibeiro, P., Duncan, R.R., *Svasti, J*. and Fothergill-Gilmore, L.A. (2004) An endochitinase A from *Vibrio carchariae*: cloning, expression, mass and sequence analyses, and chitin hydrolysis. *Arch. Biochem. Biophys*. **424**: 171-180.

63. Kubota, M., Tsuji, M., Nishimoto, M., Wongchawalit, J., Okuyama, M., Mori, H., Matsui, M., Surarit, R., *Svasti, J.,* Kimura, A. and Chiba, A.*(*2004*)* Localization of α-Glucosidases in Organs of European Honeybees, *Apis mellifera* L., and the Origin of of α-Glucosidase in Honey. *Biosci. Biotechnol. Biochem.* **68***:* 2346-2352.

64. Ngiwsara, L., Srisomsap, C., Winichagoon, P., Fucharoen, S., Sae-Ngow, B., and *Svasti, J.* (2005) Hb Kurosaki [α7(A5)Lys-Glu(*A*ag-*G*ag)]: an α2-Globin Gene Mutation Found In Thailand. *Hemoglobin* **29(**2):155-9.

65. Lirdprapamongkol, K., Sakurai, H., Kawasaki, N., Choo, M.-K., Saitoh, Y., Aozuka, Y., Singhirunnusorn, P., Ruchirawat, S., *Svasti, J.* and Saiki, I. (2005) Vanillin Suppresses *In vitro* Invasion and *In vivo* Metastasis of Mouse Breast Cancer Cells. *Eur. J. Pharm. Sci.* **25**: 57-65.

66. Wasant, P., Vatanavichien, N., Srisomsap, C., Sawangareetrakul, P., Liammongkolkul, S. and *Svasti, J.* (2005) Retrospective Study of Patients with Suspected Inborn Errors of Metabolism at Siriraj Hospital, Bangkok, Thailand (1997-2001) *J. Med. Assoc. Thai* **88:** 746-753.

67. Suginta, W., Vongsuwan, A., Songsiriritthigul, C., *Svasti, J.*, and Prinz, H. (2005) Enzymatic Properties of Chitinase A from *Vibrio carchariae* and the Active Site Mutants as Revealed by HPLC-Mass Spectrometry. *FEBS Journal* **272**: 3376-3386.

68. Buranaprapuk, A.*,* Chaivisuthangkura, P., *Svasti, J.,* and Kumar, C. V. (2005) Efficient Photocleavage of Lysozyme by a New Chiral Probe. *Letts. Org. Chem.* **2**(6): 554-558.

69. Wasant, P., Viprakasit, V., Srisomsap, C., Liammongkolkul, S., Ratanarak, P., Sathienkijakanchai, and *Svasti, J.* (2005) Argininosuccinate Synthetase Deficiency: Mutation Analysis in 3 Thai patients. *Southeast Asian J. Trop. Med. Pub. Health* **36(**3): 757-61.

70. Chuankhayan, P., Hua, Y., *Svasti, J.*, Sakdarat, S., Sullivan, P.A. and Cairns, J.R.K. (2005) Purification of an Is oflavonoid 7-O-β-apiosyl-glucoside β-glycosidase and its substrates from *Dalbergia nigrescens* Kurz. *Phytochemistry*. **66**(16): 1880-1889.

71. Hommalai, G., Chaiyen, P., and *Svasti, J.* (2005) Studies on the Transglucosylation Reactions of Cassava and Thai Rosewood β-Glucosidases using 2-Deoxy-2-fluoro-glycosyl Enzyme Intermediates. *Arch. Biochem. Biophys.* **442**(1): 11-20.

72. Cairns, J.R.K., Keeratichamroen, S., Sukcharoen, S., Champattanachai, V., Ngiwsara, L., Lirdprapamongkol, K., Liammongkolkul, S., Srisomsap, C., Surarit, R., Wasant, P. and *Svasti, J.* (2005) The Molecular Basis Of Mucopolysaccharidosis Type I In Two Thai Patients. *Southeast Asian J. Trop. Med. Pub. Health* 36(5): 1308-12.

73. *Svasti, J.*, Srisomsap, C., Subhasitanont, P., Keeratichamroen, S., Chokchaichamnankit, D., Ngiwsara, L., Chimnoi, N., Pisutjaroenpong, S., Techasakul, S., and Chen, S.T. (2005) Proteomic Profiling of Cholangiocarcinoma Cell Line Treated with Pomiferin from *Derris malaccensis. Proteomics* **5:** 4504-9.

74. Mahakhan, P., Chobvijuk, C., Ngmjarearnwong, M., Trakulnalermsai, S., Bucke, C., *Svasti, J.*, Kanlayakrit, W. and Chitradon, L. (2005) Molecular Hydrogen Production by a Thermotolerant *Rubrivivax Gelatinosus* Using Raw Cassava Starch as an Electron Donor. *ScienceAsia* **31**(4)): 415-24.

75. Arthan, D., Kittakoop, P., Esen, A., and *Svasti, J.*(2006) Furostanol Glycoside 26-O-β-Glucosidase from the Leaves of *Solanum torvum*. *Phytochemistry*, **67**(1): 27-33.

76. Jintaridth, P., Srisomsap, C., Vichittumaros, K. Kalpravidh, R.W., Winichagoon, P. Fucharoen, S., *Svasti, M.R.J.* and Kasinrerk, W. (2006) Chicken Egg Yolk Antibodies Specific for the Gamma(γ) Chain of Human Hemoglobin for Diagnosis of Thalassemia. *Int. J. Hematol.* **83**: 408-414.

77. Thammasirirak, S., Ponkham, P., Preecharram, S., Khanchanuan, R., Phonyothee, P., Daduang, S., Srisomsap, C., Araki, T. and *Svasti, J.* (2006) Purification, characterization and comparison of reptile lysozymes. *Comp. Biochem. Physiol. Part C.* **143:** 209-217.

78. Toonkool, P. Metheenukul, P., Sujiwattanarat, P., Paiboon, P., Tongtubtim, N., Ketudat-Cairns, M., Ketudat-Cairns, J. and *Svasti, J.* (2006) Expression and purification of dalcochinase, a β-glucosidase from *Dalbergia cochinchinensis* Pierre, in yeast and bacterial hosts. *Protein Exp. Purif.* **48:** 195-204.

79. Chuenchor, W., Pengthaisong, S., Yuvaniyama, J., Opassiri, R., *Svasti, J.* and Cairns, J.R.K. (2006) Purification, crystallization and preliminary X-ray analysis of rice BGlu1 β-glucosidase with and without an inhibitor, 2-Deoxy-2-fluoro-β-D-glucoside. *Acta Crystallog. F.* **62:** 798-801.

80. Boonclarm, D., Sornwatana, T., Arthan, D., Kongsaeree, P. and *Svasti, J.* (2006) A β-glucosidase catalyzing specific hydrolysis of an iridoid β-glucoside from *Plumeria obtusa* flowers. *Arch. Biochim. Biophys. Sinica* **38**: 563-570.

81. Wattanasirichaigoon, D., *Svasti, J*., Cairns, J.R.K., Tangnararatchakit, K., Visudtibhan, A., Keeratichamroen, S., Ngiwsara, L., Khowsathit, P., Onkoksoong, T., Lekskul, A., Mongkolsiri, D., Jariengprasert. C., Thawil, C., and Ruencharoen, S. (2006) Clinical and molecular characterization of an extended family with Fabry disease. *J. Med. Assoc. Thailand* **89**(9): 1528-1535.

82. Wongchawalit, J., Yamamoto, T., Nakai, H., Kim, Y.M., Sato, N., Nishimoto, M., Okuyama, M., Mori, H., Saji, O., Chanchao, C., Wongsiri, S., Surarit, R., *Svasti, J.,* Chiba, S., and Kimura. A. (2006) Purification and Characterization of alpha-Glucosidase I from Japanese Honeybee (*Apis cerana* japonica) and Molecular Cloning of Its cDNA. *Biosci. Biotechnol. Biochem.* **70**: 2889-2898.

83. Subhasitanont, P., Srisomsap, C., Punyarit, P., and *Svasti, J.* (2006) Proteomic Studies of Galectin-3 Expression in Human Thyroid Diseases by Immunodetection. *Cancer Genomics and Proteomics* **3:** 389-394.

84. Sangvanich, P., Kaeothip, S., Srisomsap, C., Thiptara, P., Petsom, A., Boonmee, A., *Svasti, J.* (2007) Hemagglutinating activity of Curcuma plants. *Fitoterapia* **78:** 29-31.

85. Srisomsap, C., Subhasitanont, P., Sawangareetrakul, P., Chokchaichamnankit, D., Ngiwsara, L., Chiablaem, K., and *Svasti, J.* (2007) Comparison of Membrane-Associated Proteins in Human Cholangiocarcinoma and Hepatocellular Carcinoma Cell lines. *Proteomics: Clinical Applications* **1:** 89-106.

86. Chuankhayan, P., Rimlumduan, T., *Svasti, J.* and Cairns, J.R.K. (2007) Hydrolysis of Soybean Isoflavonoid Glycosides by *Dalbergia* β-Glucosidases. *J. Agric. Food Chem.* **55:** 2407-2412.

87. Keeratichamroen, S., Cairns, J.R.K., Sawangareetrakul, P., Liammongkolkul, S., Champattanachai, V., Srisomsap, C., Kamolsilp, M., Wasant, P., and *Svasti, J.* (2007) Novel mutations found in two genes of Thai patients with isolated methylmalonic acidemia. *Biochem. Genet.* **45:** 421-430.

88. Thammasirirak, S., Preecharram, S., Ponkham, P., Daduang, S., Araki, T., and *Svasti, J.* (2007) New variant of quail egg white lysozyme identified by peptide mapping. *Comp. Biochem. Physiol. B*. **147:** 214-314.

89. Suginta, W., Kobdej, A., Opassiri, R., *Svasti, J.*, and Songsiriritthigul, C. (2007) Roles of the active-site aromatic residues on substrate hydrolysis of *Vibrio carchariae* chitinase A. *Biochim. Biophys. Acta*. **1770:** 1151-1160.

90. Hommalai, G., Withers, S.G., Chuenchor, W., Cairns, J.R.K and *Svasti, J.*(2007) Enzymatic synthesis of cello-oligosaccharides by rice BGlu1 β-glucosidase glycosynthase mutants. *Glycobiology* **17:** 744-753.

91. Sucharitakul, J., Phongsak, T., Entsch, B., *Svasti, J.,* Chaiyen, P., and Ballou, D.P. (2007) Kinetics of a Two-Component p-Hydroxyphenylacetate Hydroxylase Explain How Reduced Flavin Is Transferred from the Reductase to the Oxygenase. *Biochemistry* **46**: 8611-8623.

92. Suwannarat, P., Keeratichamroen, S., Wattanasirichaigoon, D., Ngiwsara, L., Ketudat Cairns, J. R., *Svasti, J.*, Visudtibhan, A., and Pangkanon, S.(2007) Molecular characterization of type 3(neuronopathic) Gaucher disease in Thai patients. *Blood Cells, Molecules & Diseases.* **39**(3):348-52.

93. Nishimoto M., Mori, H., Moteki, T., Takamura, Y., Iwai, G., Miyaguchi, Y., Okuyama, M., Wongchawalit, J., Surarit, R., *Svasti, J.*, Kimura, A., Chiba, S. (2007) 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. Biotechnol. Biochem.* **71**: 1703-1716.

94. Suadee, C., Nijvipakul, S., *Svasti, J.*, Entsch, B., Ballou, D.P., and Chaiyen, P. (2007) Luciferase from *Vibrio campbellii* is more thermostable and binds reduced FMN better than its homologues. *J. Biochem*. *(Tokyo)* **142**(4): 539-52.

95. Chuankhayan, P., Rimlumduan, T., Tantanuch, W., Mothong, N., Kongsaeree, P.T., Metheenukul, P., *Svasti, J.*, Jensen, O.N. and Cairns, J.R.K. (2007) Functional and Structural Differences Between Isoflavonoid β-Glycosidase from Dalbergia sp. *Arch. Biochem. Biophys.* **468**(2): 205-216.

96. Sawangareetrakul, P., Srisomsap, C., Chokchaichamnankit, D. and *Svasti, J.* (2008) Galectin-3 Expression in Human Papillary Thyroid Carcinoma. *Cancer Genomics and Proteomics* **5:** 117-122.

