

REFERENCE

- Abbotts, A.P., Preston, V.G., Hughes, M., Patel, A.H. and Stow, N.D. 2000. Interaction of the herpes simplex virus type 1 packaging protein U_L15 with full-length and deleted forms of the U_L28 protein. *Journal of General Virology*. 81: 2999-3009.
- Akaitapichat, P., Tongngok, P., Wangmaneerat, A. and Sripanidkulchai, B. 2005. Antiviral and anticancer activities of *Stemona colilinsae*. *Thai Journal of Pharmaceutical Sciences*. 29 (3-4): 125-136.
- Akanitapichat, P., Wangmaneerat, A., Wilairat, P. and Bastow, K.R. 2006. Anti-herpes virus activity of *Dunbaria bella* Prain. *Journal of Ethnopharmacology*. 105 (1-2): 64-68.
- Akanksha. 2009. Weed management in organic basmati rice. [On line]. Available <http://gbpant.agropedia.in/content/weed-management-organic-basmati-rice> (25 November 2013).
- Albà, M.M., Das, R.D., Orengo, C.A. and Kellam, P. 2001. Genomewide function conservation and phylogeny in the herpesviridae. *Genome Research*. 11(1): 43-54.
- Alché, L.E., Ferek, G.A., Meo, M., Coto, C.E. and Maier, M.S. 2003. An antiviral meliacarpin from leaves *Melia azedarach* L.Z. *Naturforsch*. 215-219.
- Al-Haiza, M.A., Mostafa, M.S. and EL-Kady, M.Y. 2005. Preparation of some new coumarin derivatives with biological activity. *Scientific Journal of King Faisal University (Basic and Applied Sciences)*. 6(1): 75-94.

- Allahverdiyev, A., Duran, N., Ozguven, M. and Koltas, S. 2004. Antivital activity of volatile oils of *Melissa officinalis* L. against herpes simplex virus type 2. *Phytomedicine*. 11(7-8): 657-661.
- Amarowicz, R., Pegg, R.B. and Kosińska, A. 2009. SE-HPLC separation of myosin complex with tannins of bearberry (*Arctostaphylos uva-ursi* L. Sprengel) leaves. *Czech Journal of Food Sciences*. 27(5): 386-391.
- Amen, M.A. and Griffiths, A. 2011. Packaging of non-coding RNAs into herpesvirus virions: comparisons to coding RNAs. *Frontiers in Genetics*. 2(81): 1-5.
- Aminabhavi, T.M., Agnihotri, S.A. and Naidu, V.K. 2004. Rheological properties and drug release characteristics of pH-responsive hydrogels. *Journal of Applied Polymer Science*. 94(5): 2057-2064.
- Anago, E., Lagnika, L., Gbenou, J., Loko, F., Moudachirou, M. and Sanni, A. 2011. Antibacterial activity and phytochemical study of six medicinal plants used in Benin. *Pakistan Journal of Biological Sciences*. 14(7): 449-455.
- Ananil, K., Hudson, J.B., Souzal, C., Akpaganal, K., Tower, G.H.N., Amason, J.T. and Gbeassor, M. 2000. Investigation of medicinal plants of Togo for antiviral and antimicrobial activities. *Pharmaceutical Biology*. 38(1): 40-45.
- Andarwulan, N., Barari, R., Sandrasari, D.A., Bolling, B. and Wijaya, H. 2010. Flavonoid content and antioxidant activity of vegetables from Indonesia. *Food Chemistry*. 121(4): 1231-1235.
- Anzivino, E., Fioriti, D., Mischitelli, M., Bellizzi, A., Barucca, V., Chiarini, F. and Pietropaolo, V. 2009. Herpes simplex virus infection in pregnancy and in

neonate: status of art of epidemiology, diagnosis, therapy and prevention.

Virology Journal. 6:40-50.

Arama, V., Cercel, S., Vladareanu, R., Mihai, C., Mihailescu, R., Rankin, J., Goschin, S., Filipescu, A., Rafila, A., Arama, S., Hristea, A., Malkin, J.E., Pimenta, J.M. and Smith, J.S. 2010. Type-specific herpes simplex virus-1 and herpes simplex virus-2 seroprevalence in Romania: comparison of prevalence and risk factors in women and men. *International Journal of Infectious Diseases*. 14S: e25-e31.

Armaka, M., Papanikolaou, E., Sivropoulou, A. and Arsenakis, M. 1999. Antiviral properties of isoborneol, a potent inhibitor of herpes simplex virus type 1. *Antiviral Research*. 43: 79-92.

Aroonrerk, N. and Kamkaen, N. 2009. Anti-inflammatory activity of *Quercus infectoria*, *Glycyrrhiza uralensis*, *Kaempferia galangal* and *Coptis chinensis*, the main components of Thai herbal remedies for aphthous ulcer. *Journal of Health Research*. 23(1): 17-22.

Arthan, D., Svasti, J., Kittakoo, P., Pittayakhachonwut, D., Tanticharoen, M. and Thebataranonth, Y. 2002. Antiviral isoflavonoid sulfate and steroidal glycosides from the fruits of *Solanum torvum*. *Phytochemistry*. 59(4): 459-563.

Asasutjarit, R., Sirivat, A. and Vayumhasuwan, P. 2005. Viscoelastic properties of carbopol 940 gels and their relationships to piroxicam diffusion coefficients in gel bases. *Pharmaceutical Research*. 22(12): 2134-2140.

Bag, P., Chattopadhyay, D., Mukherjee, H., Ojha, D., Mandal, N., Sarkar, M.C., Chatterjee, T., Das, G. and Chakraborti, S. 2012. Anti-herpes virus

- activities of bioactive fraction and isolated pure constituent of *Mallotus peltatus*: an ethnomedicine from Andaman Islands. *Virology Journal*. 9: 98-109.
- Bai, M-S., Gao, J-M., Fan, C., Yang, S-X., Zhang, G. and Zheng, C-D. 2010. Bioactive dammarane-type triterpenoids derived from the acid hydrolysate of *Gynostemma pentaphyllum* saponins. *Food Chemistry*. 119(1): 306-310.
- Baines, G.D. 2011. Herpes simplex virus capsid assembly and DNA packaging: a present and future antiviral drug target. *Trends in Microbiology*. 19(12): 606-613.
- Bajaj, S., Singla, D. and Sakhuja, N. 2012. Stability testing of pharmaceutical products. *Journal of Applied Pharmaceutical Science*. 2(3): 129-138.
- Banfield, B.W., Leduc, Y., Esford, L., Schubert, K. and Tufaro, F. 1995. Sequential isolation of proteoglycan synthesis mutants by using herpes simplex virus as a selective agent: evidence for a proteoglycan-independent virus entry pathway. *Journal of Virology*. 69(6): 3290-3298.
- Barakat, A.B., Shoman, S.A., Dina, N. and Alfarouk, O.R. 2010. Antiviral activity and mode of action of *Dianthus caryophyllus* L. and *Lupinus termis* L. seed extracts against *in vitro* herpes simplex virus and hepatitis A viruses infection. *Journal of Microbiology and Antimicrobials*. 2(3): 23-29.
- Bedows, E., Holland, T.C. and Knight, P.R. 1986. Inhibition of Herpes simplex virus type 1 replication by Halothane. *Antimicrobial agents and Chemotherapy*. 29(5): 941-944.

- Bender, F.C., Whitbeck, J.C., Lou, H., Cohen, G.H. and Eisenberg, R.J. 2005. Herpes simplex virus glycoprotein B binds to cell surfaces independently of heparan sulfate and blocks virus entry. *Journal of Virology*. 79(18): 11588-11597.
- Benoy, G.K., Animesh, D.K., Aninda, M., Priyanka, D.K. and Sandip, H. 2012. An overview on *Andrographis paniculata* (Burm.f.) Nees. *International Journal of Research in Ayurveda and Pharmacy*. 3(6): 752-760.
- Betancur-Galvis, L.A., Morales, G.E., Forero, J.E. and Roldan, J. 2002. Cytotoxic and antiviral activities of Colombian medicinal plant extracts of the *Euphorbia* genus. *Memórias do Instituto Oswaldo Cruz*. 97(4): 541-546.
- Block, T.M. and Hill, J.N. 1997. The latency associated transcripts (LAT) of herpes simplex virus: still no end in sight. *Journal of Neuro Virology*. 3(5): 313-321.
- Boehmer, P.E. and Lehman, T.R. 1993. Physical interaction between the herpes simplex virus 1 origin-binding protein and single-stranded DNA-binding protein ICP8. *Proceedings of the National Academy of Sciences of the United States of America*. 90(18): 84444-84448.
- Bonacucina, G., Martelli, S. and Palmieri, G.F. 2004. Rheological, mucoadhesive and release properties of Carbopol gels in hydrophilic cosolvents. *International Journal of Pharmaceutics*. 282(1-2): 115-130.
- Boonmachai, C. 2010. Growth inhibition of oral bacteria by some medicinal plant extracts. A Master of Science's Thesis in Biology. Department of Biology, Faculty of Science, Chiang Mai University. Thailand. (In Thai with English abstract).

Borkatakya, M., Kakoty, B.B. and Saikia, L.R. 2013. Influence of total phenolic content and total flavonoid content on the DPPH radical scavenging activity of *Eclipta alba* (L.) Hassk. International Journal of Pharmacy and Pharmaceutical Sciences. 5(1): 224-327.

Boukarim, C., Jaoudé, S.A., Bahnam, R., Barada, R. and Kyriacos, S. 2009. Preservatives in liquid pharmaceutical preparations. Journal of Applied Research. 9(1-2): 14-17.

Brem, B., Seger, C., Pacher, T., Hofer, O., Vajrodaya, S. and Greger, H. 2002. Feeding deterrence and contact toxicity of *Stemona alkaloids*- a source of potent natural insecticides. Journal of Agricultural and Food Chemistry. 50(22): 6383-6388.

Briskin, D.P. 2000. Medicinal plants and phytomedicines linking plant biochemistry and physiology to human health. American Society of Plant Physiologists. 124: 507-514.

Brooks, G.F., Carroll, K.C., Butel, J.S., Horse, S.A. and Mietzner, T.A. 2010. Chapter 33 Herpesviruses. In Jawerz, Melnick and Adelberg's Medical Microbiology, 25th (ed). (pp 433-455), New York. United state of America: The McGraw Hill companies, Inc.

Brown, J.C. and Newcomb, W.W. 2011. Herpesvirus capsid assembly: insights from structural analysis. Current Opinion in Virology. 1(2): 142-149.

Brown, S.H. *Senna alata*. [On line]

Available <http://www.lee.ifas.ufl.edu/Hort/GardenPubsAZ/SennaAlata>

Cassia AlataCandlebush.pdf (26 November 2013).

