

REFERENCES

- Achenbach H., Stocker M., Constenla M.A. Flavonoid and other constituents of *Bauhenia manca*. *Phytochemistry*. 1988; 27: 1835-1841.
- Amro B., Aburjai T., Al-Khalil S. Antioxidative and radical scavenging effects of olive cake extract. *Fitoterapia*. 2002; 73: 456-461.
- An T.Y, Shan M.D, Hu L.H, Liu S.J, Chen Z.L. Polyprenylated phloroglucinol derivatives *Hypericum erectum*. *Phytochemistry*. 2002; 59: 395-398.
- Aramaki Y., Chiba K., Tada M. Spiro-lactones, hyperolactone A-D from *Hypericum chinense*. *Phytochemistry*. 1995; 38: 1419-1421.
- Asano J., Chiba K., Tada M., Yoshii T. Cytotoxic xanthones from *Garcinia hanburyi*. *Phytochemistry*. 1996; 41: 815-820.
- Badami S., Gupta M.K., Suresh B. Antioxidant activity of the ethanolic extract of *striga orobanchioides*. *J. Ethnopharmacol.* 2003; 2852: 1-4.
- Baggett S., Protiva P., Mazzola E.P., Yang H., Ressler E.T., Basile M.J., Weinstein I.B., Kennelly E.J. Bioactive benzophenones from *G. Xanthochymus* fruits. *J. Nat. Prod.* 2005; 68: 354-360.
- Cakir A., Mavi A., Yildirm A., Duru M.E., Harmandar M., Kazaz C. Isolation and characterization of antioxidant phenolic compounds from the aerial parts of *Hypericum hyssopifolium* L. by activity-guided fraction. *J. Ethnopharmacol.* 2003; 87: 73-83.

Cao S.G., Sang V.H.L., Wu X.H., Sim K.Y., Tan B.H.K., Pereira J.T., Goh S.H.

Novel cytotoxic polyprenylated xanthonoids from *Garcinia gaudichadii*.

Tetrahedron Letters. 1998; 54: 10915-10924.

Cao S.G., Sim K.Y., Pereira J., Goh S.H. Coumarins from *Calophyllum teysmannii*.

Phytochemistry. 1998; 47: 773-777.

Cao S.G., Wu X.H., Sim K.Y., Tan B.K.H., Pereira W.H.W., Hew N.F., Goh S.H.

Novel cytotoxic polyprenylated xanthonoids from *Garcinia gaudichadii*

(Guttiferae). *Tetrahedron Letters*. 1998; 39:3353-3356.

Cardona M.L., Fernandez I., Pedro J.R. Xanthone constituents of *Hypericum inodorum*. *Heterocycles*. 1992; 34: 479-482.

Cardona M.L., Fernandez I., Pedro J.R., Serrano A. Xanthones from *Hypericum reflexum*. *Phytochemistry*. 1990; 29: 3003-3006.

Cardona M.L., Fernandez I., Seoan E., Vidal E. Additional new xanthones and xanthonolignoids from *Hypericum canariensis*. *J. Nat. Prod.* 1986; 49: 95-100.

Cardona M.L., Seoan E. Flavonoids and xanthonolignoids of *Hypericum ericoides*.

Phytochemistry. 1982; 21: 2759-2760.

Chanmahasathien W., Li Y., Satake M, Oshima Y., Ruangrungsi N., Ohizumi

Prenylated xanthones with NGF-potentiating activity from *G. xanthochymus*.

Phytochemistry. 2003; 981-986.

Chen B., Duan H., Takaishi Y. Triterpene caffeoyl esters and diterpenes from *Celastrus stephanolifolius*. *Phytochemistry*. 1999; 51: 683-687.

Chen Y.G., Qin G.W., Cao L., Leng Y., Xie Y.Y. Triterpenoid acids from *Schisandra*

- propinqua* with cytotoxic effect on rat luteal cells and human decidual cells in vitro. *Fitoterapia.* 2001; 72: 435-437.
- Choi C.W., Kim S.C., Hwang S.S., Choi B.K., Ahn H.J., Lee M.Y., Park S.H., Kim S.K. Antioxidant activity and free radical scavenging capacity between Korean medicinal plants and flavonoids by assay-guided comparison. *Plant Sci.* 2002; 163: 1161-1168.
- Chung M.I., Weng J.R., Wang J.P., Teng C.M., Lin C.N. Antiplatelet and anti-inflammatory constituents and New Oxygenated xanthones from *Hypericum geminiflorum*. *Planta Med.* 2002; 68: 25-29.
- Clercq E. Current lead natural products for the chemotherapy of human Immuno deficiency virus (HIV) infection. Chemotherapy of human immunodeficiency virus (HIV) infection. *Med. Res. Rev.* 2000; 20: 323-249.
- Conforti F., Statti G.A., Tundis R., Menichini F., Houghton P. Antioxidant activity of methanolic extract of *Hypericum triquetrifolium* Turra aerial part. *Fitoterapia.* 2002; 73: 479-483.
- Couladis M., Badisa R.B., Baziou P., Chaudhuri S.K., Pilarinou E., Verykokidou E., Harvala C. Antioxidant and cytotoxicity activities of Hypericum sp. On brine shrimps and human cancer cell lines. *Phytother. Res.* 2002; 16 719-722.
- Codell A.G. Separation, structure elucidation, and bioassay of cytotoxic natural products. In Colegate M.S. and Molyneux J.R. (eds.), *Bioactive natural products: detection, isolation, and structure determination*. CRC Press, USA. 1993: 199.