97. Lirdprapamongkol, K., Kramb, J.-P., Chokchaichamnankit, D., Srisomsap, C., Surarit, R., Sila-asna, M., Bunyaratvej, A., Dannhardt, G. and *Svasti, J.* (2008) Juice of *Eclipta prostrata* Inhibits Cell Migration *in vitro* and Exhibits Anti-angiogenic Activity i*n vivo. In Vivo.* **22**: 363-368.

98. Chuenchor, W., Pengthaisong, S., Robinson, R.C., Yuvaniyama, J., Oonanant, W., Bevan, D.R., Esen, A., Chen, C.-J., Opassiri, R., *Svasti, J.* and Ketudat Cairns, J.R. (2008) Structural Insights into Rice BGlu1 β-Glucosidase Oligosaccharide Hydrolysis and Transglycosylation. *J. Mol. Biol.* **377:** 1200-1215.

99. Arthan, D., Sithiprom, S., Thima, K., Limmatvatirat, C., Chavalitshewinkoon-Petmitr, P., and *Svasti, J.* (2008) Inhibitory effects of Thai plants beta-glycosides on *Trichomonas vaginalis*. *Parasitol Res*. **103(**2): 443-8.

100. Keeratichamroen, S. Ketudat Cairns, J.R., Wattanasirichaigoon, D., Wasant, P., Ngiwsara, L., Suwannarat, P., Pangkanon, S., Tanpaiboon, P., Rujirawat, T.and *Svasti, J.* (2008) molecular analysis of the iduronate-2-sulfatase gene in Thai Patients with Hunter syndrome. *J. Inher.Metab. Dis*. Online. DOI 10.1007/s10545-008-0876-z

101. Buranaprapuk, A., Malaikaew, Y., *Svasti, J.*, Kumar, C.V. (2008) Chiral protein scissors activated by light: recognition and protein photocleavage by a new pyrenyl probe. *J. Phys Chem B.* **112**(30): 9258-65.

102. Kitdamrongsont, K., Pothavorn, P., Swangpol, S., Wongniam, S., Atawongsa, K., *Svasti, J.* and Somana, J. (2008) Anthocyanin Components of Wild Bananas in Thailand. *J. Agric. Food Chem.* **56**(22): 10853-10857• DOI: 10.1021/jf8018529.

103. Thaipratum, R., Melis, A., *Svasti, J.* and Yokthongwattana, K. **(**2009) Analysis of Non-photochemical Energy Dissipating Processes in *Dunaliella salina* (Green Algae) Wild Type and *zea1*, a Mutant Constitutively Accumulating Zeaxanthin. *J. Plant Res.* **122:** 465-476. DOI 10.1007/s10265-009-0229-5.1

104. Lirdprapamongkol, K., Kramb, J.-P., Suthiphongchai, T., Surarit, R., Srisomsap, C., Dannhardt, G., and *Svasti, J.* (2009) Vanillin Suppresses Metastatic Potential of Human Cancer Cells Through PI3K Inhibition and Decreases Angiogenesis *In vivo*. *J. Agric. Food Chem.* **57(**8): 3055-3063• DOI: 10.1021/jf803366f.

105. Chokchaichamnankit, D., Subhasitanont, P., Parichartanakul, N. M., Sangvanich, P., *Svasti, J.* and Srisomsap C. (2009) Proteomic Alterations During Dormant Period of *Curcuma longa* Rhizomes. *J. Proteomics & Bioinformatics* **02:** 380-87.

106. Arunchaipong, K., Sattayasai, N., Sattayasai, J., and *Svasti, J.* (2009) A Biotin-Coupled Bifunctional Enzyme, Exhibiting Both Glutamine Synthetase Activity and Glutamate Decarboxylase Activity. *Current Eye Res* **34**(10): 809-18.

107. Sarnthima, R., Khammuang, S., *Svasti, J.* (2009) Extracellular Ligninolytic Enzymes by *Lentinus polychrous* Lev. under Solid-State Fermentation of Potential Agro-industrial Wastes and Their Effectiveness in Decolorizing Indigo Carmine. *Biotechnol. Bioprocess Eng.* **14**: 513-522. DOI 10.1007/s12257-008-0262-6.

108. Rubporn, A., Srisomsap, C., Subhasitanont, P., Chokchaichamnankit, D., Chiablaem, K., *Svasti, J.*, and Sangvanich, P. (2009) Comparative Proteomic Analysis of Lung Cancer Cell Line and Lung Fibroblast Cell Line. *Cancer Genomics & Proteomics* **6**(4):229-37.

109. Yokthongwattana, K., Sriariyanun, M., Ekaratcharoenchai, P. and *Svasti, J.* (2010) Characterization of fatty acids and proteins associated with the xanthophyll-enriched membrane fraction isolated from the thylakoid membranes of irradiance-stressed *Dunaliella salina. J. Appl. Phycol.* **22**(2): 147-155.

110. Ponkham, P., Daduang, S., Kitimasak, W., Krittanai, C., Chokchaichamnankit, D., Srisomsap, C., *Svasti, J.,* Kawamura, S., Araki, T. and Thammasirirak, S. (2010) Complete amino acid sequence of three reptile lysozymes. *Comp Biochem. Physiol*. **151**(1):75-83.

111. Srisomsap, C., Sawangareetrakul, P., Subhasitanont, P., Chokchaichamnankit, D., Chiablaem, K., Bhudhisawasdi, V., Wongkham, S., and *Svasti, J*. (2010) Proteomic Studies of Cholangiocarcinoma and Hepatocellular Carcinoma Cell Secretomes. *J. Biomed. Biotechnol.* doi:10.1155/2010/437143.

112. Preecharram, S., Jearranaiprepame, P., Daduang, S., Temsiripong, Y., Somdee, T., Fukamiz, T*., Svasti, J*., Araki, T. and Thammasirirak, S. (2010) Isolation and characterisation of crocosin, an antibacterial compound from crocodile (*Crocodylus siamensis)* plasma. *Animal Sci J.* **81**(3):393-401.

113. Wattanasiriwech, S., Wattanasiriwech, D. and *Svasti, J.* (2010) Production of amorphous silica nanoparticles from rice straw with microbial hydrolysis pretreatment. *Journal of Non-Crystalline Solids* **356:** 1228-1232.

114. Lirdprapamongkol, K., Sakurai, H., Suzuki, S., Koizumi, K., Prangsaengtong, O., Viriyaroj, A., Ruchirawat, S., *Svasti, J.* and Saiki, I. (2010) Vanillin Enhances TRAIL-Induced Apoptosis in Cancer Cells through Inhibition of NF-kappaB Activation. *In Vivo***. 24**: 501-506.

115. Soisuwan, S. Warisnoicharoen, W., Lirdprapamongkol, K. and *Svasti, J.* (2010) Eco-Friendly Synthesis of Fucoidan-Stabilized Gold Nanoparticles. *Amer. J. Appl. Sci* **7**: 1038-1042.

116. Peng L., Kapp, E.A., Fenyö, D., Kwon, M.S., Jiang, P., Wu, S., Jiang, Y., Aguilar, M.I., Ahmed, N., Baker, M.S., Cai, Z., Chen, Y.J., Van Chi, P., Chung, M.C., He, F., Len, A.C., Liao, P.C., Nakamura, K., Ngai, S.M., Paik, Y.K., Pan, T.L., Poon, T.C., Hosseini Salekdeh, G., Simpson, R.J., Sirdeshmukh, R., Srisomsap, C., *Svasti, J.*, Tyan,

Y.C., Dreyer, F.S., McLauchlan, D., Rawson, P. and Jordan, T.W. (2010) The Asia Oceania Human Proteome Organisation Membrane Proteomics Initiative: Preparation and characterization of the carbonate-washed membrane standard. *Proteomics.* **10 (**22): 4142-4148.

117. Sojikul, P., Kongsawadworakul, P., Viboonjun, U., Thaiprasit, J., Intawong, B., Narangajavana, J. and *Svasti, M.R.J.* (2010) AFLP-based transcript profiling for cassava genome-wide expression analysis in the onset of storage root formation. *Physiologia plantarum* **140** (2):189-298.

118. Kongsaeree, P.T., Ratananikom, K., Choengpanya, K., Tongtubtim, N., Sujiwattanarat, P., Porncharoennopa, C., Onpium, A., and *Svasti, J.* (2010) Substrate specificity in hydrolysis and transglucosylation by family 1-β-glucosidases from cassava and Thai rosewood. *J. Molec. Catal. B.* **67** (3-4): 257-265.

119. Pruksakorn, D., Lirdprapamongkol, K., Chokchaichamnankit, D., Subhasitanont, P., Chiablaem, K., *Svasti, J.*, and Srisomsap, C. (2010) Metabolic alteration of HepG2 in scaffold-based 3D culture: proteomic approach. *Proteomics*. **10(**21)): 3896-3904.

120. Pothavorn, P., Kitdamrongsont, K., Swangpol, S., Wongniam, S., Atawongsa, K., *Svasti, J.*, Somana, J. (2010) Sap phytochemical compositions of some bananas in Thailand. *J. Agric. Food Chem.* **58** (15**):** 8782-8787.

121. Banjerdpongchai, R., Kongtawelert, P., Khantamat, O., Srisomsap, C., Chokchaichamnankit, D., Subhasitanont, P. and *Svasti, J.* (2010) Mitochondrial and endoplasmic reticulum stress pathways cooperate in zearalenone-induced apoptosis of human leukemic cells. *J. Hematol. & Oncol*. **3**:50 doi:10.1186/1756-8722-3-50.

122. Chuenchor, W., Pengthaisong, S., Robinson, R.C., Yuvaniyama, J., *Svasti, J.* and Ketudat Cairns, J.R. (2011) The structural basis of oligosaccharide binding by rice BGlu1 beta-glucosidase*. J. Struct. Biol*. **173:** 169-179.

123. Pata, S., Yaraksa, N., Daduang, S., Temsiripong, Y., *Svasti,* J., Araki, T., Thammasirirak, S. (2011) Characterization of the novel antibacterial peptide Leucrocin from crocodile (*Crocodylus siamensis*) white blood cell extracts. *Devel. & Comp. Immunol*. **35:** 545-553.

124. Suwannateep, N., Banlunara, W., Wanichwecharungruang, S.P., Chiablaem, K., Lirdprapamongkol, K., *Svasti, J.* (2011) Mucoadhesive curcumin nanospheres: Biological activity, adhesion to stomach mucosa and release of curcumin into the circulation. *J. Controlled Release*. **15:** 176-182.

125. Winayanuwattikun, P., Kaewpiboon, C., Piriyakananon, K., Chulalaksananukul, W., Yongvanich, T. and *Svasti, J.* (2011) Immobilized lipase from potential lipolytic microbes for catalyzing biodiesel production using palm oil as feedstock. *African J. Biotechnol*. **10**(9): 1666-1673.

126. Malaikaew, P., *Svasti, J.,* Kumar, C.V. and Buranaprapuk, A. (2011) Photocleavage of Avidin by a New Pyrenyl Probe. *J. Photochem.Photobiol B.* **103**: 251-255.

127. Kanintronkul, Y., Worayuthakarn, R., Thasana, N., Winayanuwattikun, P., Pattanapanyasat, K., Surarit, R. Ruchirawat, S. and *Svasti, J.* (2011) Overcoming Multidrug Resistance in Human Lung Cancer with Novel Benzo[a]quinolizin-4-ones. *Anticancer Research* **31**(3): 921-927.

128. Sriiam, S., Leecharoenkiat, A., Lithanatudom, P. , Wannatung, T. , Svasti, S., Fucharoen, S., *Svasti, J.*, Chokchaichamnankit, D., Srisomsap, C., Smith, D.R. (2011) Proteomic analysis of Hemoglobin H-Constant Spring(Hb H-CS) erythroblasts. *Blood Cells, Molecules, and Diseases*. **48**: 77–85.

129. Mohamad, Z.A., Chokchaichamnankit, D, Bhinja, K Paricharttanakul, N.M., *Svasti, J.* Srifah, P., Srisomsap, C. (2011) Proteomic analysis of Chinese kale (*B. alboglabra*) leaves during growth. *J. Integ.Omics* **1**:102-107.

130. Pengthaisong, S., Withers, S.G., Kuaprasert, B., *Svasti, J.*, and Cairns, J.R.K. (2012) The role of the oligosaccharide binding cleft of rice BGlu1 in hydrolysis of cellooligosaccharides and in their synthesis by rice BGlu1 glycosynthase. *Protein Science* **21:** 362-372.

131. Cairns, J.R.K., Pengthaisong, P., Luang, S., Sansenya, S., Tankrathok, A. and *Svasti, J.* (2012) Protein-carbohydrate Interactions Leading to Hydrolysis and Transglycosylation in Plant Glycoside Hydrolase Family 1 Enzymes. *J. Applied Glycoscience* **59:** 51-62.