- Brugha, R., Keersmaekers, K., Renton, A. and Meheus, A. 1997. Genital herpes infection: a review. *International Journal of Epidemiology*. 26(4): 698-709.
- Bukke, B., Raghu, P.S., Sailaja, G. and Kedam, T.R. 2011. The study on morphological, phytochemical and pharmacological aspects of *Rhinacanthus nasutus* (L.) Kurz. *Journal of Applied Pharmaceutical Science*. 1(8):26-32.
- Bum, E.N., Ngoupaye, G.T., Talla, E., Dimo, T., Nkantchoua, C.N., Pelanken, M.M. and Taiwe, G.S. 2008. The anticonvulsant and sedative properties of stems of *Cissus quadrangularis* in mice. *African Journal of Pharmacy and Pharmacology*. 2(3): 42-47.
- Burger, A.E., Baldisserotto, B., Teixeira, E.P. and Soares, J. 2000. Action of the extracts of *Pluchea sagittalis* on the absorptive characteristics of the gastrointestinal tract. *Brazilian Archives of Biology and Technology*. 43(1): 95-100.
- Campadelli-Fiume, G., Menotti, L., Avitabile, E. and Gianni, T. 2012. Viral and cellular contributions to herpes simplex virus entry into the cell. *Current Opinion in Virology*. 2(1): 28-36.
- Chaliewchalad, P. 2008. Development of gel for herpes simplex virus type 2 inhibition from *Spirulina platensis* extract. A Bachelor of Science's special project in Biology. Department of Biology, Faculty of Science, Chiang Mai University. Thailand. (In Thai with English abstract).
- Chairul, Praptiwi and Chairul, S.M. 2009. Phagocytosis effectivity test of phenylbutenoid compounds isolated from bangle (*Zingiber cassumunar* Roxb.) rhizome. *Biodiversitas*. 10(1): 40-43.

- Chaiwongsa, R., Ongchai, S., Tangyuenyong, S., Kongtawelert, P., Panthong, A. and Reutrakul, V. 2012. Chondroprotective potential of bioactive compounds of *Zingiber cassumunar* Roxb. against cytokine-induced cartilage degradation in explant culture. *Journal of Medicinal Plants Research*. 6(39): 5204-5213.
- Chan, E.W.C. and Lim, Y.Y. 2006. Antioxidant activity of *Thunbergia laurifolia* tea. *Journal of Tropical Forest Science*. 18(2): 130-136.
- Chan, T., Barra, N.G., Lee, A.J. and Ashkar, A.A. 2011. Innate and adaptive immunity against herpes simplex virus type 2 in the genital mucosa. *Journal of Reproductive Immunology*. 88(2): 210-218.
- Chang, M-L., Liao, L-J., Lin, J-H., Liu, Z-H., HSU, Y-T. and Lee, T-M. 2012. Modulation of antioxidant defense system and NADPH oxidase in *Pluchea indica* leaves by water deficit stress. *Botanical Studies*. 53: 45-54.
- Chao, W-W. and Lin, B-L. 2010. Isolation and identification of bioactive compounds in *Andrographis paniculata* (Chuanxinlian). *Chinese Medicine*. 5(17): 17-25.
- Chattopadhyay, D. and Naik, N.T. 2007. Antivirals of ethnomedicinal origin: structure-activity relationship and scope. *Mini-Reviews in Medicinal Chemistry*. 7(3): 275-301.
- Chen, X., Wang, Z., Yang, Z., Wang, J., Xu, Y. and Tan, R-X. 2011. *Houttuynia cordata* blocks HSV infection through inhibition of NF- κ B activation. *Antiviral Research*. 92(2): 341-345.
- Cheng, C-L and Xu, H. 2006. Antiviral and immunomodulatory properties of *Prunella vulgaris*. *Asia Journal of Traditional Medicines*. 1(1):1-5.

- Cheng, H.Y., Lin, T.C., Ishimaru, K., Yang, C.M., Wang, K.C. and Lin, C.C. 2003. *In vitro* antiviral activity of prodelphinidin B-2 3 3'-di-O-gallate from *Myrica rubra*. *Planta Medica*. 69(10): 953-956.
- Cheng, H-Y., Lin, T-C., Yang, C-M., Wang, K-C., Lin, L-T. and Lin, C-C. 2004. Putranjivain A from *Euphorbia jolkini* inhibits both virus entry and late stage replication of herpes simplex virus type 2 *in vitro*. *Journal of Antimicrobial Chemotherapy*. 53: 577-583.
- Chiampanichayakul, S., Kataoka, K., Arimochi, H., Thumvijit, S., Kuwahara, T., Nakayama, H., Vinitketkumnuen, U. and Ohnishi, Y. 2001. Inhibitory effects of bitter melon (*Momordica charantia* Linn.) on bacterial mutagenesis and aberrant crypt focus formation in the rat colon. *The Journal of Medical Investigation*. 48(1-2): 88-96.
- Chiang, L.C., Chiang, W., Chang, M.Y., Ng, L.T. and Linn, C.C. 2002. Antiviral activity of *Plantago major* extracts and related compounds *in vitro*. *Antiviral Research*. 55(1): 53-62.
- Chiang, L-C., Chang, J-S., Chen, C-C., Ng, L-T., Lin, C-C. 2003a. Anti-herpes simplex virus activity of *Bedens pilosa* and *Houttuynia cordata*. *International Journal of Comparative Medicine East and West*. 31(3): 355-362.
- Chiang, L-C., Cheng, H-Y., Liu, M-C., Chiang, W. and Lin, C-C. 2003b. Antiviral activity of eight commonly used medicinal plants in Taiwan. *The American Journal of Chinese Medicine*. 31(6): 897-905.
- Chitra, K., Sujatha, K., Polisetti, H., Karri, S. and Reddy, C.U. 2011. Standardization of *Coscinium fenestratum* with reference to berberine by high performance

- thin layer chromatography. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 2(2): 226-229.
- Chitravadivu, C., Manian, S. and Kalaichelvi, K. 2009. Qualitative analysis of selected medicinal plants, Tamilnadu, India. *Middle-East Journal of Scientific Research*. 4(3): 144-146.
- Chou, S-C., Su, C-R., Ku, Y-C. and Wu, T-S. 2009. The constituents and their bioactivities of *Houttuynia cordata*. *Chemical and Pharmaceutical Bulletin*. 57(11): 1227-1230.
- Clark, D.N., Poole, B.D., Hammond, D.V., Hedman, T., Catts, D., Stewart, A. and Jonhson, F.B. 2011. Characterization of herpes simplex virus clinical isolate Y3369 as a glycoprotein G variant and its bearing on virus typing. *Virology Journal*. 8: 290-293.
- Coen, D.M. and Schaffer, P.A. 2003. Antiherpesvirus drugs: a promising spectrum of new drugs and drug targets. *Nature Reviews Drug Discovery*. 2: 278-288.
- Compel, P. and Deluca, N.A. 2003. Temperature-Dependent conformational changes in herpes simplex virus ICP4 that affect transcription activation. *Journal of Virology*. 77(5): 3257-3268.
- Constantin, N. and Dodson, M.S. 1999. Two-hybrid analysis of the interaction between the U_L52 and U_L8 subunits of the herpes simplex virus type 1 helicase-primase. *Journal of General Virology*. 80: 2411-2415.
- Cowan, M.M. 1999. Plant products as antimicrobial agents. *Clinical Microbiology reviews*. 12(4): 564-582.

- Crute, J.J. and Lehman, I.R. 1989. Herpes simplex-1 DNA polymerase: identification of an intrinsic 5'→3' exonuclease with ribonuclease H activity. *Journal of Biological Chemistry*. 264(32): 19266-19270.
- Dacosta, X., Kramer, M.F., Zhu, J., Brockman, M.A. and Knipe, D.M. 2000. Construction, phenotypic analysis, and immunogenicity of a U_L5/U_L29 double deletion mutant of herpes simplex virus 2. *Journal of Virology*. 74(17): 7963-71.
- Daberte, I., Barene, I., Rubens, J., Daugavietis, M. and Sazhenova, N. 2011. Stability of soft gelatin capsules containing thick extract of pine needles. *Medicina (Kaunas)*. 47(2): 71-77.
- Daheshia, M., Kanangat, S. and Rouse, B.T. 1998. Production of key molecules by ocular neutrophils early after herpetic infection of the cornea. *Experimental Eye Research*. 67: 619-624.
- Danaher, R.J., Wang, C., Dai, J., Mumper, R.J. and Miller, C.S. 2011. Antiviral effects of blackberry extract against herpes simplex virus type 1. *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and Endodontology*. 112(3): e31-e35.
- Das, K., Dang, R. and Machale, M.U. 2010a. Formulation and evaluation of a novel herbal gel of Stevia extract. *Iranian Journal of Dermatology*. 12(4): 117-122.
- Das, K., Tiwari, R.K.S. and Shrivastava, D.K. 2010b. Techniques for evaluation of medicinal plant products as antimicrobial agent: current methods and future trends. *Journal of Medicinal Plants Research*. 4(2): 104-111.

- Dave, H. and Ledwani, L. 2012. A review on anthraquinones isolated from Cassia species and their applications. *Indian Journal of Natural Products and Resources*. 3(3): 291-319.
- Davison, A.J. 2010. Herpesvirus systematics. *Veterinary Microbiology*. 143(1): 52-69.
- Davood, A.S., Javad, Z.M., Alimohammad, A., Abbas, A.S. and Hamidreza, M. 2012. Evaluation effect of hydroalcoholic extract of *Eucalyptus globulus* and *Artemisia dracunculus* compared with acyclovir against herpes simplex virus type 1. *Medicinal Plant Research*. 2(2): 6-10.
- Deethae, A. 2008. Effect of Mutation in DNA Polymerase Gene of Herpes Simplex Virus Type 1 on Acyclovir Resistance. A Master of Science's Thesis in Biology. Department of Biology, Faculty of Science, Chiang Mai University. Thailand. (In Thai with English abstract).
- Dhale, D.A. and Birari, A.R. 2010. Preliminary screening of antimicrobial and phytochemical studies of *Jatropha gossypifolia* Linn. *Recent Research in Science and Technology*. 2(7): 24-28.
- Dhandapani, R. 2007. Hypolipidemic activity of *Eclipta prostrata* (L.)L. leaf extract in atherogenic diet induced hyperlipidemic rats. *Indian Journal of Experimental Biology*. 45: 617-619.
- Dieu, H. K., Loc, C.B., Yamasaki, S. and Hirata, Y. 2005. The Ethnobotanical and botanical study on *Pseuderatherum platiferum* as a new medicinal plant in the Mekong Delta of Vietnam. *Japan Agricultural Research Quarterly*. 39: 191-196.