132. Weeraphan, C., Srisomsap, C., Chokchaichamnankit, D., Subhasitanont, P., Hatairaktham, S., Charoensakdi, R., Panichkul, N., Siritanaratkul, N., Fucharoen, S., Svasti, J., and Kalpravidh, R. (2012) Role of Curcuminoids in Ameliorating Oxidative Modification in β-thalassemia/Hb E Plasma Proteome. *J. Nutr. Biochem.* http://dx.doi.org/10.1016/j.jnutbio.2012.02.008

133. Lirdprapamongkol, K**.**, Chiablaem, K**.**, Sila-Asna, M**.**, Surarit, R**.**, Bunyaratvej, A**.**, and *Svasti, J.* **(**2012**)** Exploring stemness gene expression and vasculogenic mimicry capacity in well- and poorly differentiated hepatocellular carcinoma cell lines. *Biochem. Biophys. Res. Commun.* **422**(3):429-35.

134. Weeraphan, C., Diskul Na Ayudthaya, P., Chiablaem[1], K., Khongmanee, A., Chokchaichamnankit, D., Subhasitanont, P., *Svasti, J.* and Srisomsap, C. (2012) Effective enrichment of cholangiocarcinoma secretomes using the hollow fiber bioreactor culture system**.** *Talanta***.** http**:**//dx**.**doi**.**org/10**.**1016/j**.**talanta**.**2012**.**05**.**054.

135. Charoenwattanasatien, R., Cairns, J.R.K., Keeratichamroen, S., Sawangareetrakul, P., Tanpaiboon, P. Wattanasirichaigoon, D., Pangkanoon, S., *Svasti, J*., and Champattanachai, V. (2012) Decreasing activities and altered protein processing of human iduronate-2-sulfatase mutations demonstrated by expression in COS7 cells. *Biochem. Genet***. 50**: 990-997.

136. Phongsak, T., Sucharitakul, J., *Svasti, J.*, Ballou, D.P. and Chaiyen, P. (2012) The C-terminal domain of 4-Hydroxyphenylacetate 3-Hydroxylase from *Acinetobacter Baumannii* is an auto-inhibitory domain*. J. Biol. Chem.* **287**: 26213-26222.

137. Amornwachirabodee, K., Chiablaem, K., Wacharasindhu, S., Lirdprapamongkol, K., *Svasti, J*., Vchirawongkwin, V., and Wanichwecharungruang, S.P. (2012) Paclitaxel delivery using carrier made from curcumin derivative: Synergism between carrier and the loaded drug for effective cancer treatment. *J. Pharm. Sci.* DOI: 10.1002/jps.23263

138. Sakulterdkiat, T., Srisomsap, C., Udomsangpetch, R., *Svasti, J.* and Lirdprapamongkol**,** K**. (**2012**)** Curcumin Resistance Induced by Hypoxia in HepG2 Cells is Mediated by Multidrug Resistance-Associated Proteins**.** *Anticancer Research* **12:** 5337-5342**.**

139. Kaewpiboon, C., Lirdprapamongkol, K., Srisomsap, C., Winayanuwattikun, P., Yongvanich, T., Puwaprisirisan, P., *Svasti, J.* and Assavalapsakul, W. (2012) Studies of the in vitro cytotoxic, antioxidant, lipase inhibitory and antimicrobial activities of selected Thai medicinal plants. *BMC Complementary and Alternative Medicine.* **12**:217. doi:10.1186/1472-6882-12-217.

140. Vatanavicharn, N., Champattanachai, V., Liammongkolkul, S., Sawangareetrakul, P., Keeratichamroen, S., Cairns, J.R.K., Srisomsap, C., Sathienkijkanchai, A., Shotelersuk, V., Kamolsilp, M., Wattanasirichaigoon, D., *Svasti, J.*, and Wasant, P. (2012) Clinical and molecular findings in Thai patients with isolated methylmalonic academia. *Molec. Genet. Metab.* 106: 424-429.

141. Rodbumrer, P., Arthan, D., Uyen, U., Yuvaniyama, J., *Svasti, J.,* and Wongsaengchantra, P. (2012) Functional expression of a *Bombyx mori* cocoonase: potential application for silk degumming. *Acta Biochim. Biophys. Sinica* **44:** 974-983.

142. Weeraphan, C., Srisomsap, C., Chokchaichamnankit, D., Subhasitanont, P., Hatairaktham, S., Charoensakdi, R., Panichkul, N., Siritanaratkul, N., Fucharoen, S., *Svasti, J.*, and Kalpravidh, R. (2013) Role of Curcuminoids in Ameliorating Oxidative Modification in β-thalassemia/Hb E Plasma Proteome. *J. Nutr. Biochem.* **24(3)**: 578-585.

143. Champattanachai, V., Netsirisawan, P., Chaiyawat, P., Phueaouan, T., Charoenwattanasatien, R., Chokchaichamnankit, D., Punyarit, P., Srisomsap, C. and *Svasti, J.* (2013) Proteomic analysis and abrogated expression of O-GlcNAcylated proteins associated with primary breast cancer. *Proteomics.* DOI: 10.1002/ pmic.201200126.

144. Lirdprapamongkol, K Sakurai, H., Abdelhamed, S., Yokoyama, S., Athikomkulchai, S., Viriyaroj, A., Awale, S., Ruchirawat, S., *Svasti, J.*, and Saiki, I. (2013) Chrysin overcomes TRAIL resistance of cancer cells through Mcl-1 downregulation by inhibiting STAT3 phosphorylation. *Internat. J. Oncol.* **43:** 329 doi:10.3892/ ijo.2013.1926

145. Khammuang, S., Yuwa-amornpitak, T., *Svasti, J.*, Sarnthima, R. (2013) Copper induction of laccases by *Lentinus polychrous* under liquid-state fermentation. *Biocatalysis and Agric. Biotechnol.* DOI: 10.1016/j.bcab.2013.05.004

146. Chanthammachat, P., Promwikorn, W., Pruegsanusak, K., Roytrakul, S., Srisomsap, C., Chokchaichamnankit, D., *Svasti, J.*, Boonyaphiphat, P., Singkhamanan, K., and Thongsuksai, P. (2013) Comparative proteomic analysis of oral squamous cell carcinoma and adjacent non-tumour tissue from Thailand. *Archives Oral Biology* **58** (11)**:** 1677-1685.

147. Lirdprapamongkol, K., Sakurai, H., Abdelhamed, S. Yokoyama, S., Maruyama, T., Athikomkulchai, S., Viriyaroj, A., Awale, S., Yagita, H., Ruchirawat, S., *Svasti, J.* and Saiki, I. (2013) A flavonoid chrysin suppresses hypoxic survival and metastatic growth of mouse breast cancer cells. *Oncology Reports* **30**(5): 2357-2364. DOI: 10.3892/or.2013.2667.

148. Khongmanee, A., Lirdprapamongkol, A., Tit-oon, P., Chokchaichamnankit, D., *Svasti, J.* and Srisomsap, C. (2013) Proteomic analysis reveals important role of 14–3–3σ in anoikis resistance of cholangiocarcinoma cells. *Proteomics* **13:** 3157–3166. DOI: 10.1002/pmic.201300219.

149. Phueaouan, T., Chaiyawat, P., Netsirisawan, P., Chokchaichamnankit, D., Punyarit, P., Srisomsap, C., *Svasti, J.*, and Champattanachai, V. (2013**)** Aberrant *O*-GlcNAc-modified Proteins Expressed in Primary Colorectal Cancer. *Oncology Reports* **30**: 2929-2936**.**

150. Chiablaem, K**.**, Lirdprapamongkol, K**.**, Keeratichamroen, S**.**, Surarit, R**.**, and *Svasti, J***.** **(**2014**)** Curcumin Suppresses Vasculogenic Mimicry Capacity of Hepatocellular Carcinoma Cells through STAT3 and PI3K/AKT Inhibition**.** *Anticancer Res.* **34(**4**):** 1857**-**1864**.**

151. Raungrut, P., Wongkotsila, A., Lirdprapamongkol, K., *Svasti, J.,* Geater, S.J., Phukaoloun, M., Suwiwat, S. and Thongsuksai, P. (2014) Prognostic Significance of 14-3-3γ Overexpression in Advanced Non-Small Cell Lung Cancer. *Asian Pac J Cancer Prev.* **15**(8): 3513-3518.

152. Thongpoo, P**.**, Srisomsap, C**.**, Chokchaichamnankit, D**.**, Kitpreechavanichcd, V**.**, *Svasti, J.* and Kongsaeree, P**.**T**. (**2014**)** Purification and characterization of three β-glycosidases exhibiting high glucose tolerance from *Aspergillus nig*er ASKU28**.** *Biosci. Biotechnol. Biochem***. 78**(7):1167-1176.

153. Tit-oon, P., Chokchaichamnankit, D., Khongmanee, A., Sawangareetrakul, P., *Svasti, J.* and Srisomsap., C. (2014) Comparative secretome analysis of cholangiocarcinoma cell line in three-dimensional culture *Int. J. Oncol.* **45:** 2108-2116.

154. Chaiyawat, P**.**, Netsirisawan, P**.**, *Svasti, J.* and Champattanachai, V**. (**2014**)** Aberrant O**-**GlcNAcylated proteins**:** New perspectives in breast and colorectal cancer**.** *Frontiers in Endocrinol***. 5:** 193**.** doi**:** 10**.**3389/fendo**.**2014**.**00193**.**

155. Suthangkornkul, R., Sirichaiyakul, P., Sungvornyothin, S., Thepouyporn, A., *Svasti, J.,* and Arthan, D. (2015) Functional Expression and Molecular Characterization of *Culex quinquefasciatus* Salivary α-glucosidase (MalI*). Protein Exp. Purif.* 110: 145-150.

156. Chutipongtanate, S., Changtong, C., Weeraphan, C., Hongeng, S., Srisomsap, C. and *Svasti, J.* (2015) Syringe-push membrane absorption as a simple rapid method of urine. *Clinical Proteomics* **12:**15**.**

157. Netsirisawan, P., Chokchaichamnankit, D., Srisomsap, C., *Svasti, J.* and Champattanachai, V. (2015) Proteomic analysis reveals extracellular proteins abnormally modified by O-GlcNAcylation from breast cancer cell secretion. *Cancer Genomics and Proteomics*. **12**:201**-**209.

158. Chaiyawat, P., Chokchaichamnankit, D., Lirdprapamongkol, K., Srisomsap, C., *Svasti, J.,* and Champattanachai, V. (2015) Alteration of O-GlcNAcylation affects serine phosphorylation and regulates gene expression and activity of pyruvate kinase M2 in colorectal cancer cells. *Oncology Reports* **34**: 1933-942.

159. Sawangareetrakul, P., Cairns, J.R.K., Vatanavicharn, N., Liammongkolkul, S., Wasant, P., *Svasti, J.* and Champattanachai, V. (2015) Biochemical and Mutational Analysis of Novel Mutations Found in Thai Patients with Isolated Methylmalonic Acidemia: Classification of Defective Subgroups by Methylmalonyl-CoA Mutase Protein Levels from Patient Leukocytes. *Biochem. Genet*. DOI: 10.1007/s10528-015-9694-9.

160. Lirdprapamongkol, K., Atjanasuppat, K., Jantaree, P., and *Svasti, J.* (2015) Non-adherent culture induces paclitaxel resistance in H460 lung cancer cells via ERK-

mediated up-regulation of βIVa-tubulin. *Biochem. Biophys. Res. Commun*. **466:** 493-498.

161. Buahorm, S., Puthong, S., Palaga, T., Lirdprapamongkol, K., Phuwapraisirisan, K., *Svasti, J.* and Chanchao, C. (2015) Cardanol isolated from Thai *Apis mellifera* propolis induces cell cycle arrest and apoptosis of BT-474 breast cancer cells via p21 upregulation. *DARU Journal of Pharmaceutical Sciences* **23**:55. DOI: 10.1186/s40199-015-0138-1.

162. Pramual, S., Assavanig, A., Bergkvist, M., Batt, C.A., Sunintaboon, P., Lirdprapamongkol, K., *Svasti, J.* and Niamsiri, N. (2016) Development and characterization of bio-derived polyhydroxyalkanoate nanoparticles as a delivery system for hydrophobic photodynamic therapy agents. *J. Materials Sci.: Materials in Medicine*. **27**:40

163. Paricharttanakul, N.M., Saharat, K., Chokchaichamnankit, D., Punyarit, P., Srisomsap, C. and *Svasti, J.* (2016) Unveiling a novel biomarker panel for diagnosis and classification of well-differentiated thyroid carcinoma. *Oncology Reports* **35**: 2286-2296.