- Dobson, A.T., Little, B.B. and Scott, L.L. 1998. Prevention of herpes simplex virus infection and latency by prophylactic treatment with acyclovir in a weanling mouse model. *American Journal of Obstetrics and Gynecology*. 179(2): 527-532.
- Doherty, C.B., Doherty, S.D. and Rosen, T. 2010. Thermoherapy in dermatologic infections. *Journal of the American Academy of Dermatology*. 62(6): 909-926.
- Du, J., He, Z.D., Jiang, R.W., Ye, W.C., Xu, H.X. and But, P.P. 2003. Antiviral flavonoids from the root bark of *Morus alba* L. *Phytochemistry*. 62(8): 1235-1238.
- Dudex, T.E., Torres-Lopez, E., Crumpacker, C. and Knipe, D.M. 2011. Evidence for differences in immunologic and pathogenesis properties of herpes simplex virus 2 strains from the Unites states and South Africa. *Journal of Infectious Disease*. 204(3):1434-1441.
- Edeoga, H.O., Okwu, D.E. and Mbaebie, B.O. 2005. Phytochemical constituents of some nigerial medicinal plants. *African Journal of Biotechnology*. 5(7): 685-688.
- Elanchezhiyan, M., Rajarajan, S., Rajendran, P., Subramanian, S. and Thyagarajan, S.P. 1993. Antiviral properties of the seed extract of an Indian medicinal plant, *Pongamia pinnata*, Linn., against herpes simplex virus: *in-vitro* studies on Vero cell. *Journal of Medical Microbiology*. 38(4): 262-264.
- Falshaw, C.P., Harmer, R.A., Ollis, W.D., Wheeler, R.E., Lalitha, V.R. and Rao, N.V.S. 1969. Natural occurrence of 3-aryl-4-hydroxycoumarins: Part II.

- Phytochemical examination of *Derris scandens* (Roxb.) Benth. *Journal of the Chemical Society C: Organic*. 3:374-382.
- Farahani, M. 2013. Antiviral effect assay of aqueous extract of *Echium Amoenum-L* against HSV-1. *Zahedan Journal of Research in Medical Sciences*. 15(8): 46-48.
- Faral-Tello, P., Mirazo, S., Dutra, C., Pérez, A., Geis-Asteggiate, L., Frabasile, S., Koncke, E., Davyt, D., Cavallaro, L., Heinzen, H. and Arbiza, J. 2012. Cytotoxic, virucidal, and antiviral activity of south american plant and algae extracts. *Scientific World Journal*. 2012:1-5.
- Farnsworth, A. and Johnson, D.C. 2006. Herpes simplex virus gE/gI must accumulate in the trans-Golgi network at early times and then redistribute to cell junctions to promote cell-cell spread. *Journal of Virology*. 80(7):3167–3179.
- Faro, S. 1998. A review of famciclovir in the management of genital herpes. *Infectious Disease in Obstetrics and Gynecology*. 6(1): 38-43.
- Fatahzadeh, M. and Schwartz, R.A. 2007. Human herpes simplex virus infections: epidemiology, pathogenesis, symptomatology, diagnosis, and management. *Journal of the American Academy of Dermatology*. 57(5): 737-762.
- Fathy, I.A-A., Hamdy, M.D. and Ahmed, M.S.A. 2010. Preparation, characterization, and stability studies of piroxicamloaded microemulsions in topical formulations. *Drug Discoveries and Therapeutics*. 4(4): 267-275.
- Flangan, W.M., Papavassiliou, A.G., Rice, M., Hecht, L.B. and Silverstein, S. 1991. Analysis of the herpes simplex virus type 1 promoter controlling the

- expression of U_L38, a true late gene involved in capsid assembly. *Journal of Virology*. 65(2): 769-786.
- Fleming, D.T., Mcquillan, G.M., Johnson, R.E., Nahmias, A.J., Aral, S.O., Lee, F.K. and Louis, M.E. 1997. Herpes simplex virus type 2 in the United states, 1976 to 1994. *Journal of Medicine*. 337(16): 1105-1111.
- Foster, T.P., Rybachuk, G.V. and Kousoulas, K.G. 1998. Expression of the enhanced green fluorescent protein by herpes simplex virus type 1 (HSV-1) as an *in vitro* or *in vivo* marker for virus entry and replication. *Journal of Virological Methods*. 75(2): 151-160.
- Frampton, A.R., Goins, W.F., Nakano, K., Burton, E.A. and Glorioso, J.C. 2005. HSV trafficking and development of gene therapy vectors with applications in the nervous system. *Gene Therapy*. 12(11): 891-901.
- Fritz, D., Venturi, C.R., Cargnin, S., Schripsema, J., Roehe, P.M., Montanha, J.A. and Poser, G.L. 2007. Herpes virus inhibitory substances from *Hypericum connatum* Lam., a plant used in southern Brazil to treat oral lesions. *Journal of Ethnopharmacology*. 113(3): 517-520.
- Furlong, D., Swift, H. and Roizman, B. 1972. Arrangement of herpesvirus deoxyribonucleic acid in the core. *Journal of Virology*. 10(5): 1071-1074.
- Georges, D.V., Naima, Z., Isabelle, R., Gerard, P., Claude, C.J. and Philippe, A. 2002. Evaluation of the cytotoxicity effect of dimethyl sulfoxide (DMSO) on Caco2/TC7 colon tumor cell cultures. *Biological and Pharmaceutical Bulletin*. 25(12): 1600-1603.
- Gescher, K., Kühn, J., Lorentzen, E., Hafezi, W., Derksen, A., Deters, A. and Hensel, A. 2011. Proanthocyanidin-enriched extract from *Myrothamnus*

- flabellifolia* Welw. exerts antiviral activity against herpes simplex virus type 1 by inhibition of viral adsorption and penetration. *Journal of Ethnopharmacology*. 134(2): 468-474.
- Gomes, M.M.R., Cerqueira, D.M., Falcao, D.Q., Menezes, F.S., Wigg, M.D., Mendes, G.S., Martins, F.O., Silva, J.F.M., Kuster, R.M. and Romanos, M.T.V. 2008. *In vitro* anti-HSV-2 activity of ioquercetin from *Hyptis fasciculata* Benth. *Virus Reviews and Research*. 13: 1-15.
- Gomuttapong, S., Pewphong, R., Choeisiri, S., Jaroenporn, S. and Malaivijitnond, S. 2012. Testing of the estrogenic activity and toxicity of *Stephania venosa* herb in ovariectomized rats. *Toxicology Mechanism and Methods*. 22(6): 445-457.
- Gottlieb, J., and Challberg, M.D. 1994. Interaction of herpes simplex virus type 1 DNA polymerase and the U_L42 accessory protein with a model primer template. *Journal of Virology*. 68(8): 4937-4945.
- Garfin, D.E. 2003. Chapter 7 Gel Electrophoresis of Proteins. In John Davey and Mike Lord (ed). (pp 197-268). Oxford University Press, Oxford, UK.
- Greco, A., Diaz, J-J., Thouvenot, D. and Morfin F. 2007. Novel targets for the development of anti-herpes compounds. *Infectious Disorder-Drug Targets*. 7(1): 11-18.
- Griffiths, A. 2011. Slipping and sliding: Frameshift mutations in herpes simplex virus thymidine kinases and drug-resistant. *Drug Resistance Update*. 14(6): 251-259

- Guo, H., Shen, S., Wang, L. and Deng, H. 2010. Role of tegument proteins in herpesvirus assembly and egress. *Protein Cell*. 1(11): 987–998.
- Gupta, M., Sharma, S., Gautam, A.K. and Bhadauria, R. 2011. *Momordica charanta* Linn. (Karela): Nature's silent healer. *International Journal of Pharmaceutical Sciences Review and Reseach*. 11(1): 32-37.
- Gupta, N., Augustine, M. and Jayaseelan, E. 2002. Eczema herpeticum in two elderly patients. *Indian Journal of Dermatology, Venereology and Leprology*. 68(5): 306-308.
- Gupta, R., Warren, T. and Wald, A. 2007. Genital herpes. *The lancet*. 21227-2137.
- Gupta, V.K., Fatima, A., Faridi, U., Negi, A.S., Shanker, K., Kumar, J.K., Rahuja, N., Luqman, S., Sisodia, B.S., Saikia, D., Darokar, M.P. and Khanuja, S.P.S. 2008. Antimicrobial potential of *Glycyrrhiza glabra* roots. *Journal of Ethnopharmacology*. 116(2): 377-380.
- Hamatake, R.K., Bifano, M., Hurlburt, W.W. and Tenney, D.J. 1997. A functional interaction of ICP8, the herpes simplex virus single-stranded DNA-binding protein, and the helicase-primase complex that is dependent on the presence of the U_L8 subunit. *Journal of General Virology*. 78: 857-865.
- Hancock, M.H., Mossman, K.L. and Smiley, J.R. 2009. Cell Fusion-Induced Activation of interferon-stimulated genes is not required for restriction of a herpes simplex virus VP16/ICP0 mutant in heterokarya formed between permissive and restrictive cells. *Journal of Virology*. 83(17): 8976-8979.
- Harden, E.A., Falshaw, R., Carnachan, S.M., Kern, E.R. and Prichard, M.N. 2009. Virucidal activity of polysaccharide extracts from four algal species against herpes simplex virus. *Antiviral Research*. 83(3): 282-289.

Hayashi, K., Niwayama, S., Hayashi, T., Nago, R., Ochiai, H. and Morita, N. 1988. *In vitro* and *in vivo* antiviral activity of Scopadulcis acid B from *Scoparia dulcis*, Scophulariaceae, against herpes virus type 1. *Antiviral Research*. 9(6): 345-354.

Higgs, M.R., Preston, V.G. and Stow, N.D. 2008. The U_L 15 protein of herpes simplex virus type 1 is necessary for the localization of the U_L28 and U_L33 proteins to viral DNA replication centers. *Journal of General Virology*. 89: 1709-1715.

Hosamani, P.A., Lakshman, H.C., Sandeepkumar, K. and Hosamani, R.C. 2011. Antimicrobial activity of leaf extract of *Andrographis paniculata* Wall. *Science Research Reporter*. 1(2): 92-95.

Hudson, J.B., Anani, K., Lee, M.X., Souza, C.D., Arnason, J.T. and Gbeassor, M. 2000. Further investigations on the antiviral activities of medicinal plants of Togo. *Pharmaceutical Biology*. 38(1): 46-50.

Hung, S-L., Wang, Y-H., Chen, H-W., Lee, P-L. and Chen, Y-T. 2002. Analysis of herpes simplex virus entering into cells of oral origin. *Virus Research*. 86(1-2): 56-69.

Hunt R. 2013. *Virology, Herpes viruses, microbiology and immunology*. University of South Carolina School of Medicine. Available at September 12, 2013.

Igbinosa, O.O., Igbinosa, E.O. and Aiyegoro, O.A. 2009. Antimicrobial activity and phytochemical screening of stem bark extracts from *Jatropha curcas* (Linn). *African Journal of Pharmacy and Pharmacology*. 3(2): 58-62.