164. Rukkijakana, T., Ngiwsara, L. Lirdprapamongkol, K. *Svasti, J.,* Phetraka, N. and Chuawong, P. (2016) Synthetic 2,3-Diarylindole Induces Cell Death via Apoptosis and Autophagy in A549 Lung Cancer Cells. *Bioorganic & Medicinal Chemistry Letters* **26:**2119-2123 DOI: 10.1016/j.bmcl.2016.03.079.

165. Suthangkornkul, R., Sriworanant, P., Nakai, H., Okayama, M., *Svasti, J.*, Kimura, A., Senapin, S., and Arthan, D. (2016) A *Solanum torvum* GH3 β-glucosidase expressed in *Pichia pastoris* catalyzes the hydrolysis of furostanol glycoside. *Phytochemistry.* **127***:* 4-11.

166. Buncherd, H., Roseboom, W., Chokchaichamnankit, D., Sawangareetrakul, P., Phongdara, A., Srisomsap, C., de Jong, L., and *Svasti, J.* (2016) β-Elimination coupled with strong cation-exchange chromatography for phosphopeptide analysis. *Rapid Commun. Mass Spectrom.,* **30:** 1695-1704. doi: 10.1002/rcm.7606.

167. Seemork, J., Sansureerungsikul, T., Sathornsantikun, K., Sinthusake, T., Shigyou, K., Tree-udom, T., Jiangchareon, B., Chiablaem, K., Lirdprapamongkol, K., *Svasti, J.*, Hamada, T., Wanichwecharungruang, S. (2016) Penetration of oxidized carbon nanospheres through lipid bilayer membrane: Comparison to graphene oxide and oxidized carbon nanotubes, and effects of pH and membrane composition. *ACS Applied Materials & Interfaces.* **8**(36): 23549-23557

168. Chaiyawat, P., Weeraphan, C., Netsirisawan, P., Chokchaichamnankit, D., Srisomsap, C., *Svasti, J.*, and Champattanachai, V. (2016) Elevated O-GlcNAcylation of Extracellular Vesicle Proteins Derived from Metastatic Colorectal Cancer Cells. *Cancer Genomics & Proteomics*. **13**(5): 387-398.

169. Jinawath, N., Bunbanjerdsuk, S., Chayanupatkul, M., Ngamphaiboon, N**.**, Asavapanumas, N., *Svasti, J.* and Charoensawan, V. (2016) Bridging the Gap between Clinicians and Systems Biologists: from Network Biology to Translational Biomedical Research. *J. Translational Med.* **14**(1): 324.

170. Chutipongtanate, S., Chatchen and *Svasti, J.* (2017) Plasma Prefractionation Methods for Proteomic Analysis and Perspectives in Clinical Applications. *Proteomics: Clinical Applications*. DOI: 10.1002/prca.201600135.

171. Ruangjaroon, T. Chokchaichamnankit, D., Srisomsap, C., *Svasti, J.* and Paricharttanakul, N.M. (2017) Involvement of vimentin in neurite outgrowth damage induced by fipronil in SH-SY5Y cells. *Biochem. Biophys. Res. Commun*. http://dx.doi.org/10.1016/j.bbrc.2017.03.081

172. Jantaree, P., Lirdprapamongkol, K., Kaewsri, W., Thongsornkleeb, C., Choowongkomon, K, Atjanasuppat, K., Ruchirawat, S., and *Svasti, J.* (2017) Homodimers of vanillin and apocynin decrease metastatic potential of human cancer cells by inhibiting the FAK/PI3K/Akt signaling pathway. *J. Agric. Food Chem.* **65** (11): 2299–2306.

173. Ngiwsara, L., Rojnueangnit, K., Wattanasirichaigoon, D., Timaroon, T., Sawangareetrakul, P., Champattanachai, V., Ketudat-Cairns, J.R. and *Svasti, J.* (2017) Molecular analysis of the novel *IDS* allele in a Thai family with mucopolysaccharidosis type II: The c.928C>T(p.Gln310*) transcript is sensitive to nonsense-mediated mRNA decay. *J. Exp. Therap. Med*. **13:** 2989-2996.

174. Subhasitanont, P., Chokchaichamnankit, D., Chiablaem, K., Keeratichamroen, S., Ngiwsara, L., Paricharttanakul, N.M., Lirdprapamongkol, K., Weeraphan, C., *Svasti, J.* and Srisomsap, C.(2017) Apigenin inhibits growth and induces apoptosis in human cholangiocarcinoma cells. *Oncol. Lett.* DOI: 10.3892/ol.2017.6705.

175. Kustiawan, P.M, Lirdprapamongkol, K., Palaga, T., Puthong, S., Phuwapraisirisan, P., *Svasti, J.* and Chanchao, C. (2017) Molecular mechanism of cardol, isolated from *Trigona incisa* stingless bee propolis, induced apoptosis in the SW620 human colorectal cancer cell line. *BMC Pharmacology and Toxicology* **18**(1): 32.

176. Verathamjamras, C., Weeraphan, C., Chokchaichamnankit, D., Watcharatanyatip, K., Subhasitanont, P., Diskul-Na-Ayudthaya, P., Ming Kwan, K., Luevisadpai, P., Chutipongtanate, S., Champattanachai, V., *Svasti, J.* and Srisomsap, C. (2017) Secretomic profiling of cells from hollow fiber bioreactor reveals PSMA3 as a potential cholangiocarcinoma biomarker. *Int. J. Oncology.* **51**(1): 269-280

177. Pramual, S., Lirdprapamongkol, K., *Svasti, J.*, Bergkvist, M., Jouan-Hureaux, V., Arnoux, P., Frochot, C., Barberi-Heyob, M., Niamsiri, N. (2017) Polymer-lipid-PEG hybrid nanoparticles as photosensitizer carrier for photodynamic therapy. *J. Photochem. & Photobiol., B*. **173**:12-22.

178. Wongkanya, R., Chuysinuan, P., Pengsuk, C., Techasakul, S., Lirdprapamongkol, K., *Svasti, J.* and Nooeaid, P.(2017) Electrospinning of alginate/soy protein isolated nanofibers and their release characteristics for biomedical applications. *Journal of Science: Advanced Materials and Devices.* **2**(3): 309-316. https://doi.org/10.1016/j.jsamd.2017.05.010

179. Chaiyawat, P., Klangjorhor, J., Settakorn, J., Champattanachai, V., Phanphaisarn, A., Teeyakasem, P., *Svasti, J.* and Pruksakorn, D. (2017) Activation Status of Receptor Tyrosine Kinases as an Early Predictive Marker of Response to Chemotherapy in Osteosarcoma. *Translational Oncology.* **10**(5): 846-853.

180. Bissanum, R., Lirdprapamongkol, K., *Svasti, J.*, Navakanitworakul, R., Kanokwiroon, K. (2017) The role of WT1 isoforms in vasculogenic mimicry and metastatic potential of human triple negative breast cancer cells. *Biochem. Biophys. Res. Commun*. **494**: 256-262.

181. Kangsamaksin, T., Chaithongyot, S., Wootthichairangsan, C., Hanchaina, R., Tangshewinsirikul, C. and *Svasti, J.* (2017) Lupeol and stigmasterol suppress tumor angiogenesis and inhibit cholangiocarcinoma growth in mice via downregulation of tumor necrosis factor-alpha. PLOS ONE. DOI: 10.1371/journal.pone.0189628

182. Chatchen, S., Pongsakul, N., Srisomsap, S., Chiangjong, W., Hongeng, S., *Svasti, J.*, and Chutipongtanate, S. (2018) Unravelling pathophysiology of crystalline nephropathy in ceftriaxone-associated acute kidney injury: a cellular proteomic approach. *Nephron.* https://doi.org/10.1159/000486324.

183. Keeratichchamroen, S., Lirdprapamongkol, K. and *Svasti, J.* (2018) Mechanism of ECM-induced dormancy and chemoresistance in A549 human lung carcinoma cells.(2018) *Oncology Reports*. **39**(4): 1765-1774

184. Samutprasert, P., Chiablaem, K., Teeraseranee, C., Phaiyarin, P., Pukfukdee, P., Pienpinijtham, P., Svasti, J., Palaga, T., Lirdprapamongkol, K., Wanichwecharungruang, S. (2018) Epigallocatechin gallate-zinc oxide co-crystalline nanoparticles as an anticancer drug that is non-toxic to normal cells. *RSC Advances* **8**(14): 7369-7376

185. Ngiwsara, L., Ketudat-Cairns, J.R., Sawangareetrakul, P., Charoenwattanasatien, R., Champattanachai, V., Kuptanon, C., Pangkanon, S., Tim-Aroon, T., Wattanasirichaigoon, D. and *Svasti, J.* (2018) p.X654R IDUA variant among Thai individuals with intermediate mucopolysaccharidosis type I and its residual activity as demonstrated in COS-7 cells. *Annals Human Genet*. **82:** 150-157.

186. Prangsaengtong, O., Jantaree, P., Lirdprapamongkol, K., and *Svasti, J.* (2018) Aspirin Suppresses Components of Lymphangiogenesis and Lymphatic Vessel Remodelling by Inhibiting the NF-kB/VCAM-1 Pathway in Human Lymphatic Endothelial Cells. *Vascular Medicine*. https://doi.org/10.1177/1358863X18760718.

187. Arthornthurasuk, S., Jenkhetkan, W., Suwan, E., Chokchaichamnankit, D., Srisomsap, C. Wattana-Amorn, P., *Svasti, J.* and Kongsaeree, P.T. (2018) Molecular Characterization and Potential Synthetic Applications of GH1 β-Glucosidase from Higher Termite *Microcerotermes annandalei*. *Applied Biochem. Biotechnol*. **186**:877-894 https://doi.org/10.1007/s12010-018-2781-8.

188. Netsirisawan, P., Chaiyawat, P. Chokchaichamnankit, D., Lirdprapamongkol, K., Srisomsap, C., *Svasti, J.,* Champattanachai, V. (2018) Decreasing O-GlcNAcylation affects the malignant transformation of MCF-7 cells via Hsp27 expression and its O-GlcNAc modification. *Oncology Reports* **40**(4), 2193-2205.

189. Kuljittichanok, D., Diskul Na Ayudthaya, P., Weeraphan, C., Chokchaichamnankit, D., Chiablaem, K., Lirdprapamongkol, K., *Svasti, J.*, Srisomsap, C. (2018) Effect of *Derris scandens* extract on a human hepatocellular carcinoma cell line. *Oncology Letters* **16:**1943-1952.

190. Prangsaengtong, O., Jantaree, P., Lirdprapamongkol, K., *Svasti J.*, and Koizumi, K. (2018) Shikonin Suppresses Lymphangiogenesis via NF-κB/HIF-1α Axis Inhibition.. *Biol Pharm Bull.* **41**(11):1659-1666.

191. Raungrut, P., Wongkotsila, A., Champoochana, N., Lirdprapamongkol, K., *Svasti, J.* and Thongsuksai, P. (2018) Knockdown of 14-3-3γ Suppresses Epithelial–Mesenchymal Transition and Reduces Metastatic Potential of Human Non-small Cell Lung Cancer Cells. *Anticancer Research* **38**(6): 3507-3514.

192. Sritana, N., Srisomsap, C., Chokchaichamnankit, D., and *Svasti J.*, Promsuwicha, O., Auewarakul C. (2018) Protein Profiling as a Useful Diagnostic Tool to Classify Patients with Acute Myeloid Leukemia of Different Cytogenetic Abnormalities. *J. Med. Assoc. Thai.* **101**(6):29.

193. Sritana, N., Kantathavorn, N., Paricharttanakul N.M., Wiriyaukaradecha, K., Chokchaichamnankit, D., Srisomsap, C., Udomchaiprasertkul, W., Sricharunrat, T., Auewarakul, C., and *Svasti, J.* (2018) Potential New Urinary Biomarkers for Cervical Cancer Screening Using SELDI-TOF Mass Spectrometry. *J Med Assoc Thailand* **101**(6):107

194. Singrang, N., Kittisenachai, S., Roytrakul, S., *Svasti, J.*, and Kangsamaksin, T. (2018) NOTCH1 regulates the viability of cholangiocarcinoma cells via 14-3-3 theta. J. *Cell Commun and Signaling.* https://doi.org/10.1007/s12079-018-0488-9.

195. Saharat, K., Lirdprapamongkol, K., Chokchaichamnankit, D., Srisomsap, C., *Svasti, J.*, Paricharttanakul, N.M. (2018) Tumor Susceptibility Gene 101 Mediates Anoikis Resistance of Metastatic Thyroid Cancer Cells. *Cancer Genomics Proteomics* **15(6)**:473-483.

196. Tongtubtim, N., Thenchartanan, P., Ratananikom, K., Choengpanya, K., *Svasti, J.*, and Kongsaeree, P.T. (2018) Multiple mutations in the aglycone binding pocket to convert the substrate specificity of dalcochinase to linamarase. *Biochem. Biophys. Res. Commun.* **504**: 647-653. https://doi.org/10.1016/j.bbrc.2018.08.202

197. Panachan, J., Chokchaichamnankit, D., Weeraphan, C., Srisomsap, C., Masaratana, P., Hatairaktham, S., Panichkul, N., *Svasti, J.*, Kalpravidh, R.W. (2019) Differentially expressed plasma proteins of β-thalassemia/hemoglobin E patients in response to curcuminoids/vitamin E antioxidant cocktails. *Hematology* **24(1)**:300-307. doi: 10.1080/16078454.2019.1568354.

198. Chaiyawat P, Sungngam P, Teeyakasem P, Sirikaew N, Klangjorhor J, Settakorn J, Diskul-Na-Ayudthaya P, Chokchaichamnankit D, Srisomsap C, *Svasti J*, Pruksakorn D. (2019) Protein profiling of osteosarcoma tissue and soft callus unveils activation of the unfolded protein response pathway. *Int. J. Oncol.* Feb 28.doi: 10.3892/ijo.2019.4737.

199. Chokchaichamnankit, D., Watcharatanyatip, K., Subhasitanont, P., Weeraphan, C., Keeratichamroen, S., Sritana, N., Kantathavorn, N., Diskul-Na-Ayudthaya, P., Saharat, K., Chantaraamporn, N., Verathamjamras, C., Phoolcharoen, N., Wiriyaukaradecha, K., Paricharttanakul, N. M., Udomchaiprasertkul, W., Sricharunrat, T., Auewarakul, C., *Svasti, J.* and Srisomsap, C. (2019) Urinary biomarkers for the diagnosis of cervical cancer by quantitative label-free mass spectrometry analysis. *Oncology Lett*. DOI: 10.3892/ol.2019.10227.

200. Chuysinuan, P., Pengsuk, C., Lirdprapamongkol, K., Techasakul, S., *Svasti, J.*, Nooeaid, P. (2019) Enhanced Structural Stability and Controlled Drug Release of

Hydrophilic Antibiotic-Loaded Alginate/Soy Protein Isolate Core-Sheath Fibers for Tissue Engineering Applications. *Fibers and Polymers* Vol. **20**: 1-10.

201. Chiangjong, W., Changtong, C., Panachan, J., Weeraphan, C., Srisomsap, C., Hongeng, S., *Svasti, J.* and Chutipongtanate, S. (2019) Optimization and Standardization of Thermal Treatment as a Plasma Prefractionation Method for Proteomic Analysis(2019) *BioMed Res. Int*. **39:** 2429-2435.

202. Saejia, P., Lirdprapamongkol, K., *Svasti, J.*, Paricharttanakul, N.M. (2019) Perfluorooctanoic Acid Enhances Invasion of Follicular Thyroid Carcinoma Cells Through NF-κB and Matrix Metalloproteinase-2 Activation. *Anticancer Research* **39:** 2429-2435.

203. Thongnest, S., Chawengrum, P., Keeratichamroen, S., Lirdprapamongkol, K., Eurtivong, C., Boonsombat, J., Kittakoop, P., *Svasti, J.* and Ruchirawat, S. (2019) Vernodalidimer L, a sesquiterpene lactone dimer from *Vernonia extensa* and anti-tumor effects of vernodalin, vernolepin, and vernolide on HepG2 liver cancer cells. *Bioorg. Chem.* https://doi.org/10.1016/j.bioorg.2019.103197

204. Weeraphan, C., Phongdara, A., Chaiyawat, P., Diskul-Na-Ayudthaya, P., Chokchaichamnankit, D., Verathamjamras, C., Netsirisawan, P., Yingcharoen, Y., Roytrakul, S., Champattanachai, V., *Svasti, J.* and Srisomsap, C.(2019) Phosphoproteome Profiling of Isogenic Cancer Cell-Derived Exosome Reveals HSP90 as a Potential Marker for Human Cholangiocarcinoma*. Front cover. Proteomics* **19**, issue 12. https://doi.org/10.1002/pmic.201800159.

205. Klangjorhor, J., Chaiyawat, P., Teeyakasem, P., Sirikaew, N., Phanphaisarn, A., Settakorn, J., Lirdprapamongkol, K., Yama, S., *Svasti, J.,* and Pruksakorn, D. (2019) Mycophenolic Acid is a Drug with the Potential to be Repurposed for Suppressing Tumour Growth and Metastasis in Osteosarcoma Treatment. *International J. Cancer* 14 October 2019, doi: 10.1002/ijc.32735.

206. Thanaussavadate, B., Ngiwsara, L., Lirdprapamongkol, K., *Svasti, J*., Chuawong, P. (2019) A synthetic 2,3-diarylindole induces microtubule destabilization and G2/M cell cycle arrest in lung cancer cells. *Bioorganic & Medicinal Chemistry Letters* 26-OCT-2019, DOI: 10.1016/j.bmcl.2019.126777

207. Ngiwsara, L., Wattanasirichaigoon, D., Tim-Aroon, T., Rojnueangnit, K., Noojaroen, S., Khongkraparn, A., Sawangareetrakul, P., Ketudat-Cairns, J.R., Charoenwattanasatien, R., Champattanachai, V., Kuptanon, C., Pangkanon, S., *Svasti, J.* (2019) Clinical course, mutations and its functional characteristics of infantile-onset Pompe disease in Thailand. Clinical course, mutations and its functional characteristics of infantile-onset Pompe disease in Thailand. *BMC Medical Genetics*. December 2019. https://doi.org/10.1002/ijc.32735

208. Chanarat, S and *Svasti, J.* (2020) Stress-induced upregulation of the ubiquitin-relative Hub1 modulates pre-mRNA splicing and facilitates cadmium tolerance in Saccharomyces cerevisiae. *Biochimica Biophysica Acta (BBA) - Molecular Cell Researc*h **1867**: 118565. https://doi.org/10.1016/j.bbamcr.2019.118565

209. Pramual, S., Lirdprapamongkol, K., Jouan-Hureaux, V., Barberi-Heyob, M., Frochot, C., *Svasti, J.*, and Niamsiri, N. (2020) Overcoming the diverse mechanisms of multidrug resistance in lung cancer cells by photodynamic therapy using pTHPP-loaded PLGA-lipid hybrid nanoparticles. *European Journal of Pharmaceutics and Biopharmaceutics* **149**, 218-228. DOI: 10.1016/j.ejpb.2020.02.012

210. Netsirisawan, P., Chokchaichamnankit, D., Saharat, K., Srisomsap, C., *Svasti, J.* and Champattanachai, V. (2020) Quantitative proteomic analysis of the association between decreasing O-GlcNAcylation and metastasis in MCF-7 breast cancer cells. *Intern. J. Oncol.* **56**, 1387-1404. https://doi.org/10.3892/ijo.2020.5022

211. Keeratichamroen, S., Subhasitanont, P., Chokchaichamnankit, D., Weeraphan, C., Saharat, K., Sritana, N., Kantathavorn, N., Wiriyaukaradecha, K., Sricharunrat, T., Paricharttanakul, N.M., Auewarakul, C., *Svasti, J.* and Srisomsap, C. (2020) Identification of potential cervical cancer serum biomarkers in Thai patients. *Oncol. Letts.* **19:** 3815-3826. https://doi.org/10.3892/ol.2020.11519.

212. Chuawong, P., Likittrakulwong, W., Suebka, S., Wiriyatanakorn, N., Saparpakorn, P., Taweesablamlert, A., Sudprasert, W., Hendrickson, T. and *Svasti, J.* (2020) Anticodon-binding domain swapping in a nondiscriminating aspartyl-tRNA synthetase reveals contributions to tRNA specificity and catalytic activity. *Proteins: Structure, Function, Bioinformatics*. https://doi.org/10.1002/prot.25881

213. Huehne, P.S., Bhinija, K., Srisomsap, C., Chokchaichamnankit, D., Weeraphan, C., *Svasti, J.,* and Mongkolsuk, S. (2020) Detection of Superoxide Dismutase(Cu-Zn) Isoenzymes in Leaves and Pseudobulbs of *Bulbophyllum morphologlorum* Kraenzl Orchid by Comparative Proteomic Analysis. *Biochemistry and Biophysics Reports* **22:** 100762. https://doi.org/10.1016/j.bbrep.2020.100762.

214. Thenchartanan, P., Pitchayatanakorn, P., Wattana-Amorn, P., Ardác, A.., *Svasti, J.,* Jiménez-Barberoc, J. and Kongsaeree, P.T. (2020) Synthesis of Long-Chain Alkyl Glucosides via Reverse Hydrolysis Reactions Catalyzed by an Engineered β-Glucosidase. *Enzyme & Microbial Technol*. **140**: 109591. https://doi.org/10.1016/j.enzmictec.2020.109591

215. Ornnork, N., Lirdprapamongkol, K., Kiriwan, D., Choowongkomon, K., *Svasti, J.,* Eurtivong, C. (2020) Molecular dynamics, MM/PBSA and in vitro validation of a novel quinazoline-based EGFR tyrosine kinase inhibitor identified using structure-based in silico screening. *J. Molec. Graphics & Modelling*. **99:** 107639. https://doi.org/10.1016/j.jmgm.2020.107639

216. Nooeaid, P., Chuysinuan, P., Pengsuk, C., Dechtrirat, D., Lirdprapamongkol, K., Techasakul, S., *Svasti, J.* (2020) Polylactic acid microparticles embedded porous gelatin scaffolds with multifunctional properties for soft tissue engineering. *J. Science: Adv. Materials & Devices* **5**, 337-345.

217. Thenchartanan, P., Wattana-Amorn, P., *Svasti, J.*, and Kongsaeree, P.T. (2020) Improved synthesis of long-chain alkyl glucosides catalyzed by an engineered β-glucosidase in organic solvents and ionic liquids. *Biotechnol. Letters*. **42**: 2379-2387.

218. Kantaputra, P.N., Dejkhamron, P., Tongsima, S., Ngamphiw, C., Intachai, W., Ngiwsara, L., Sawangareetrakul, P., *Svasti, J.*, Olsen, B., Cairns, J.R.K., and Bumroongkit, K. (2020) Juberg-Hayward syndrome and Roberts syndrome are allelic, caused by mutations in ESCO2. *Arch. Oral Biol*. **119**, Article number 104918.

219. Chantaraamporn, J., Champattanachai, V., Khongmanee, A., Verathamjamras, C., Prasongsook, N., Mingkwan, K., Luevisadpibul V., Chutipongtanate, S. and *Svasti, J.* (2020) Glycoproteomic Analysis Reveals Aberrant Expression of Complement C9 and Fibronectin in the Plasma of Patients with Colorectal Cancer. *J. Proteomes*, **8**(3): 26; https://doi.org/10.3390/proteomes8030026

220. Verathamjamras, C., Sriwitool, T., Netsirisawan, P., Chaiyawat, P., Chokchaichamnankit, D., Prasongsook, N., Srisomsap, C., Svasti, J. and Champattanachai, V. (2021) Aberrant RL2 O-GlcNAc antibody reactivity against serum-IgA1 of patients with colorectal cancer *Glycoconjugate J.* **38**: 55–65.

221. Saengow, V.E., Chiangjong, W., Khongkhatithum, C., Changtong, C., Chokchaichamnankit, D., Weeraphan, C., Kaewboonruang, P., Thampratankul, L. Manuyakorn, W., Hongeng, S., Srisomsap, C., *Svasti, J.*, Chutipongtanate, S. and Visudtibhan, A. (2021) Proteomic analysis reveals plasma haptoglobin, interferon-γ and interleukin-β as potential biomarkers of pediatric refractory epilepsy. *Brain & Development* **43**: 431-439. DOI:https://doi.org/10.1016/j.braindev.2020.11.001

222. Saruengkhanphasit, R.; Butkinaree, C.; Ornnork, N.; Lirdprapamongkol, K.; Niwetmarin, W.; *Svasti, J.*; Ruchirawat, S.; Eurtivong, C. (2021) Identification and structure-activity relationship of new 3-phenyl-1*H*-indole-2-carbohydrazide derivatives as potent tubulin inhibitors and anticancer agents: A combined *in silico*, in *vitro* and synthetic study. *Bioorg. Chem.* **2021.** DOI: 10.1016/j.bioorg.2021.104795.