Iswantini, D., Siltonga, R.F., Martatilofa, E. and Darusman, L.K. 2011. *Zingiber cassumunar*, *Guazuma ulmifolia*, and *Murraya paniculata* extracts as

- antiobesity: *in vitro* inhibitory effect on pancreatic lipase activity. *Hayati Journal of Biosciences*. 18(1): 6-10.
- Itzhaki, R.F., Lin, W-R, L., Shang, D., Wilcock, G.K., Faragher, B. and Jamieson, G.A. 1997. Herpes simplex virus type 1 in brain and risk of Alzheimer's disease. *The Lancet*. 349(9058): 241-244.
- Jain, P.K. and Joshi, H. 2012. Coumarin: chemical and pharmacological profile. *Journal of applied pharmaceutical science*. 2(6): 236-240.
- James, O., Nnacheta, O.P. and Okpara, M. 2009. Cytotoxicity and antioxidant screening of some selected Nigerian medicinal plants. *Asian Journal of Pharmaceutical and Clinical Research*. 2(4): 48-53.
- Jansakul, C., Srichanbarn, A. and Saelee, A. 1997. Some pharmacological studies of a hypotensive fraction from *Derris scandens*. *Journal of the Science Society of Thailand*. 23: 323-334.
- Jassim, S.A.A. and Naji, M.A. 2003. A review: Novel antiviral agents: a medicinal plant perspective. *Journal of Applied Microbiology*. 95(3): 412-427.
- Jayathirtha, M.G. and Mishra, S.H. 2004. Preliminary immunodulatory activities of methanol extracts of *Eclipta alba* and *Centella asiatica*. *Phytomedicine*. 11(4): 361-365.
- Jiang, R-W., Hon, P-M., Xu, Y-T., Chan, Y-M., Xu, H-X., Shaw, P-C. and But, P.P-H. 2006. Isolation and chemotaxonomic significance of tuberostmospironine-type alkaloids from *Stemona tuberosa*. *Phytochemistry* 67: 52057.
- Johnsirani, V., Sathiyabama, J., Rajendran, S., Christy, S.M.L. and Jeyasundari, J. 2013. The effect of *Eclipta alba* leaves extract on the corrosion inhibition

- process of carbon steel in sea water. *Portugaliae electrochimica acta*. 31(2): 95-106.
- Johnson, D.C., Wisner, T.W. and Wright, C.C. 2011. Herpes simplex virus glycoproteins gB and gD function in a redundant fashion to promote secondary envelopment. *Journal of Virology*. 85(10): 4910-4926.
- Joseph, B. and Raj, S.J. 2011. An overview: Pharmacognostic properties of *Phyllanthus amarus* Linn. *International Journal of Pharmacology*. 7(1): 40-45.
- Joshi, B., Sah, G.P., Basnet, B.B., Bhatt, M.R., Sharma, D., Subedi, K., Randey, J. and Malla, R. 2011. Phytochemical extraction and antimicrobial properties of different medicinal plants: *Ocimum sanctum* (Tulsi), *Eugenia caryophyllata* (Clove), *Achyranthes bidentata* (Datiwan) and *Azadirachta indica* (Neem). *Journal of Microbiology and Antimicrobials*. 3(1): 1-7.
- Kadir, F., Othman, F., Abdulla, M.A., Hussan, F. and Hassandarvish, P. 2011. Effect of *Tinospora crispa* on thioacetamide-induced liver cirrhosis in rats. *Indian Journal of Pharmacology*. 43(1): 64-68.
- Kakuta, D., Hitotsuyanagi, Y., Matsuura, N., Fukaya, H. and Takeya, K. 2003. Structures of new alkaloids sessilifoliamides A-D from *Stemona sessilifolia*. *Tetrahedron*. 59: 779-7786.
- Karamać, M., Kosińska, A., Rybarczyk, A. and Amarowicz, R. 2007. Extraction and chromatographic separation of tannin fractions from tannin-rich plant material. *Polish Journal of Food and Nutrition Sciences*. 57(4): 471-474.
- Karasneh, G.A. and Shukla, D. 2011. Herpes simplex virus infects most cell types in vitro: clues to its success. *Virology Journal*. 8: 481.

- Kelly, B.J., Diefenbach, E., Fraefel, C. and Diefenbach, R.J. 2012. Identification of host cell proteins which interact with herpes simplex virus type 1 tegument protein pUL37. *Biochemical and Biophysical Research Communications*. 417(3): 961-965.
- Kent, J.R., Kang, W., Miller, C.G. and Fraser, N.W. 2003. Herpes simplex virus latency-associated transcript gene function. *Journal of Neurovirology*. 9: 285-290.
- Kernan, M.R., Sendl, A., Chen, J.L., Jolad, S.D., Blanc, P., Murphy, J.T., Stoddart, C.A., Nanakorn, W., Balick, M.J. and Rozhon, E.J. 1997. Two new lignans with activity against influenza virus from the medicinal plant *Rhinacanthus nasutus*. *Journal of Natural Products*. 60(6): 635-637.
- Khan, M.T.H., Ather, A., Thompson, K.D. and Gambari, R. 2005. Extracts and molecules from medicinal plants against herpes simplex virus. *Antiviral Research*. 67(2): 107-119.
- Khanna, K.M., Lepisto, A.J. and Hendricks, R.L. 2004. Immunity to latent viral infection: many skirmishes but few fatalities. *Trends in Immunology*. 25(5): 230-234.
- Khanna, V.G. and Kannabiran, K. 2007. Larvicidal effect of *Hemidemus indicus*, *Gymnema sylvestre*, *Eclipta prostrata* against *Culex quinquefasciatus* mosquito larvae. *African Journal of Biotechnology*. 6(3): 307-311.
- Kiani, S., Shamsi-Shahrabadi, M., Ataei, A. and Sajjadi, N. 2010. *Peganum harmala* seed extract can prevent HSV-1 replication in vitro. *Iranian Journal of Virology*. 4(3): 31-36.

Kim, G.S., Kim, D.H., Lim, J.J., Lee, J.J., Han, D.Y., Lee, W.M., Jung, W.C., Min, W.G., Won, C.G., Rhee, M.H., Lee, H.J. and Kim, S. 2012. Biological and antibacterial activities of the natural herb *Houttuynia cordata* water extract against the intracellular bacterial pathogen *Salmonella* within the Raw 264.7 macrophage. *Biological and Pharmaceutical Bulletin*. 31(11): 2012-2017.

Kimberlin, D. 2004. Herpes simplex virus, meningitis and encephalitis in neonates. *Herpes*. 2: 65A-76A.

Kitamura, K., Honda, M., Yoshizaki, H., Yamamoto, S., Nakane, H., Fukushima, M., Ono, K. and Tokunaga, T. 1998. Baicalin, an inhibitor of HIV-1 production *in vitro*. *Antiviral Research*. 37(2): 131-140.

Klawikkan, N., Nukoolkarn, V., Jirakahanakit, N., Yoksan, S., Wiwar, C. and Thirapannethee, K. 2011. Effect of Thai medicinal plant extracts against dengue virus *in vitro*. *Mahidol University Journal of Pharmaceutical Science*. 38(1-2): 13-18.

Klinedinst, D.K., Challberg, M.D. 1994. Helicase-primase complex of herpes simplex virus type 1: a mutation in the U_L52 subunit abolishes primase activity. *Journal of Virology*. 68(6): 3693-3701.

Kodithala, S., Kiranmai, M., Dorababu, N. and Ibrahim, M. 2012. Pharmacognostical, phytochemical and analgesic activity of *Eclipta prostrata* L. (Asteraceae). *Journal of Global Trends in Pharmaceutical Sciences*. 3(3): 740-746.

Kott, V., Barbini, L., Munoz, J.D., Vivot, E., Cruanes, J., Martino, V., Ferraro, G., Cavallaro, L. and Campos, R. 1998. Antiviral activity in Argentine medicinal plants. *Journal of Ethnopharmacology*. 64(1):79-84.

Kriebs, J.M. 2008. Understanding herpes simplex virus: transmission, diagnosis, and considerations in pregnancy management. *Journal of Midwifery and Women's Health*. 53(3): 202-208.

Kumar, A., Dora, J., Singh, A. and Tripathi, R. 2012. A review on king of bitter (Kalmegh). *International Journal of Research in Pharmacy and Chemistry*. 2(1): 116-124.

Kumar, A., Ilavarasan, R., Jayachandran, T., Decaraman, M., Aravindhan, P., Padmanabhan, N. and Krishnan, M.R.V. 2009. Phytochemicals investigation on a tropical plant, *Syzygium cumini* from Kattuppalayam, Erode district, Tamil Nadu, South India. *Pakistan Journal of Nutrition*. 8(1): 83-85.

Kumar, T.S., Anandan, A. and Jegadeesan, M. 2012. Identification of chemical compounds in *Cissus quadrangularis* L. variant-I of different sample using GC-MS analysis. *Archives of Applied Science Research*. 4(4): 1782-1787.

Kumari, C.S., Govindasamy, S. and Sukumar, E. 2006. Lipid lowering activity of *Eclipta alba* in experimental hyperlipidemia. *Journal of Ethnopharmacology*. 105(3): 332-335.

Kunsorn, P., Ruangrunsi, N., Lilipun, V., Khanboon, A. and Rungsihirurar, K. 2013. The identities and anti-herpes simplex virus activity of *Clinacanthus nutans* and *Clinacanthus siamensis*. *Asian Pacific Journal of Tropical Biomedicine*. 3(4): 284-290.

- Kurokawa, M., Basnet, P., Ohsugi, M., Hozumi, T., Kadota, S., Namba, T., Kawana, T. and Shiraki, K. 1999. Anti-herpes simplex virus activity of moronic acid purified from *Rhus jananica* *in vitro* and *in vivo*. *The Journal of Pharmacology and Experimental Therapeutics*. 289(1): 72-78.
- Lachmann, R. 2003. Herpes simplex virus latency. *Expert Reviews in Molecular Medicine*. 5(29): 1-14.
- Lau, K-M., Lee, K-M., Koon, C-M., Cheung, C.S-F., Lau, C-P., Ho, H-M., Lee, M.Y-H., Au, S.W-N., Cheng, C.H-K., Lau, C.B-S., Tsui, S.K-W., Wan, D.C-C., Waye, A.M-Y., Wong, K-B., Wong, C-K., Lam, C.W-K., Leung, P-C. and Fung, K-P. 2008. Immunomodulatory and anti-SARS activities of *Houttuynia cordata*. *Journal of Ethnopharmacology*. 118(1):79-85.
- Lee, M.K., Ha, N.R., Yang, H., Sung, S.H., Kim, G.H. and Kim, T.C. 2008. Antiproliferative activity of triterpenoids from *Eclipta prostrata* on hepatic stellate cells. *Phytomedicine*. 15(9): 775-780.
- Lee, S.Y., Eom, S.H., Kim, Y.K., Park, N.I. and Park, S.U. 2009. Cucurbitane-type triterpenoids in *Momordica charantia* Linn. *Journal of Medicinal Plants Research*. 3(13): 1264-1269.
- Leewanich, P., Worachartcheewan, A., Prachayasiikul, S. and Prachayasittikul, V. 2011. Anticancer and antioxidative activities of *Stephania venosa*. *European Journal of Scientific Research*. 51(2): 150-156.
- Lehtineu, M. (1986). HSV infected RAJI-cell specify HSV specific immediate early and/or early DNA-binding protein. *Archives of Virology*. 87(1-2): 107-118.

Li, Z.X., Sturm, S., Stuppner, H., Schraml, E., Moser, S.A., Siegl, V. and Pfragner, R. 2007. The dichloromethane fraction of *Stemona tuberosa* Lour inhibits tumor cell growth and induces apoptosis of human medullary thyroid carcinoma cells. *Biologics: Targets and Therapy*. 1(4): 455-463.

Lipipun, V., Kurokawa, M., Suttisri, R., Taweechotipart, P., Pramyothin, P., Hattori, M, Shiraki, K. 2003. Efficacy of Thai medicinal plant extracts against herpes simplex virus type 1 infection *in vitro* and *in vivo*. *Antiviral Research*. 60(3):175-180.

Locatelli, M., Tammara, F., Menghini, L., Carlucci, G., Epifano, F. and Genovese, S. 2009. Anthraquinone profile and chemical fingerprint of *Rhamnus saxatilis* L. from Italy. *Phytochemistry Letters*. 2(4): 223-226.

Lokonis, C.J., Burkham, J., Weller, S.K. 1997. Herpes simplex virus type 1 prereplicative sites are a heterogeneous population: only a subset are likely to be precursors to replication compartments. *Journal of Virology*. 71(6): 4771-4781.

Lu, Y., Berthod, A. and Pan, Y. 2008. Rapid screening of bioactive components from *Zingiber cassumunar* using elution-extrusion counter-current chromatography. *Journal of Chromatography A*. 1181(1-2): 33-44.

Lückemeyer, D.D., Müller, V.D.M., Moritz, M.I.G., Stoco, P.H., Schenkel, E.P., Barardi, C.R.M., Reginatto, F.H. and Simões, C.M.O. 2012. Effects of *Ilex paraguariensis* A.St.Hil. (yerba mate) on herpes simplex virus type 1 and 2 replication. *Phytotherapy Research*. 26(4): 535-540.

- Lucotte, G., Bathelier, C., Lespiaux, V., Bali, C. and Champenois, T. 1995. Detection and genotyping of herpes simplex virus types 1 and 2 by polymerase chain reaction. *Molecular and Cellular Probes*. 9(5): 287-290.
- Madhavan, H.N., Priya, K., Anand, A.R. and Therese, L. 1999. Detection of herpes simplex virus (HSV) genome using polymerase chain reaction (PCR) in clinical samples comparison of PCR with standard laboratory methods for the detection of HSV. *Journal of Clinical Virology*. 14(2): 145-151.
- Madureira, A.M., Ascenso, J.R., Valdeira, L., Duarte, A., Frade, J.P., Freitas, G. and Ferreira, M.J. 2003. Evaluation of the antiviral and antimicrobial activities of triterpenes isolated from *Euphorbia segetalis*. *Journal of Asian Natural Products Research*. 17(5): 375-380.
- Mahabusaraka, W., Deachathai, S., Phongpaichit, S., Jansakul, C. and Taylor, W.C. 2004. A benzyl and isoflavone derivatives from *Derris scandens* Benth. *Phytochemistry*. 65: 1185-1191.
- Males, Z. and Medic-Saric, M. 2001. Optimization of TLC analysis of flavonoids and phenolic acids of *Helleborus atrorubens* Waldst. et Kit. *Journal of Pharmaceutical and Biomedical Analysis*. 24(3): 353-359.
- Malla, M.Y., Sharma, M., Saxena, R.C., Mir, M.I., Mir, A.H. and Bhat, S.H. 2013. Phytochemical screening and spectroscopic determination of total phenolic and flavonoid contents of *Eclipta alba* Linn. *Journal of Natural Product and Plant Resources*. 3(2): 86-91.

- Mandal, P., Pujol, C.A., Carlucci, M.J. and Chattopadhyay, K. 2008. Anti-herpetic activity of a sulphated xylomannan from *Scinaaia hatei*. *Phytochemistry*. 69(11): 2193-2199.
- Manservigi, R., Spear, P.G. and Buchan, A. 1977. Cell fusion induced by herpes simplex virus is promoted and suppressed by different viral glycoproteins. *Proceedings of the National Academy of Sciences of the United States of America*. 74(9): 3913-3917.
- Mardberg, K., Trybala, E., Tufaro, F. and Bergstrom, T. 2002. Herpes simplex virus type 1 glycoprotein C is necessary for efficient infection of chondroitin sulfate-expressing gro2C cells. *Journal of General Virology*. 83(Pt2): 291-300.
- Marques, A. and Straue, S. 2000. Herpes simplex type 2 infections-an update. *Journal of Advances in Internal Medicine*. 46; 327-359.
- Mathur, D., Agrawal, R.C. and Shrivastava, V. 2011. Phytochemical screening and determination of antioxidant potential of fruits extracts of *Withania coagulans*. *Recent Research in Science and Technology*. 3(11): 26-29.
- Matsui, K., Wirotasangthong, M., Thanakijcharoenpath, W., Mungmee, C. and Nishikawa, A. 2010. Inhibitory effects of *Schefflera leucantha* extract on production of allergic mediators by langerhans cells and mast cells. *Journal of Investigation Allergology and Clinical Immunology*. 20(6): 463-468.
- Maurya, S.K., Ray, K. and Srivastava, A.K. 2009. Antidyslipidaemic activiey of *Glycyrrhiza glabra* in high fructose diet induced dsylipidaemic Syrian golden hamsters. *Indian Journal of Clinical Biochemistry*. 24(4): 404-409.

- Mazzanti, G., Battinelli, L., Pompeo, C., Serrilli, A.M., Rossi, R., Sauzullo, I., Mengoni, F. and Vullo, V. 2008. Inhibitory activity of *Melissa officinalis* L. extract on herpes simplex virus type 2 replication. *Natural Product Research*. 22(16): 1433-1440.
- Melancon, J.M., Luna, R.E., Foster, T.P. and Kousoulas, K.G. 2005. Herpes simplex virus type 1 gK Is required for gB-mediated virus-induced cell fusion, while neither gB and gK nor gB and U_L 20p function redundantly in virion de-envelopment. *Journal of Virology*. 79(1): 299-313.
- Meyer, J.J.M., Afolayan, A.J., Taylor, M.B. and Engelbrecht, L. 1996. Inhibition of herpes simplex virus type 1 by aqueous extracts from shoots of *Helichrysum aureonitens* (Asteraceae). *Journal of Ethnopharmacology*. 52(1): 41-43.
- Mirunalini, S. and Krishnaveni, M. 2011. Coumarin: a plant derived polyphenol with wide biomedical applications. *International Journal of PharmTech Research*. 3(3): 1693-1696.
- Mishra, G., Srivastava, S. and Nagori, B.P. 2010. Pharmacological and therapeutic activity of *Cissus quadrangularis*: an overview. *International Journal of PharmTech Research*. 2(2): 1298-1310.
- Mishra, R.N. and Joshi, D. 2011. Jiao Gu Lan (*Gynostemma pentaphyllum*): The Chinese Rasayan-current research scenario. *International Journal of Research in Pharmaceutical and Biomedical Sciences*. 2(4): 1483-1502.
- Mohamed, I.E.T., Nur, E.B.E.S. and Abdelrahman, M.E.N. 2010. The antibacterial, antiviral activities and phytochemical screening of some Sudanese medicinal plants. *EurAsian Journal of BioScience*. 4(8): 8-16.

- Mohanlall, V., Steenkamp, P. and Odhav, B. 2011. Isolation and characterization of anthraquinone derivatives from *Ceratotherca triloba* (Bernh.) Hook.f. *Journal of Medicinal Plants Research*. 5(14): 3132-3141.
- Mohideen, S., Sasikala, E. and Aruh.P. 2005. Pharmacognosy of *Cassia. Alata* Linn – leaves. *Ancient Science of Life*. 24(4): 192-198.
- Montgomery, R.T., Warner, M.S., Lum, B.J. and Spear, P.G. 1996. Herpes simplex virus-1 entry into cells mediated by a novel member of the TNF/NGF receptor family. *Cell*. 1(87): 427-436.
- More, B.H., Sakharwade, S.N., Tembhurne, S.V. and Sakarakar, D.M. 2013. Evaluation for skin irritancy testing of developed formulations containing extract of *Butea monosperma* for its topical application. *International Journal of Toxicology and Applied Pharmacology*. 3(1): 10-13.
- Morello, C.S., Levinson, M.S., Kraynyak, K.A. and Spector, D.H. 2011. Immunization with herpes simplex virus 2 (HSV-2) genes plus inactivated HSV-2 is highly protective against acute and recurrent HSV-2 disease. *Journal of Virology*. 85(7): 3461-3472.
- Morfin, F. and Thouvenot, D. 2003. Herpes simplex virus resistance to antiviral drugs. *Journal of Clinical Virology*. 26(1): 29-37.
- Murakami, A., Jiwajinda, S., Koshimizu, K. and Ohigashi, H. 1995. Screening for in vitro anti-tumor promoting activities of edible plants from Thailand. *Cancer Letters*. 95(1-2):139-146.
- Nakama, S., Tamaki, K., Ishikawa, C., Tadano, M. and Mori, N. 2012. Efficacy of *Bidens pilosa* extract against herpes simplex virus infection *in vitro*

- and *in vivo*. Evidence-Based Complementary and Alternative Medicine. 2012: 1-10.
- Nakano, M., Kurokawa, M., Hozumi, T., Saito, A., Isa, M., Morohashi, M., Namba, T., Kawana, T. and Shiraki, K. 1998. Suppression of recurrent genital herpes simplex virus type 2 infection by *Rhus javanica* in guinea pigs. *Antiviral Research*. 39(1): 25-33.
- Navaneethan, U., Lancaster, E., Venkatesh, P.G., Wang, J. and Neff, G.W. 2010. Herpes simplex virus hepatitis-It's high time we consider empiric treatment. *Journal of Gastrointestinal and Liver Diseases*. 20(1): 93-96.
- Nawawi, A., Ma, C., Nakamura, N., Hattori, M., Kurokawa, M., Shirak, K., Kashiwada, N. and Ono, M. 1999. Anti-herpes simplex virus activity of alkaloids isolated from *Stephania cepharantha*. *Biological and Pharmaceutical Bulletin*. 22(3): 268-274.
- Ni, X-L., Peng, L. and Liu, W-Z. 2007. Structures, components and functions of secretory tissues in *Houttuynia cordata*. *Journal of Integrative Plant Biology*. 49(12): 1734-1745.
- Nikam, P.S., Nika, S.V., Sontakke, A.V. and Khanwelkar, C.C. 2011. Role of *Phyllanthus amarus* treatment in hepatitis-C. *Biomedical Research*. 22(3): 319-322.
- Nikomtat, J. 2010. Study on mode of inhibition of herpes simplex virus type 1 and 2 *in vitro* by some highland medicinal plants. A doctor of philosophy in biotechnology's Thesis in Biology. Graduate school, Chiang Mai University. Thailand.