223. Ngiwsara, L., Vatanavicharn, N., Sawangareetrakul, P., Liammongkolkul, S., Ratanarak, P., Boonyawat, B., Srisomsap, C., Champattanachai, V., Ketudat-Cairns, J., Wasant, P. and *Svasti, J.* (2021) Molecular characterization of Thai patients with phenylalanine hydroxylase deficiency and in vitro functional study of two novel PAH variants. *Molec. Biol. Rep*. **48:** 2063–2070. DOI: 10.1007/s11033-021-06163-w.

224. Mon, M.M., Srisomsap, C., Chokchaichamnankit, D., Watcharatanyatip, K., Weeraphan, C., *Svasti, J.*, Maneechai, K., Thongsuksai, P., and Raungrut, P. (2021) Serum Proteomic Profiling Reveals Differentially Expressed IGHG3 and A1AG1 as Potential Predictors of Chemotherapeutic Response in Advanced Non-small Cell Lung Cancer. *Anticancer Res*. **41**(4):1871-1882. https://doi.org/10.21873/anticanres.14953.

225. Sawangareetrakul, P., Ngiwsara, L., Champattanachai, V., Chokchaichamnankit, D., Saharat, K., Cairns, J.R.K., Srisomsap, C., Khwanraj, K., Dharmasaroj, P., Pulkes, T., and *Svasti, J.* (2021) Aberrant proteins expressed in skin fibroblasts of Parkinson's disease patients carrying heterozygous variants of glucocerebrosidase and parkin genes. *Biomedical Reports* 14(4): https://doi.org/10.3892/br.2021.1412.

226. Komkleow, S., Weeraphan, C., Chokchaichamnankit, D., Chaisuriya, P., Verathamjamras, C., Ruangjaroon, T., *Svasti, J.*, Sangvanich, P. and Srisomsap, C. (2021) Global Analysis of Protein Expression in A549 Cells After Prolonged Nicotine

exposure by Using Label-free Quantification. *Anticancer Research*, 41(8) 3833-3842; DOI: https://doi.org/10.21873/anticanres.15176

227. Lertsuwan, J., *Svasti, J.*, Satayavivad, J.(2021) Adenosine induces autophagy in cholangiocarcinoma cells. *Anticancer Research* 41(8): 3769-3778. DOI: https://doi.org/10.21873/anticanres.15169

228. Chiangjong, W., Panachan, J., Vanichapol, T., Pongsakul, N., Pongphitcha, P., Siriboonpiputtana, T., Lerksuthirat, T., Nuntnarumit, P., Supapannachart, S., Srisomsap, C., *Svasti, J.*, Hongeng, S., and Chutipongtanate, S. (2021) HMP-S7 Is a Novel Anti-Leukemic Peptide Discovered from Human Milk. *Biomedicines* **2021**, *9*(8), 981; https://doi.org/10.3390/biomedicines9080981

229. Gorantla, J.N, Maniganda, S., Pengthaisong, S., Ngiwsara, L., Sawangareetrakul, S., Chokchaisiri, S., Kittakoop, P., *Svasti, J.* and Ketudat Cairns, J.R. (2021) Chemoenzymatic and Protecting-Group-Free Synthesis of 1,4-Substituted 1,2,3-Triazole-α-D-glucosides with Potent Inhibitory Activity toward Lysosomal α-Glucosidase. *ACS Omega* **6**: 39, 25710–25719. https://doi-org.ejournal.mahidol.ac.th/10.1021/acsomega.1c03928

230. Chueychama, S., Srisomsap, C., Chokchaichamnankit, D., *Svasti, J.* Hummel, K., Nöbauer, K., Hekmat, O., Razzazi-Fazeli, E. and Kingtong, S. (2021) Toxicity of DDT to the hooded oyster *Saccostrea cucullata*: Mortality, histopathology and molecular mechanisms as revealed by a proteomic approach. *Ecotoxicology and Environmental Safety* **225**: 112729.

231. Rodphon, W., Laohapaisan, P., Supantanapong, N., Reamtong, O., Ngiwsara, L., Lirdprapamongkol, K., Thongsornkleeb, C., Khunnawutmanotham, N., Tummatorn, J., *Svasti, J.* and Ruchirawat, S. (2021) Synthesis of Isocryptolepine-Triazole Adducts and Evaluation of Their Cytotoxic Activity. *ChemMedChem* **16**(24): 3750-3762.

232. Weeraphan, C., Thawornpan, P., Thanapongpichat, S., Srinoun, K., Tun, A.W., Srisomsap, C., *Svasti, J.* and Buncherd, H. (2022) Application of the Magnetic Fraction of Fly Ash as a Low-Cost Heterogeneous Fenton Catalyst for Degrading Ethidium Bromide. *Analytical Letters* **55**: 965-979. https://doi.org/10.1080/00032719.2021.1977313.

233. Keeratichamroen, S., Lirdprapamongkol, K., Thongnest, S., Boonsombat, J., Chawengrum, P., Sornprachum, T., Sirirak, J., Verathamjamras, C., Ornnork, N., Ruchirawat, S and *Svasti, J.* (2022) JAK2/STAT3-mediated dose-dependent cytostatic and cytotoxic effects of sesquiterpene lactones from *Gymnanthemum extensum* on A549 human lung carcinoma cells. *Oncology Reports* **47:**6. https://doi.org/10.3892/or.2021.8217

234. Chaiputtanapun, P., Lirdprapamongkol, K., Thanaussavadate, B., Phongphankhum, T., Thippong, T., Thangsan, P., Montatip, P., Ngiwsara, L., *Svasti, J.* and Chuawong, P. (2022) Biphasic Dose-Dependent G0/G1 and G2/M Cell-Cycle Arrest by Synthetic 2,3-Arylpyridylindole Derivatives in A549 Lung Cancer Cells. *ChemMedChem*. 17: Issue 1419. Article number e202200127s. **DOI** 10.1002/cmdc.202200127.

235. Watcharatanyatip, K., Chutipongtanate, S., Chokchaichamnankit, D., Weeraphan, C., Mingkwan, K., Luevisadpibul, V., Newburg, D.S., Morrow, A.L., *Svasti, J.*, and Srisomsap, C. (2022) Translational Proteomic Approach for Cholangiocarcinoma

Biomarker Discovery, Validation, and Multiplex Assay Development: A Pilot Study. *Molecules*. DOI: 10.3390/molecules27185904

236. Thongnest, S., Boonsombat, J., Keeratichamroen, S., Lirdprapamongkol, K., Kaweetripob, W., Kheawchaum, S., Mahidol, C., *Svasti, J.*, Ruchirawat, S. and Prawat, H. (2022) Acetogenins from the stems of Uvaria micrantha showing antiproliferative effects on HepG2 liver cancer cells. *Phytochemistry*. DOI: 10.1016/j.phytochem.2022.113450

237. Pramual, S., Lirdprapamongkol, K., Atjanasuppat, K., Chaisuriya, P., Niamsiri, N. and *Svasti, J.* (2022) PLGA-Lipid Hybrid Nanoparticles for Overcoming Paclitaxel Tolerance in Anoikis-Resistant Lung Cancer Cells. *Molecules* **27**:issue 23 DOI: 10.3390/molecules27238295

238. Ngiwsara, L., Sawangareetrakul, P., Wattanasirichaigoon, D.,Tim-Aroon, T., Dejkhamron, P., Champattanachai, V., Ketudat-Cairns, J.R. and *Svasti, J.* (2022) Effects of gentamicin inducing readthrough premature stop Codons: A study of alpha-L-iduronidase nonsense variants in COS-7 Cells. *Biochem.Biophys.Res.Commun.* **636:** 147-154.

239. Phuegyod, S., Pramual, S., Wattanavichean, N., Assawajaruwan, S., Amornsakchai, T., Sukho, P., *Svasti, J.,* Surarit, R. and Niamsiri, N. (2023) Microbial Poly(hydroxybutyrate-co-hydroxyvalerate) Scaffold for Periodontal Tissue Engineering. *Polymers* **2023**, *15*(4), 855; https://doi.org/10.3390/polym15040855

240. Chuysinuan, P., Pengsuk, C., Lirdprapamongkol, K., Thanyacharoen, T., Techasakul, S., *Svasti, J.* and Nooeaid, P. (2022) Turmeric Herb Extract-Incorporated Biopolymer Dressings with Beneficial Antibacterial, Antioxidant and Anti-Inflammatory Properties for Wound Healing. *Polymers* **2023**, *15*(5), 1090. DOI: https://doi.org/10.3390/polym15051090

241. Anurathapan, U., Tim-Aroon, T., Zhang, W., Sanpote, W., Wongrungsri, S., Khunin, N., Chutipongtanate, S., Chirdkiatgumchai V., Ngiwsara, L., Jaovisidha, S., Khongkraparn, A., Pakakasama, S., *Svasti, J.,* Setchell, K.D.R., Wattanasirichaigoon, D., Hongeng, S. (2023) Comprehensive and long-term outcomes of enzyme replacement therapy followed by stem cell transplantation in children with Gaucher disease type 1 and 3. *Pediatric Blood & Cancer* **70**:e30149. DOI:10.1002/pbc.30149

242. Keeratichamroen, S., Sornprachum, S., Ngiwsara, L., Ornnork, N., and Svasti, J. (2023) p-STAT3 influences doxorubicin and etoposide resistance of A549 cells grown in an *in vitro* 3D culture model. *Oncology Reports.* February 2023, article #71. DOI: https://doi.org/10.3892/or.2023.8508

243. Nonthawong, K., Srisomsap, C., Chokchaichamnankit, D., *Svasti, J.* and Phiriyangkul, P. (2023) Comparative proteomics and in silico allergenicity of fresh and powdered skipjack tuna and Nile tilapia. *Food Control* **144**:109345.

244. Wisessaowapak, C., Weeraphan, C., Visitnonthachai, D., Chokchaichamnankit, Srisomsap, C., Watcharasit, P., *Svasti, J.*, and Satayavivad, J. (2023) Arsenic induces the global hypophosphorylation of insulin receptor substrate proteins in differentiated human neuroblastoma SH-SY5Y cells. *Heliyon* DOI: 10.1016/j.heliyon.2023.e14385

245. Srisomsap, C., Nonthawong, K., Chokchaichamnankit, D., *Svasti, J.*, Phiriyangkul, P. (2023) Shotgun proteomics characterization of potential allergens in dried and powdered krill and fresh and powdered whiteleg shrimp. Food Bioscience: **54**, August 2023, 102803.