- Nikomtat, J., Meepowpan, P. and Tragoolpua, T. 2011a. Inhibition of *Inula cappa* (Ham. Ex.D. Don) DC. extracts on herpes simplex virus infection *in vitro*. African Journal of Microbiology Research. 5(24): 4049-4058.
- Nikomtat, J., Thongwai, N., Lumyong, S. and Tragoolpua, Y. 2011b. Anti-herpes simplex virus type 2 of *Drymaria diandra* Blume medicinal plant. Chiang Mai Journal of Science. 38(3): 439-452.
- Nirmala, P. and Selvaraj, T. 2011. Anti-inflammatory and anti-bacterial of *Glycyrrhiza glabra* L. Journal of Agricultural Technology. 7(3): 815-823.
- Noridayu, A.R., Hii, Y.F., Faridah, A., Khozirah, S. and Lajis, N. 2011. Antioxidant and antiacetylcholinesterase activities of *Pluchea indica* Less. International Food Research Journal. 18(3): 925-929.
- Obianime, A.W. and Uche, F.I. 2009. The phytochemical constituents and the effects of methanol extract of *Phyllanthus amarus* leaves (kidney stone plant) on the hormonal parameters of male guinea pigs. Journal of Applied Sciences and Environmental Management. 13(1): 5-9.
- Odey, M.O., Iwara, I.A., Udiba, U.U., Johnson, J.T., Inekwe, U.V., Asenye, M.E. and Victor, O. 2012. Preparation of plant extracts from indigenous medicinal plants. International Journal of Science and Technology. 1(12): 688-692.
- Ogasawara, M., Suzutani, T., Yoshida, I. and Azuma, M. 2001. Role of the U_L25 gene product in packaging DNA into the herpes simplex virus capsid: location of U_L25 product in the capsid and demonstration that it binds DNA. Journal of Virology. 75(3):1427-1436.

- Ogbonnia, S.O., Enwuru, N.V., Onyemenem, E.U., Oyedele, G.A. and Enwuru, C.A. 2008. Phytochemical evaluation and antibacterial profile of *Treculia africana* Decne bark extract on gastrointestinal bacterial pathogens. *African Journal of Biotechnology*. 7(10): 1385-1389.
- Ohta, S., Ono, F., Shiomi, Y., Nakao, T., Aozasa, O., Nagate, T., Kitamura, K., Yamaguchi, S., Nishi, M. and Miyata, H. 1998. Anti-herpes simplex virus substances produced by the marine green alga, *Dunaliella primolecta*. *Journal of Applied Phycology*. 10(4): 349-356.
- Ojo, O.O., Oluyeye, J.O. and Famurewa, O. 2009. Antiviral properties of two Nigerian plants. *African Journal of Plant Science*. 3(7): 157-159.
- Ooi, L.S., Sun, S.S. and Ooi, V.E. 2004. Purification and characterization of a new antiviral protein from the leaves of *Pandanus amaryllifolius* (Pandanaceae). *The International Journal of Biochemistry and Cell Biology*. 36(8): 1440-1446.
- Osonwa, U.E., Umeyor, C.E., Okon, U.V., Uronnachi, E.M. and Nwakile, C.D. 2012. Stability studies on the aqueous extract of the fresh leaves of *Combretum Micrathum* G. Don used as antibacterial agent. *Journal of Chemistry and Chemical Engineering*. 6(5): 417-424.
- Padma, P., Pramod, N.P., Thyagarajan, S.P. and Khosa, R.L. 1998. Effect of the extract of *Anona muricata* and *Petunia nyctaginiflora* on herpes simplex virus. *Journal of Ethnopharmacology*. 61(1): 81-83.
- Palamara, A.T., Perno, C.F., Ciriola, M.R., Dini, L., Balestra, E., D'Agostini, C., Francesco, D.I., Favalli, P., Rotilio, C. and Garaci, G. 1995. Evidence

for antiviral activity of glutathione: *in vitro* inhibition of Herpes simplex type 1 replication. *Antiviral Research*. 27(3): 237-253.

Palipoch, S., Jiraungkoorskul, W., Tansatit, T., Preyavichyapugdee, N., Jaikua, W. and Kosai, P. 2011. Effect of *Thunbergia laurifolia* (Linn) leaf extract dietary supplement against lead toxicity in *Nile Tilapia (Oreochromis niloticus)*. *World Journal of Fish and Marine Sciences*. 3 (1): 1-9.

Pandey, M.K., Singh, G.N., Sharma, R.K. and Lata, S. 2012. Phytochemical standardization of *Eclipta alba* (L) Hassk: an ayurvedic drug. *World Journal of Pharmacy and Pharmaceutical Sciences*. 1(2): 569-584.

Panichayupakaranant, P. and Intaraksa, N. 2003. Hydroxyanthracene derivatives in *Cassia alata* Songklanakarin. *Journal of Science and Technology*. 25(4): 497-502.

Park, H-J., Kurokawa, M.K., Shiraki, K., Nakamura, N., Choi, J-S. and Hattori, M. 2005. Antiviral activity of the marine alga *Symphyocladia latiuscula* against Herpes simplex virus (HSV-1) *in vitro* and its therapeutic efficacy against HSV-1 infection in mice. *Biological and Pharmaceutical Bulletin*. 28(12): 2258-2262.

Patel, A.H., Rixon, F.J., Cunningham, C. and Davison, A.J. 1996. Isolation and characterization of herpes simplex virus type 1 mutants defective in the UL6 gene. *Virology*. 217(1):111-123.

Patel, N., Swati, P. and Krishnamurthy, R. 2013. Indian *Tinospora* species: natural immunomodulators and therapeutic agents. *International Journal of Pharmaceutical Biological and Chemical Sciences*. 2(2): 01-09.

Penkert, R.R. and Kalejta, R.F. 2011. Tegument protein control of latent herpes virus establishment and animation. *Herpesviridae*. 2(1): 1-20.

Pereira, V.S., Moizeis, R.N., Femandes, T.A., Araujo, J.M., Meissner, R.V. and Femandes, J.V. 2012. Herpes simplex virus type 1 is the main cause of genital herpes in women of Natal, Brazil. *European Journal of Obstetrics and Gynecology and Reproductive Biology*. 161(2): 190-193.

Person, S., Laquerre, S., Desai, P. and Hempel, J. 1993. Herpes simplex virus type 1 capsid protein, VP21, originates within U_L26 open reading frame. *Journal of General Virology*. 74: 2269-2273.

Piret, J. and Boivin, G. 2011. Resistance of herpes simplex viruses to nucleoside analogues: mechanisms, prevalence, and management. *Antimicrobial Agents and Chemotherapy*. 55(2): 459-472.

Pithayanukul, P., Laovachirasuwan, S., Bavovada, R., Pakmanee, N. and Suttisri, R. 2004. Anti-venom potential of butanolic extract of *Eclipta prostrate* against Malayan pit viper venom. *Journal of Ethnopharmacology*. 90(2-3): 347-352.

Pithon, M.M. and Andrade, A.C.D.V. 2010. Primary herpetic gingivostomatitis in an adult patient using an orthodontic appliance. *International Journal of Odontostomatology*. 4(2): 157-160.

Potduang, B., Chongsiriroeg, C., Benmart, Y., Giwanon, R., Supatanakul, W. and Tanpanich, S. 2007. Biological activities of *Schefflera leucantha*. *African Journal of Traditional Complementary and Alternative Medicines*. 4(2): 156-164.

- Preston, C.M., Frame, M.C. and Campbell, M.E.M. 1998. A complex formed between cell components and an HSV structural polypeptide binds to a viral immediate early gene regulatory DNA sequence. *Cell*. 52(3):425-434.
- Raja, A.X.V. and Sama, K. 2012. Phytochemical and biochemical analysis of the plat extract of *Acacia concinna* (Wild). *International Journal of Pharmaceutical Research and Development*. 3(12): 136-139.
- Rajbhandari, M., Wegner, U., Jülich, M., Schöpke, T. and Mentel, R. 2001. Screening of Nepalese medicinal plants for antiviral activity. *Journal of Ethnopharmacology*. 74(3): 251-255.
- Rajcáni, J. and Vojvodová. 1998. The role of herpes simplex virus glycoproteins in the virus replication cycle. *Acta Virologica*. 42(2): 103-118.
- Ramasubbu, R., Prabha, A.C. and Kumuthakalavalli, R. 2012. Seed biology of *Coscinium fenestratum* (Gaertn.) Colebr.- A critically endangered medicinal plant of western ghats. *Journal of Medicinal Plants Research*. 6(6): 1094-1096.
- Rao, A.U., Sreenivasulu, M., Chengaiah, B., Ravikrishna, D., Reddy, K.J., Sangeetha, K. and Chetty, C.M. 2010. *Rhinacanthus nasutus* (Linn.) Kurz: a comprehensive review. — *International Journal of Pharmaceutical Research and Developments*. 2(7): 974-9446.
- Reed, J. Muench, H. 1938. A simple method of estimating fifty percent endpoints. *The American Journal of Tropical Medicine and Hygiene*. 27(3):493-497.
- Reichling, J., Neuner, A., Sharaf, M., Harkenthl, M. and Schnitzler, P. 2009. Antiviral activity of *Rhus aromatic* (fragrant sumac) extracts against two types of hepes simplex viruses in cell culture. *Pharmazie*. 64(8): 538-541.

- Riley, L.E. 1998. Herpes simplex virus. *Seminar in Perinatology*. 22(4): 284-292.
- Rispail, N., Morris, P. and Webb, K.J. 2005. Phenolic compound: extraction and analysis. Chapter 7.5. A.J. Marquez (Ed) *Lotus japonicas Handbook*. Pp. 349-355.
- Robin, V., Irurzun, A., Amoros, M., Boustie, J. and Carrasco, L. 2002. Antipoliavirus flavonoids from *Psiadia dentata*. *Antiviral Chemistry and Chemotherapy*. 12(5): 283-291.
- Roizman, B. and Spears, A.E. 1996. Herpes simplex viruses and their replication. In B.N. Fields, D.M. Knipe, R.M. Chanock, M.S. Hirsch, J.L. Melnick, T.P. Monath, Roizman, B. (Eds.). *Virology vol.2* (pp. 2231-2295). 3rd edition. Lippincott–Raven Publishers, Philadelphia.
- Roizman, B., Knipe, D.M. and Whitley, R.J. 2007. Herpes simplex viruses. In Fields, D.M. Knipe and P.M. Howley (Eds). *Virology* (pp. 2501–2601). 5th edition. Lippincott Williams and Wilkins, Philadelphia:
- Rukachaisirikul, V., Sukpondma, Y., Jansakul, C. and Taylor, W.C. 2002. Isoflavone glycosides from *Derris scandens*. *Phytochemistry*. 60(8): 827-834.
- Rungprom, W. and Prasantawong, A. 2009. Bioactive compounds in ray grass (*Leptochloa chinensis* (L.) Nees). *Agricultural Science Journal*. 40: 118-120.
- Ruyechan, W. 1983. The major herpes simplex virus DNA-binding protein holds single-stranded DNA in an extended configuration. *Journal of Virology*. 46(2): 661-666.
- Sabini, M.C., Cariddi, L.N., Escobar, F.M., Aguilar, J.J., Tonn, C.E., Contigiani, M.S. and Sabini, L.I. 2010. Action of extracts obtained with organic solvents

- from *Minthostachys verticillata* (Griseb.) epling on viability of herpes simplex type 1 virus (HSV-1). *Molecular Medicinal Chemistry*. 21: 84-87.
- Sacks, S.L., Griffiths, P.D., Corey, L., Cohen, C., Cunningham, A., Dusheiko, G.M., Self, S., Spruance, S., Stanberry, L.R., Wald, A. and Whitley, R.J. 2004. HSV-2 transmission. *Antiviral Research*. 63: s27-s35.
- Sahoo, S.S., Shukla, S., Nandy, S. and Sahoo, H.B. 2012. Synthesis of novel coumarin derivatives and its biological evaluations. *European Journal of Experiment Biology*. 2(4):899-908.
- Sakulpanich, A. and Gritsanapan, W. 2009. Determination of anthraquinone glycoside content in *Cassia fistula* leaf extracts for alternative source of laxative drug. *International Journal of Biomedical and Pharmaceutical Science*. 3(1): 42-45.
- Saltzman, R., Jurewicz, R. and Boon, R. 1994. Safety of famciclovir in patients with herpes zoster and genital herpes. *Antimicrobial Agents and Chemotherapy*. 38(10): 2454-2457.
- Samarth, R.M., Panwar, M., Kumar, M., Soni, A., Kumar, M. and Kumar, A. 2008. Evaluation of antioxidant and radical-scavenging activities of certain radioprotective plant extracts. *Food Chemistry*. 106(2): 868-873.
- Sangtongdee, S., Kotruchin, S., Kamkaen, N. and Pitiporn, S. 2006. A Bachelor of Pharmacy's Thesis. Faculty of Pharmacy, Srinakharinwirot University. Thailand. (In Thai with English abstract).
- Sarmiento, M. and Spear, P.G. 1979. Membrane proteins specified by herpes simplex viruses IV. conformation of the virion glycoprotein designated VP7 (B₂). *Journal of virology*. 29(3): 1159-1167.

Sarnjai, N. 2010. Effects of some medicinal plant extracts on growth of pathogenic bacteria. A Master of Science's Thesis in Biology. Department of Biology, Faculty of Science, Chiang Mai University. Thailand. (In Thai with English abstract).

Sasidharan, S., Chen, Y., Saravanan, D., Sundram, K.M. and Latha, L.Y. 2011. Extraction, isolation and characterization of bioactive compounds from plants extract. African Journal of Traditional Complementary and Alternative Medicines. 8(1): 1-10.

Sauerbrei, A., Eichhorn, U., Hottenrott, G. and Wutzler, P. 2000. Virological diagnosis of herpes simplex encephalitis. Journal of Clinical Virology. 17: 31-36.

Serkedjieva, J. and Ivancheva, S. 1998. Antiherpes virus activity of extracts from the medicinal plant *Geranium sanguineum* L. Journal of Ethnopharmacology. 64(1): 59-68.

Seth, R. and Sarin, R. 2010. Analysis of the phytochemical content and anti-microbial activity of *Jatropha gossypifolia* L. Archives of Applied Science Research. 2(5): 285-291.

Shah, U. 2011. *Cissus quadrangularis* L.: phytochemicals, traditional uses and pharmacological activities-a review. International Journal of Pharmacy and Pharmaceutical Sciences. 2(4): 41-44.

Shalaby, S. and Shukr, M. 2011. The influence of the type and concentration of alcohol on the rheological and mucoadhesive properties of carbopol 940 hydroalcoholic gels. Der Pharmacia Sinica. 2(6): 161-171.

Sheaffer, A.K., Newcomb, W.W. and Tenney, D. 2000. Evidence for controlled incorporation of herpes simplex virus type 1 U_L26 proteases into capsids. *Journal of Virology*. 74(15): 6838-6848.

Sherman, G., Gottlieb, J. and Challberg, M.D. 1992. The U_L8 subunit of the herpes simplex virus helicase-primase complex is required for efficient primer utilization. *Journal of Virology*. 66(8): 44884-44892.

Shi, H., Magaye, R., Castranova, V. and Zhao, J. 2013. Titanium dioxide nanoparticles: a review of current toxicological data. *Particle and Fibre Toxicology*. 10:15.

Shivhare, U.D., Jain, K.B., Mathur, V.B., Bhusari, K.P. and Roy, A.A. 2009. Formulation development and evaluation of diclofenac sodium gel using water soluble polyacrylamide polymer. *Digest Journal of Nanomaterials and Biostructures*. 4(2): 285-290.

Sierra, C.A., Bedoya, A.M., Paris, S., Baena, A., Gaviria, A.M., Rojas, C.A., Arbelaez, M.P. and Sanchez, G.I. 2011. Prevalence of specific herpes simplex virus-2 antibodies and associated factors in women of a rural town of Colombia. *Transactions of the Royal Society of Tropical Medicine and Hygiene*. 105(4): 232-238.

Simões, S.I., Tapadas, J.M., Marques, C.M., Cruz, M.E.M., Martins, M.B.F. and Ceve, G. 2005. Permeabilisation and solubilisation of soybean phosphatidylcholine bilayer vesicles, as membrane models, by polysorbate, Tween 80. *European Journal of Pharmaceutical Sciences*. 26(3-4): 307-317.

Simonato, M., Manservigi, R., Marconi, P. and Glorioso, J. 2000. Gene transfer into neurons for the molecular analysis of behavior: focus on herpes simplex vectors. *Trends Neurosciences*. 23(5): 183-190.

Sinha, K., Mishra, N.P., Singh, J. and Khanuja, S.P.S. 2004. *Tinospora cordifolia* (Guduchi), a reservoir plant for therapeutic applications: a review. *Indian Journal of Traditional Knowledge*. 3(3): 257-270.

Siripong, P., Wongseri, V., Piyaviriyakul, S., Yahaufai., Chanpai, R. and Kanokmedakul, K. 2006. Antibacterial potential of *Rhinacanthus nasutus* against clinically isolated bacteria from Thai cancer patients. *Mahidol University Journal of Pharmaceutical Sciences*. 33(1-4): 15-22.

Sittiwet, C., Puangpronpitag, D. and Niamsa, N. 2009. *In vitro* antimicrobial activity of *Schefflera leucantha*: the potential of respiratory tract and urinary tract infection treatment. *International Journal of Pharmacology*. 5(3): 240-243.

Soni, M.G., Taylor, S.L., Greenberg, N.A. and Burdock, G.A., 2002. Evaluation of the health aspects of methyl paraben: a review of the published literature. *Food and Chemical Toxicology*. 40(10): 1335-1373.

Spear, P.G. 2004. Herpes simplex virus: receptors and ligands for cell entry. *Cellular Microbiology*. 6(5): 401-410.

Spear, P.G. and Roizman, B. 1972. Proteins specified by herpes simplex virus V. purification and structural proteins of the herpesvirion. *Journal of Virology*. 9(1): 143-159.

- Spencer, J.V., Trus, B.L., Booy, F.P., Steven, A.C., Newcomb, W.W. and Brown, J.C. 1997. Structure of the herpes simplex virus capsid: peptide A862-H880 of the major capsid protein is displayed on the rim of the capsomer protrusions. *Virology*. 228(2): 229-235.
- Spruance, S.L., McKeough, M.B. and Cardinal, J.R. 1983. Dimethyl sulfoxide as a vehicle for topical antiviral chemotherapy. *Annals of the New York Academy of Sciences*. 411:28-33.
- Srisuvoramas, B. 2008. Studies on Antimicrobial effect of *Pseuderatherum platiferum* (Hoan Ngoc) crude extract by the participatory of this medicinal plant user. Phetchabun: Faculty of science and technology, Phetchabun Rajabhat University, Thailand.
- Steiner, I. and Kennedy, P.G. 1995. Herpes simplex virus latent infection in the nervous system. *Journal of NeuroVirology*. 1(1): 19-29.
- Stevenson, A.J., Morrison, E.E., Chaudhari, R., Yang, C-C. and Merdith, D.M. 1997. Processing and intracellular localization of the herpes simplex virus type 1 proteinase. *Journal of General Virology*. 78: 671-675.
- Suárez, B., Álvarez, A.L., García, Y.D. and Barrio, G. 2010. Phenolic profiles, antioxidant activity and in vitro antiviral properties of apple pomace. *Food Chemistry*. 120: 339-342.
- Sule, W.F., Okonko, I.O., Joseph, T.A., Ojezele, M.O., Nwanze, J.C., Alli, J.A., Adewale, O.G., Ojezele, O.J. 2010. *In vitro* antifungal activity of *Senna Alata* Linn. Crude leaf extract. *Advances in Applied Science Research*. 1(2): 14-26.

- Suman, B., Raghu, P.S., Sailaja, G. and Thyaga, R.K. 2011. The study on morphological, phytochemical and pharmacological aspects of *Rhinacanthus nasutus*. (L) Kurz (a review). *Journal of Applied Pharmaceutical Science*. 1(8): 26-32.
- Suwancharoen, S., Chonvanich, O., Roengsumran, S. and Pornpakakul, S. 2012. Seco-kaurane skeleton diterpenoids from *Croton oblongifolius*. *Chemistry of Natural Compounds*. 48(4): 583-586.
- Taha, M.Y.M. 2008. Antiviral effect of ethanolic extrat of *Salvadora Persica* (Siwak) on herpes simplex virus infection. *Al-Rafidain Dental Journal*. 8(1): 50-55.
- Tal-Singer, R., Peng, C., Ponce De Leon, M., Abrams, W. R., Banfield, B. W., Tufaro, F., Cohen, G. H. and Eisenberg, R. J. 1995. Interaction of herpes simplex virus glycoprotein gC with mammalian cell surface molecules. *Journal of Virology*. 69(7): 4471-4483.
- Taylor, T.J., Brockman, M.A., McNamee, E.E. and Knipe, D.M. 2002. Herpes simplex virus. *Frontiers in Bioscience*. 1: 752-764.
- Tewtrakul, S., Subhadhirasakul, S., Tansakul, P., Cheenpracha, S, and Karalai, C. 2011. Antiinflammatory constituents from *Eclipta prostrate* using RAW 264.7 macrophage cells. *Phytotherapy Research*. 25(9): 1313-1316.
- Tewtrakul, S., Tansakul, P. and Panichayupakaranant, P. 2009. Anti-allergic principles of *Rhinacanthus nasutus* leaves. *Phytomedicine*. 16(10): 929-934.
- Thomsen, D.R., Newcomb, W.W., Brown, J.C. and Homa, F.L. 1995. Assembly of the herpes simplex virus capsid: requirement for the carboxyl-terminal

twenty-five amino acids of the proteins encoded by the UL26 and UL26.5 genes. *Journal of Virology*. 69(6): 36090-3703.

Thongsaard, W., Marsden, C.A., Morris, P., Prior, M. and Shah, Y.B. 2005. Effect of *Thunbergia laurifolia*, a Thai natural product used to treat dru addiction, on cerebral activity detected by functional magnetic resonance imaging in the rat. *Psychopharmacology*. 180(4): 752-760.