246. Chawengrum, P., Luepongpatthana, N., Thongnest, N., Sirirak, J., Boonsombat, J., Lirdprapamongkol, K., Keeratichamroen, S., Kongwaen, P., Montatip, P., Kittakoop, P., *Svasti, J.*, and Ruchirawat, S. (2023) Scientific Reports DOI: 10.1038/s41598-023-40669-6

247. Jitpimai, K., Ngiwsara, L., Lang, W., Panichpat, T., Mingma, R., *Svasti, J.,* Wongchawalit, J. (2023) Evaluation of Alcoholic Extracts of Mucuna pruriens (L.) DC. Var. utilis for Antibacterial, Antioxidant and Cytotoxic Activities toward Human Cancer Cell Lines. *Chiang Mai Journal of Science.* Vol 50: No 5; September. DOI: 10.12982/cmjs.2023.045

248. Sangsanoh, P., Chaiarwut, S., Choipang, C., Niyompanich, J., Suwantong, O., Lirdprapamongkol, K., Jisnuson *Svasti, J.,* Chuysinuan, P., Techasakul, S. and Supaphol, P. (2023) Cannabidiol/β-Cyclodextrin Inclusion Complex-Loaded Poly(Vinyl Alcohol) Semi-solid Hydrogels for Potential Use in Wound Management. J. Polym. Envir. **31**(9):1-16. DOI: 10.1007/s10924-023-02845-7 1566-2543

249. Nontaleerak, B., Eurtivong, C., Weeraphan, C., Buncherd, H., Chokchaichamnankit, D., Srisomsap, C.; *Svasti, J.*, Sukchawalit, R. and Mongkolsuk, S. (2023) The redox-sensing mechanism of *Agrobacterium tumefaciens* NieR as a thiol-based oxidation sensor for hypochlorite stress. *Free Radical Biology and Medicine* 208: 211-220. DOI: 10.1016/j.freeradbiomed.2023.08.002

250. Ketudat Cairns, J.R., Karunambigai, A., Jeon, J.-S., Svasti, J. (2023) Functions of rice beta-glucosidases and transglucosidases. ScienceAsia 49(5): 635-645. DOI: https://doi.org/10.2306/scienceasia1513-1874.2023.068

251. Jitpimai, K; Ngiwsara, L., Lang, W., Panichpat, T., Mingma, R., Svasti, J. and Wongchawalit, J. (2023) Evaluation of Alcoholic Extracts of Mucuna pruriens (L.) DC. Var. utilis for Antibacterial, Antioxidant and Cytotoxic Activities toward Human Cancer Cell Lines. Chiang Mai J. Science 50(5), e2023045. DOI: 10.12982/cmjs.2023.045

252. Lertsuwan, J., Svasti, J. and Satayavivad, J. (2023) 8-Chloroadenosine Induces ER Stress and Apoptotic Cell Death in Cholangiocarcinoma Cells. Anticancer Research **43** (12) 5425-5436; DOI: https://doi.org/10.21873/anticanres.16746

253. Savaspun, K., Boonchaisri, S., Chaisuriya, P., Srisomsap, C., Svasti, J., Ardkhean, R., Phanumartwiwath, A., and Sam-ang, P. (2023) Cytotoxicity and molecular docking to DNA topoisomerase II of chalcone flavokawain B isolated from *Kaempferia elegans* rhizomes.*ScienceAsia* **49:** 421-427 |doi: 10.2306/scienceasia1513-1874.2023.036

254. Sae-lim, S., Ngiwsara, L., Lirdprapamongkol, K., Puttamuk, T., Maneeanakekul, S., Thangsan, P., Sangsuwan, W. *Svasti, J.*, and Chuawong, P. (2024) Fitoterapia 173: 105781. DOI: 10.1016/j.fitote.2023.105781

255. Subhasitanont, P., Chokchaichamnankit, D., Watcharatanyatip, K., Phiriyangkul, P., Chaisuriya, P., Svasti, J. and Srisomsap, C. (202) Shotgun proteomics and in silico analysis of potential allergens in matre seeds and sprouts of purple winged bean. Food Bioscience. DOI: 10.1016/j.fbio.2024.103785

B. Science Education Articles, Editorials, and Academic Articles at International Level

1. *Svasti, J.* and Panijpan, B. (1977) SDS-Polyacrylamide Gel Electrophoresis: a simple explanation of why it works. *J. Chem. Ed.* **54:** 560-562.
2. *Svasti, J.* (1979) What is the Function of LDH Isozymes: doubts concerning validity of aerobic- anaerobic theory. *Trends in Biochem. Sci.* **4**: N133-134.
3. *Svasti, J.* (1980) Automated Amino Acid Analysis Comes of Age: but textbooks errors persist. *Trends in Biochem. Sci.* **5**, January, VIII- IX.
4. *Svasti, J.* (1980) A Simple Laboratory Experiment in Biochemistry: The activation and inactivation of sulphydryl and aspartate proteases. *Biochem. Ed.* **8:** 11-15.
5. *Svasti, M.R. J.* (1981) Tenth Anniversary of the Federation of Asian and Oceanian Biochemists (FAOB). *J. Sci. Soc. Thailand* **7:** 133-135.
6. *Svasti, M.R. J.* (1985) A Call for Papers. *J. Sci. Soc. Thailand* **11:** 1-3.
7. *Svasti, M.R. J.* (1985) Integrity and Judgement in Science. *J. Sci. Soc. Thailand* **11:** 141-145.
8. *Svasti, M.R. J.* (1986) Scientific Cooperation through Societies, Federations and Unions: some experiences from the biochemical community in Thailand. *J. Sci. Soc. Thailand* **12:** 119-125.
9. *Svasti, M.R. J.* (1987) Academic Positions and Careers in Science at Thai Universities. *J. Sci. Soc. Thailand* **13:** 63-69.
10. *Svasti, M.R. J.* (1987) A Theory of Circum-motion. *J. Sci. Soc. Thailand* **13**: 185-188.
11. *Svasti, J.* (1989) Activation and Inactivation of Sulphydryl and Aspartate Proteases. In *Practical Biochemistry for Colleges* (Wood, E.J., ed.), Pergammon Press, Oxford, pp. 9-11.
12. *Svasti, J.* and Surarit, R. (1991) Biochemical Education in Thailand: Past, Present and Future. *Biochem. Educ*. **19**: 129-135.
13. *Svasti, J.* and Surarit, R. (1992) A Survey of Introductory Biochemistry Courses at Thai Universities. *Biochem. Educ.* **20**: 204-209
14. *Svasti, J.* (1992) Federation of Asian and Oceanian Biochemists: where now after twenty years. *Trends in Biochem. Sci.* **17**: 53- 55.
15. Surarit, R., Benjavongkulchai, E. and *Svasti, J.* (1994) A Laboratory Experiment Illustrating Tooth Decay. *Biochem. Educ.* **22:** 45-47.
16. *Svasti, M.R.J.* (2001) *ScienceAsia* and Its Role in Enhancing a Research Culture in Thailand. *ScienceAsia* **27:** 73-74.
17. *Svasti, J.* (2001) Bioscience and Its Impact on Developing Countries: a Thai Perspective. *EMBO Rep*. **2**: 648-650.

18. *Svasti, M.R.J.* (2005) Thirty Years of *ScienceAsia, Journal of the Science Society of Thailand. ScienceAsia* **31:** 1-3.

19. *Svasti, J.* (2005) My Experience as an IUB Travel Fellow. *IUBMB Life* **57:** 255.

20. *Svasti, J.* and Sawyer, W.H. (2006) FAOBMB Inc.: a Brief History. *IUBMB Life* **58**: 280 -282.

21. *Svasti, M.R. J.* and Asavisanu, R. (2006) Update on Thai Publications in ISI Databases(1999-2005). *ScienceAsia* **32**: 101-106.

22. *Svasti, M.R. J.* and Asavisanu, R. (2006) Don't Forget the Name of Your University and How It Is Spelt: another look at ISI databases. *ScienceAsia* **32**: 207-213.

23. *Svasti, M.R. J.* (2006) Teaching and Research: opposite faces of the same coin? *ScienceAsia* **32:** 333-335.

24. *Svasti, M.R. J.* and Asavisanu, R. (2007) Aspects of Quality in Academic Journals: A Consideration of the Journals Published in Thailand. *ScienceAsia* **33:** 137-143.

25. *Svasti, M.R. J.* (2007) Graduate Training, Research and Excellence: a view from Mahidol University. *ScienceAsia* **33:** 253-256.

26. Svasti, M.R. J. (2007) Networking and Research Collaboration: Some Personal Experiences. *ScienceAsia* **33 Supplement 1**: 19-25.

27. *Svasti, J.* (2009) How I Became a Biochemist: what biochemistry has done for me. *IUBMB Life.* **61**(4): 476-478.

28. Ketudat Cairns, J.R.K., Champattanachai, V., Srisomsap, C., Paricharttanakul, N.M., Verathamjamras, C., Lirdprapamongkol, K. and *Svasti, J.* (2017) Conference report: the 5th Asia Pacific Protein Association Conference joint meeting with the 12th International Symposium of the Protein Society of Thailand. *Biophys. Rev.* https://doi.org/10.1007/s12551-017-0318-y

29. *Svasti, M.R. J.* (2018) Fifty Years of Protein Research: personal experience. *ScienceAsia* **44 Supplement 1**: 28-38.

30. *Svasti, M.R. J.* (2020) Fond memories: research, mentoring and networking *ScienceAsia* **46**: 1-5. DOI: 10.2306/scienceasia1513-1874.2020.016

31. Nagley, P., *Svasti, J.* and Kikuchi, A. (2022) Reflections on the 50-year history of the Federation of Asian and Oceanian Biochemists and Molecular Biologists (FAOBMB). *IUBMB Life* **74**(12): 1126-1168. https://doi.org/10.1002/iub.2679

32. Pramual, S., Lirdprapamongkol, K. and *Svasti, J.* (2023) Mechanisms of photodynamic therapy for cancer treatment. *Nanomaterials for Photodynamic Therapy*, Woodhead Publishing Series in Biomaterials, pp. 55-79, (edited by Prasan Keshwarni). https://doi.org/10.1016/B978-0-323-85595-2.00024-4

C. Proceedings of International Conferences

1. Milstein, C. and *Svasti, J.* (1971) Expansion and Contraction in the Evolution of the Immunoglobulin Gene Pools. *Progress in Immunology*, vol.1(B. Amos, ed.), pp. 33-45, Academic Press, New York and London.

2. *Svasti, J.* and Viriyachai, S. (1975) The Properties of Purified LDH-C4 from Human Testis. *Isozymes,* vol. 2, *Physiological Function* (Markert, C.L., ed.), pp. 113-127, Academic Press, N.Y. & London.

3. *Svasti, J.*, Kurosky, A., Bennett, A., Surarit, R. and Bowman, B.H. (1979) Structure and Properties of Human Plasma Vitamin D Transport Protein (Group-Specific Component). *Vitamin D: Basic Research and its Clinical Applications* (Norman, A.W. et al., eds.), pp. 149-152, Walter de Gruyter and Co., Berlin.

4. Surarit, R. and *Svasti, J.* (1982) Human Vitamin D Binding Protein: conformation and structure. *Vitamin D, Chemical, Biochemical and Clinical Endocrinology of Calcium Metabolism* (A.W. Norman et al, eds), pp. 1187-1190, Walter de Gruyter and Co., Berlin & New York.

5. *Svasti, J.*, Anguravirutt, S. and Toowicharanont, P. (1984) The Application of Affinity Chromatography in the Isolation of Proteins and Enzymes Specific for Male Germ Cells. *Proceedings, Third Symposium of the Federation of Asian and Oceanian Biochemists, Bali, Indonesia* (Moeljohardo, D.S., ed.), pp.32-38.

6. Tanphaichitr, N., Siwarungson, N., Chalermisrachai, P. and *Svasti, J.* (1984) Nuclease Digestion of Rat Testis Nuclei with TH1 and TH2B. *Proceedings, Third Symposium of the Federation of Asian and Oceanian Biochemists, Bali, Indonesia* (Moeljohardjo, D.S., ed.), pp. 59-68.

7. *Svasti, J.* (1986) Analysis of Amino Acid Sequence. In *Application of Genetic Engineering on Tropical Disease Pathogens with Special Reference to Plasmodia: a laboratory manual of selected techniques* (S. Panyim, P. Wilairat and Y. Yuthavong, eds.), UNDP/World Bank/ WHO TDR, pp. 247-259.

8. Manavanich, C., Anguravirutt, S. and *Svasti, J.* (1986) Effect of Gossypol on Lactate Dehydrogenase Isozymes of the Rat. In *Contemporary Themes in Biochemistry* (Kon, O.L. et al., ed.), ICSU Short Reports Vol. 6, Cambridge University Press, p. 304-305.

9. Boontrakulpoontawee, P., Yongsuwan, S., *Svasti, J.*, Winichagoon, P. and Fucharoen, S. (1986) Characterisation of Hemoglobin Variants in Thailand. In *Contemporary Themes in Biochemistry* (Kon, O.L. et al., ed.), ICSU Short Reports Vol. 6, Cambridge University Press, pp. 606- 607.

10. Boontrakulpoontawee, P., *Svasti, J.*, Fucharoen, S. and Winichagoon, P. (1988) Double Heterozygosity for HbE and a Lepore-type Hemoglobin in a Thai Woman. *Thalassemia: Pathophysiology and Management Part A* (Fucharoen, S., Rowley, P.T. and Paul, N.W., eds.), Alan R. Liss, Inc., New York, pp. 269-274.

11. Surarit, R. *Svasti*, *M.R. J.,* Srisomsap, C., Suginta, W., Khunyoshyeng, S., Nilwarangkoon, S., Harnsakul, P. and Benjavongkulchai, E. (1995) Possible Use of Glycosidase Enzymes from Thai Plant Seeds for Oligosaccharide Synthesis. *Biopolymers and Bioproducts: structure, function and applications* (Svasti, J. *et al*., eds.), Samakkhisan Public Co. Ltd., Bangkok., pp. 251-255.

12. Suginta, W., and S*vasti*, J. (1995) β-Galactosidase from Thai Jute: purification and characterization. In *Biopolymers and Bioproducts: structure, function and applications*(Svasti, J. *et al*., eds.), Samakkhisan Public Co. Ltd., Bangkok, pp. 256-260.

13. Khunyoshyeng, S., Srisomsap, C., Champattana-chai, V., Boonpuan, K., Sawangareetrakul, P., Surarit, R. and *Svasti, M.R.J.* (1995) Purification and Properties of β-D-Glucosidase/β-D-Fucosidase from *Dalbergia cochinchinensis* Pierre. In *Biopolymers and Bioproducts: structure, function and applications* (Svasti, J. *et al*., eds.), Samakkhisan Public Co. Ltd., Bangkok, pp. 246-250.

14. Srisomsap, C., Khunyosheyeng, S., Surarit, R. and *Svasti, M.R.J.* (1995) Studies of Oligosaccharide Synthesis by Enzymes from *Dalbergia cochinchinensis* Pierre. In *Biopolymers and Bioproducts: structure, function and applications* (Svasti, J. *et al*., eds.), Samakkhisan Public Co. Ltd., Bangkok, 241-245.

15. Benjavongkulchai, E., Surarit, R., Bucke, C., and *Svasti, M.R. J.* (1995) Glucosyl Acceptors of Dextransucrase from *Streptococcus mutans*. In *Biopolymers and Bioproducts: structure, function and applications* (Svasti, J. *et al*., eds.), Samakkhisan Public Co. Ltd., Bangkok, 230-234.

16. Siriboon, W., *Svasti, M.R.J*., Srisomsap, C., Winichagoon, P. and Fucharoen, S.(1995) Discovery of a New Hemoglobin C Mutation in Thailand. In *Biopolymers and Bioproducts: structure, function and applications* (Svasti, J. *et al*., eds.), Samakkhisan Public Co. Ltd., Bangkok, pp. 159-163.

17. *Svasti, J.*, Srisomsap, C., Siriboon, W., Fucharoen, S., Winichagoon, P., Pravatmuang, P. and Surarit, R.(1993) The Structure of Abnormal Hemoglobins in Thailand. *Recent Advances in Molecular and Biochemical Research on Proteins* (Wei, Y.-H., Chen, C.-S. and Su, J.-C., eds.), World Scientific Press, Singapore, pp. 197-200.

18. *Svasti, J.* and Surarit, R. (1994) Biochemical Education and Curricula in Thailand. *Chemistry in Transition: Proceedings, 12th International Conference on Chemical Education*, pp. 84-88, Bangkok, Thailand.

19. *Svasti, J*., Srisomsap, C., Surarit, R., Benjavongkulchai, E., Suginta, W., Khunyoshyeng, S., Champattanachai, V., Nilwarangkoon, S. and Rungvirayudx, S. (1996) Potential Applications of Plant Glycohydrolases for Oligosaccharide Synthesis. In *Protein Structure-Function Relationship* (Zaidi, Z.H. and Smith, D.L., eds.), Plenum Press, pp. 249-257.

20. *Svasti, M.R. J*., Srisomsap, C., Surarit, R. and Benjavongkulchai, E. (1996) Oligosaccharide Synthesis by Reversal of Plant Glycosidases from Thailand. *In Proceedings, Second Thai-French Symposium on Plant Molecular Biology*, Bordeaux, France, 6-10 October 1996, pp. 160-171.

21. S*vasti, M.R. J.,* Srisomsap, C., Surarit, R., Champattanachai, V., Boonpuan, K., Sawangareetrakul, P., Subhasitanont, P. and Chokchaichamnankit, D. (1997) Purification and Properties of Thai Rosewood β-Glucosidase/ β-Fucosidase. In *Proceedings, Conference on Biotechnology Research and Applications for Sustainable Development* (Mongkolsuk, S., Loprasert, S. and Srifah, P., eds.), Bangkok, Thailand, pp. 1-7.

22. Wongwithoonyaporn, P., Perry, D., Surarit, R., Bucke, C. and *Svasti, M.R. J*. (1997) Oligosaccharide Synthesis by α-D-Mannosidases from Thai Beans. In *Proceedings, Conference on Biotechnology Research and Applications for Sustainable Development(*Mongkolsuk, S., Loprasert, S. and Srifah, P., eds.), Bangkok, Thailand, pp. 9-15.

23. *Svasti, M.R.J.,* Srisomsap, C., Surarit, R., Techasakul, S. and Ketudat-Cairns, J. (1998) Characterization of a Novel Rotenoid-β-Glucosidase Enzyme and its Natural Substrate from Thai Rosewood. *Proceedings, International Conference on Biodiversity and Bioresources Conservation and Utilization.* http:// www.iupac.org./ symposium/ proceedings/ phuket97/ svasti.html

24. *Svasti, J.*, Srisomsap, C., Winichagoon, P. and Fucharoen, F. (1999) Detection and Structural Analysis of Abnormal Hemoglobins Found in Thailand. *Southeast Asian J. Trop. Med. Pub. Health* **Vol 30**, **Suppl. 2,** 88-93.

25. Wasant, P., *Svasti, J.*, Srisomsap, C., Liammongkol, S., Naylor, E., and Matsumoto, I. (1999) Inherited Metabolic Disorder in Thailand – Siriraj Experience. *Southeast Asian J. Trop. Med. Pub. Health* **Vol 30**, **Suppl. 2,** 124-137.

26. Surarit, R., Srisomsap, C., Wasant, P., *Svasti, J.*, Suthatvoravut, S., Chokchaichamnankit, D. and Liammongkolkul, S. (1999) Plasma Amino Acid Analyses in Two Cases of Maple Syrup Urine Disease. *Southeast Asian J. Trop. Med. Pub. Health* **Vol 30**, **Suppl. 2,** 138-139.

27. Srisomsap, C., Wasant, P., *Svasti, M.R. J.*, Chokchaichamnankit, D. And Liammongkolkul, S. (1999) Plasma Amino Acid and Urine Organic Acid Analyses of Methylmalonic Acidemia In A Thai Infant. *Southeast Asian J. Trop. Med. Pub. Health* **Vol 30**, **Suppl. 2,** 140-142.

28. Wasant, P., *Svasti, J.*, Srisomsap, C., Liammongkolkul, S., and Ratanarak, P. (2002) Inherited Metabolic Disorders in Thailand. *J.Med.Assoc.Thailand* **85, Sup 2**, S700-9.

29. Wasant, P., Srisomsap, C., Liammongkolkul, S. and *Svasti, J.* (2002) Urea cycle disorders in Thai infants: a report of 5 cases. *J. Med. Assoc. Thailand* **85, Suppl 2,** S720-31.

30. Pangkanon, S., Ratrisawadi, V., Charoensiriwatana, W., Techasena, W., Boonpuan, K., Srisomsap, C., *Svasti, J.* (2003) Phenylketonuria detected by the neonatal screening program in Thailand. *Southeast Asian J Trop Med Public Health*, **34**, **Suppl 3**, 179-81.

31. Chaiyen, P., Suadee, C., Thotsaporn, K. and *Svasti, M.R. J.* (2002) Studies of the Two-Component *p*-Hydroxyphenylacetate Hydroxylase from *Acinetobacter baumannii*, in *Flavins & Flavoproteins* (Eds: Chapman, S., Perham, R., and Scrutton, N.), Rudolf Weber, Berlin, 975-980.

32. *Svasti, J.,* Ketudat-Cairns, J., Srisomsap, C., Surarit, R., Techasakul, S., and Toonkool, P. (2004) Structure and Properties of Beta-Glucosidases From Thai Plants. From *Proceedings of the 7th International Symposium on "Protein Structure - Function Relationship"*, A. Abbasi and S.A. Ali(eds), Karachi, Pakistan, 20-24th January 2003, pp. 221-240.

33. Nooeaid, P., Chuysinuan, P., Techasakul, S., Lirdprapamongkol, K., *Svasti, J*. (2017) Physico-chemical and *in vitro* cytotoxic properties of alginate/soy protein isolated scaffolds for tissue engineering. *Proceedings, 11th Pure and Applied Chemistry International Conference, PACCON 2017*, Bangkok; Thailand, 2-3 February 2017; Key Engineering MaterialsVolume 757 KEM, 2017, Pages 46-51.

D. Articles in Thai or in Thai Journals

1. *Svasti, M.R. J.* (1985) Principles of Biochemical Separation. In *Proceedings, Workshop on "The Separation of Biochemical Compounds"*, pp. 1-17, Srinakarintrvirot University, Bangkok. In Thai.
2. *Svasti, M.R. J.* (1985) Strategies in the Separation of Biochemical Compounds. In *Proceedings, Workshop on "The Separation of Biochemical Compounds"*, pp.113-126, Srinakarintrvirot University, Bangkok. In Thai.
3. *Svasti, M.R. J.* and Boontrakulpoontawee, P. (1985) Abnormal Hemoglobins. *Science Magazine*, **39:** 491-501. In Thai.
4. *Svasti, M.R. J.* (1986) Enzymes Used in the Cutting and Joining of DNA. *Proceedings, Workshop on "Basic Techniques in Genetic Engineering"*, pp. 65-80, Khon Khaen University. In Thai.
5. *Svasti, M.R. J.* (1987) The Properties of Enzymes. In *Proceedings, Workshop on "Enzymes and Their Applications"*, pp. 1-28, Mahidol University, Bangkok. In Thai.
6. *Svasti, M.R. J.* (1988) The Properties and Mechanism of Action of Enzymes. *Science Magazine* **41:** 333-340. In Thai.
7. *Svasti, M.R. J.* (1989) Improved Quality of Life for the Mentally Retarded. *J. Pediat. Soc. Thailand* **28:** 993-998.
8. *Svasti, M.R. J.* (1990) The Teaching of Biochemistry in Thailand. In *Proceedings, Workshop on "More Efficient Teaching of Biochemistry"*, pp. 1-16, Sukhothai Thammatiraj University, Bangkok
9. *Svasti, J.* and Surarit, R. (1992) Survey of the Content of Biochemistry Courses Presently Being Taught at Tertiary Level. In *Proceedings, Workshop on "Strategies for Developing Curriculum and Teaching in Biochemistry"*, pp. 36-58, Srinakarintrwirot University Prasarnmitr, Bangkok. In Thai.
10. Surarit, R. and *Svasti, J.* (1994) Enzymes in Daily Life. *Sukhothai Thammatiraj Open University Journal*. **7:** 38-44. In Thai.
11. *Svasti, M.R.J.* (1996) To Be or Not To Be: That is the Question. *Mahidol Univ. J.* **3:** 151-152.
12. *Svasti, M.R. J.* (1998) International Relations at Mahidol University. *Mahidol Univ. J.* **5:** 77-83.
13. *Svasti, M.R. J.* (2005) Science is Fun: Enjoy It. *Chiangmai J. Science* **32:** 77-79.

D. Textbook & Book Chapter and Guidebook

1. *Svasti, M.R. J.* (1978) in *Laboratory Experiments and Basic Concepts in Biochemistry* (Rungruangsak, K. and *Svasti, M.R. J.*, eds.), Amarin Press, Bangkok. In Thai.

   Chapter 1: Composition and Functions of Cells (pp. 1-17)

   Chapter 6: Amino Acids and Proteins (pp. 172-223)

   Chapter 7: Enzymes (pp. 224-269)

2. *Svasti, M.R. J.* (1987) in *Biochemistry*, *2530*, Third Revised Edition (Chulavatnatol, M., ed.), Sor Sor Ltd., Bangkok. In Thai.

   Chapter 6: Amino Acids and Proteins (pp. 107-145)

   Chapter 7: Enzymes and Biochemical Reactions (pp. 147-174)

   Chapter 8: Assembly of Biomolecules (pp. 175-188)

3. *Svasti, M.R. J.* (1999) in *Biochemistry, 2542*, Fourth Revised Edition (Chulavatnatol, M., and Komaratat, P., eds.), ISBN 974-86639-8-1, Jirrus Printing Ltd, Bangkok.

   Chapter 6: Amino Acids and Proteins (pp. 89-123)

   Chapter 7: Enzymes and Biochemical Reactions (pp. 125-150)

   Chapter 8: Assembly of Biomolecules (pp. 151-161)

4. *Svasti, M.R.J.*, Suwanchinda, B. and Phruthonkul, S. (eds.) (1999) Guidebook for Speech Writing. ISBN 974-663-059-8.

5. Lirdprapamongkol, K., *Svasti, J.,* Sakurai, H. and Saiki, I. (2008) Anticancer Effects of Vanillin. In *Beer in Health and Disease Prevention* (Preedy, V., ed.), chapter 24, pp. 260-270. Published on-line at http://beerinhealthanddisease.com, retrieved 18 November 2008