Thurlow, J.K., Rixon, F.J., Murphy, M., Targett-Adams, P., Hughes, M. and Preston, V.G. 2005. The herpes simplex virus type 1 DNA packaging protein UL17 is a virion protein that is present in both the capsid and the tegument compartments. *Journal of Virology*. 79(1): 150-159.

Tiwari, P., Kumar, B., Kaur, M., Kaur, G. and Kaur, H. 2011. Phytochemical screening and extraction: a review. *International Pharmaceutica Scientia*. 1(1): 98-106.

Tolo, F.M., Rukunga, G.M., Muli, F.W., Njagi, E.N.M., Njue, W., Kunon, K., Mungai, G.M., Muthaura, C.N, Muli, J.M., Keter, L.K., Oishi, E. and Kofi-Tsekpo, M.W. 2006. Anti-viral activity of the extracts of a Kenya medicinal plant *Carissa edulis* against herpes simplex virus. *Journal of Ethnopharmacology*. 104(1-2): 92-99.

Tolo, F.M., Rukunga, G.W., Muli, F.W., Ochora, J.M., Irungu, B.N., Muthaura, C.N., Wanjiku, C.K., Mungai, G.M., Ngoc, Q., Hasimoto, K. and Asakawa, T. 2010. The antiviral activity of compounds isolated from Kenyan *Carissa edulis* (Forssl.) Vahl. *Journal of Medicinal Plantss Research*. 4(15): 1517-1522.

- Tragoopua, Y. and Jatisatienr, A. 2007. Anti-herpes simplex virus activities of *Eugenia caryophyllus* (Spreng.) Bullock & S. G. Harrison and essential oil, eugenol. *Phytotherapy Research*. 21(12): 1153-1158.
- Tunpradit, R., Sinchaikul, S., Phutrakul, S., Wongkham, W., and Chen, S-T. 2010. Anti-cancer compound screening and isolation: *Coscinium fenestratum*, *Tinospora crispa* and *Tinospora cordifolia*. *Chiang Mai Journal of Science*. 37(3): 476-488.
- Turner, A., Bruun, B., Minson, T. and Browne, H. 1998. Glycoproteins gB, gD, and gHgL of herpes simplex virus type 1 are necessary and sufficient to mediate membrane fusion in a Cos cell transfection system. *Journal of Virology*. 72(1), 873-875.
- Tushar, K.V., George, S., Remashree, A.B. and Balachandran, I. 2008. *Coscinium fenestratum* (Gaern.) Colebr.-A review on this rare, critical endangered and highly-traded medicinal species. *Journal of Plant Sciences*. 3: 133-145.
- Tuuk, V.D. 1866. Short account of the malay manuscripts belonging to the royal Asiatic society. *Journal of the royal Asiatic society of great Britain and Ireland*. 2(1): 85-135.
- Utsunomiya, H., Ichinose, M., Uozaki, M., Tsujimoto, K., Yamasaki, H. and Koyama, A.H. 2008. Antiviral activities of coffee extracts *in vitro*. *Food and Chemical Toxicology*. 46(6): 1919-1924.
- Verma, H., Patil, P.R., Kolhapure, R.M. and Gopalkrishna, V. 2008. Antiviral activity of the Indian medicinal plant extract, *Swertia Chirata* against herpes simplex viruses: a study by *in vitro* and molecular approach. *Indian Journal of Microbiology*. 26(4): 322-326.

Vijayan, P., Raghu, C., Ashok, G., Dhanaraj, S.A. and Suresh, B. 2004. Antiviral activity of medicinal plants of *Nilgiris*. Indian Journal of Medical Research. 120(1): 24-29.

Vipul, A. and Devesh, S. 2012. Stability testing of active pharmaceutical ingredient. Journal of Pharmaceutical and Scientific Innovation. 1(2): 18-23.

Vispute, S. and Khopade, A. 2011. *Glycyrrhiza glabba* Linn.- “Klitaka” : a review. International Journal of Pharma and Bio Sciences. 2(3): 42-51.

Voravuthikunchai, S., Lortheeranuwat, A., Jeeju, W., Sririrak, T., Phongpaichit, S. and Supawita, T. 2004. Effective medicinal plant against enterohaemorrhagic *Escheichia coli* 0175:H7. Journal of Ethnopharmacology. 94(1): 49-54.

Wald, A., Langenberg, A.G., Link, K., Izu, A.E., Ashley, R., Warren, T., Tying, S., Douglas Jr., J.M. and Corey, L. 2001. Effect of condoms on reducing the transmission of herpes simplex virus type 2 from men to women. The Journal of the American Medical Association. 285(24): 3100–3106.

Wang, H., Li, C., Wu, X. and Lou, X. 2012. Effects of *Gynostemma pentaphyllum* (Thunb.) makino polysaccharides supplementation on exercise tolerance and oxidative stress induced by exhaustive exercise in rats. African Journal of Agricultural Research. 7(17): 2632-2638.

Wei, Q, Fei-Hua, W., Juan, L. and Jing-Yu, L. 2011. Alkaloids from *Houttuynia cordata* and their antiplatelet aggregation activities. Chinese Journal of Natural Medicines. 9(6): 425-428.

- White, C.A., Stow, N.D., Patel, A.H., Hughes, M. and Preston, V.G. 2003. Herpes simplex virus type 1 portal protein U_L6 interacts with the putative terminase subunits U_L15 and U_L28. *Journal of Virology*. 77(11): 6351–6358.
- Whitley, R.J. and Roizman, B. 2001. Herpes simplex virus infections. *The lancet*. 357(9267): 1513-1518.
- Whitley, R.J., Kimberlin, D.W. and Roizman, B. 1998. State-of-the-art clinical article. *Clinical Infectious Disease*. 26: 541-555.
- Wiart, C. 2006. Medicinal plants of asia and the pacific: chapter 37 Medicinal plants classified in the family Verbenaceae. Taylor and Francis Group. LLC. USA. 285.
- Wirotangthong, M. and Rattanakit, S. 2006. Anti-herpes simplex virus type 2 activities of some Thai medicinal plant. *The Thai Journal of Pharmaceutical Science*. 30: 19-27.
- Wu, S-J. and Ng, L-T. 2008. Antioxidant and free radical scavenging activities of wild bitter melon (*Momordica charantia* Linn.var. abbreviate Ser.) in Taiwan. *Food Science and Technology*. 41(2): 323-330.
- Xie, Z., Huang, H., Zhao, Y., Shi, H., Wang, S., Wang, T.T.Y., Chen, P., and Yu, L. 2012. Chemical composition and anti-proliferative and anti-inflammatory effects of the leaf and whole-plant samples of diploid and tetraploid *Gynostemma pentaphyllum* (Thunb.) Makino. *Food Chemistry*. 132(1): 125-133.
- Xu, Y.X., Leung, S.W.S., Yeung, D.K.Y., Hu, L.H., Chen, G.H., Che, C.M. and Man, R.Y.K. 2007. Structure-activity relationships of flavonoids for vascular relaxation in porcine coronary artery. *Phytochemistry*. 68(8): 1179-1188.

Yadav, R. and Agarwala, M. 2011. Phytochemical analysis of some medicinal plants. *Journal of Phytology*. 3(12): 10-14.

Yang, C.M., Cheng, H.Y., Lin, T.C., Chiang, L.C. and Lin, C.C. 2005. Acetone, ethanol and methanol extracts of *Phyllanthus urinaria* inhibit HSV-2 infection, *in vitro*. *Antiviral Research*. 67(1): 24-30.

Yarmolinsky, L., Zaccai, M., Ben-Shabat, S. and Huleihel, M. 2010. Anti-herpetic activity of *Callisia fragrans* and *Simmondsia chinensis* leaf extract *in vitro*. *The Open Virology Journal*. 4: 57-64.

Yoosook, C., Bunyaphatsara, N., Boonyakiat, Y. and Kuntasuk, C. 2000. Anti-herpes simplex virus activities of crude water extracts of Thai medicinal plants. *Phytomedicine*. 6(6):411-419.

Yoosook, C., Panpisuthchai, Y., Chichana, S., Santisuk, T. and Reutrakul, V. 1999. Evaluation of anti-HSV-2 activities of *Barleria lupulina* and *Cliacanthus nutans*. *Journal of Ethnopharmacology*. 67(2): 179-187.

Yucharoen, R. 2011. Anti-herpes simplex virus, antioxidant and anticancer activities of some herbal extracts. A doctor of philosophy in biotechnology's Thesis in Biology. Graduate school, Chiang Mai University. Thailand.

Yucharoen, R., Chansakaow, S. and Tragoolpua, Y. 2011. Inhibitory effect of aromatic herbs, lavender, sage and chamomile against herpes simplex virus infection. *African Journal of Biotechnology*. 10(68): 15394-15401.

Yucharoen, R., Meepowpan, P. and Tragoolpua, Y. 2012. Inhibitory effect of peppermint extracts and menthol against herpes simplex virus infection. *Chiang Mai Journal of Science*. 39(1):97-110.

- Zaher, K.S., Ahmed, W.M. and Zerizer, S.N. 2008. Observations on the biological effects of black cumin seed (*Nigella sativa*) and green tea (*Camellia sinensis*). *Global Veterinaria*. 2(4): 198-204.
- Zandi, K., Zadeh, M.A., Sartavi, K. and Rastian, Z. 2007. Antiviral activity of *Aloe vera* against herpes simplex virus type 2: an *in vitro* study. *African Journal of Biotechnology*. 6(15): 1770-1773.
- Zhang, H., Yao, M., Morrison, R.A. and Chong, S. 2003. Commonly used surfactant, Tween 80, improves absorption of P-glycoprotein substrate, digoxin, in rats. *Archives of Pharmacal Research*. 26(9): 768-772.
- Zhao, Y., Xie, Z., Niu, Y., Shi, H., Chen, P. and Yu, L. 2012. Chemical compositions, HPLC/MS fingerprinting profiles and radical scavenging properties of commercial *Gynostemma pentaphyllum* (Thunb.) Makino samples. *Food Chemistry*. 134(1): 180-188.
- Zhi-Hua, S., Chao-Feng, Z. and Mian, Z. 2010. A new benzoic acid derivative from *Rhinacanthus nasutus*. *Chinese Journal of Natural Medicines*. 8(4): 244-246.
- Zhou, C. and Knipe, D. M. 2002. Association of herpes simplex virus type 1 ICP8 and ICP27 proteins with cellular RNA polymerase II holoenzyme. *Journal of Virology*. 78(12): 5893-5904.
- Zulkhairi, A., Abdah, M.A., Kamal, M., Nursakinah, T., Moklas, M.A.M., Hasnah, B., Fazali, F., Khairunnur, F.A., Kamlah, K.A.K., Zamree, M.S. and Shahidan, M.M.A. 2008. Biological properties of *Tinospora crispa* (*Akar Patawali*) and its antiproliferative activities on selected human cancer cell. *Malaysian Journal of Nutrition*. 14: 173-187.