- Dais A.C.P., Seabra R.M., Andrade P.B., Ferreres F., Ferreira M.F. Xanthone biosynthesis and accumulation in cali and suspended cells of *Hypericum androsaemum*. *Plant Science*. 2000; 150: 93-101.
- Daudt R., Poser G.L., Neves G., Rates S.M.K. Screening for the antidepressant activity of some species of *Hypericum* from South Brazil. *Phytother. Res.* 2000; 17: 952-956.
- Decosterd L., Hoffmann E., Kyburz R., Bray D., Hostertmann. A new phloroglucinol derivative from *Hypericum calycinum* with antifungal and *in vitro* antimalarial activity. *Planta Med.* 1991; 57: 548-551.
- Ekman R., Sjoholm R. Betulinol 3-caffeate in outer bark of *Betula verrucosa*. Finn. *Chem Lett.* 1983;5: 134; *Chem. Abstr.* 1984; 100: 117827a.
- Ferraz A.B.F., Bordignon S.A.L., Staats C., Schripsema J., Poser G.L.V. Benzopyran from *Hypericum polyanthum*. Benzopyrans from *Hypericum polyanthemum*. *Phytochemistry*. 2001; 57: 1227-1230.
- Fodulovic K.S., Aljancic I., Vajs V., Menkovic N., Macura S., Gojic G., Milosavljevic S. Hyperatomarin, an antibacterial prenylated phloroglucinol from *Hypericum atomarium* ssp. *degenii*. *J. Nat. Prod.* 2003; 66: 1236-1238.
- Goh S.H., Jantan I. A xanthone from *Calophyllum inophyllum*. *Phytochemistry*. 1991; 30: 366-367.
- Gonzalez M.J., Nascimento M.S.J., Cidade H.M., Pinto M.M.M., Kijjoa A., Anantachoke C., Silva A.M.S., Herz W. Immunomodulatory activity of xanthone from *Calophyllum teysmannii* var. *inuphyloide*. *Planta Med.* 1999; 65: 368-370.

- Gottlieb O.R., Mesquita A.A.L., Nagem T.J.P. Chemistry of Brazilian Guttiferae
 XXVII. Xanthones from *Kielmeyera rubriflora*. *Phytochemistry*. 1971; 10:
 2253-2255.
- Grzybek J., Wongpanich V., Greenwood E.M., Angerhofer C.K., Pezzuto J.M., Cordell
 G.A. Biological evaluation of selected plants from Poland. *Inter. J.
 Pharmacognosy*. 1997; 35: 1-5.
- Guilet D., Seraphin D., Rondeau D., Richomme P., Bruneton J. Cytotoxic coumarins
 from *Calophyllum dispar*. *Phytochemistry*. 2001; 58: 571-575.
- Gunatilaka A.A.L., Fernandez I., Pedro J.R. Minor xanthones of *Hypericum
 mysorense* Wight et Arn. *Phytochemistry* 1982; 21: 1751-1753.
- Han J., Kang S., Choue R., Kim H., Leem H., Chung S., Kim C., Chung J. Free
 radical scavenging effect of *Diospyros Kaki*, *Laminaria japonica* and *Undaria
 pinnatifida*. *Fitoterapia*. 2002; 73: 710-712.
- Hancke J.L., Burgos R.A., Ahumada F. *Schisandra chinensis* (Turcz.) Bill.
Fitoterapia. 1999; 70: 451-471.
- Herz W., Gregor H. Ivalin, a new sesquiterpene lactone. *Phytochemistry*. 1962; 27:
 905-910.
- Ho K.Y., Huang J.S., Tsai C.C., Lin T.C., Hsu Y.F., Lin C.C. Antioxidant activity of
 tannin components from *Vaccinium vitis-idaea* L. *J. Pharm. Pharmacol.*
 1999; 51: 1075-1078.
- Hu L.H., Sim K.Y. Sampsoniones A-M, a unique family of caged polyprenylated
 benzoylphloroglucinol derivatives, from *Hypericum sampsonii*. *Tetrahedron*.
 2000; 56: 1379-1386.

Hu L.H., Yip S.C., Sim K.Y. Xanthones from *Hypericum ascyron*.

Phytochemistry. 1999; 52: 1371-1373.

Iinuma M., Tosa H., Ito T., Tanaka T., Madulidi D.A. Two Xanthones from roots of

Cratoxylum formosanum. *Phytochemistry*. 1996; 42: 1195-1198.

Ikeya Y., Miki E., Okada M., Mitsuhashi H., Chai J.G. Benzoylgomisin Q and benzoylgomisin P, two new lignans from *Schisandra sphenanthera*. *Chem. Pharm. Bull.* 1990; 38: 1408-1411.

Ishiguro K., Nagareta N., Fukumoto. A Phloroglucinol derivative from cell suspension cultures of *Hypericum patulum*. *Phytochemistry*. 1998; 47: 1042-1043.

Ishiguro K., Nagata S., Oku H., Yamaki M. Bisxanthones from *Hypericum japonicum*: inhibitors of PAF-induced hypotension. *Planta Med.* 2002; 68: 258-261.

Ito C., Itoigawa M., Takakura T., Ruangrungsi N., Enjo F., Tokuda., Nishino H., Furukawa H. Chemical constituents of *Garcinia fusca*: structure elucidation of eight new xanthones and their cancer chemopreventive activity. *J. Nat. Prod.* 2003; 66: 200-205.

Jayasuriya H., Clark A.M., McChesney J.D. New antimicrobial filicinic acid derivatives from *Hypericum drummondii*. *J. Nat. Prod.* 1991; 54: 1314-1320.

Kashman Y., Gustafson K.R., Fuller R.W., Cardllina I.J.H., McMahon J.B., Currens M.J., Buckheit J.R.W., Hughes S.H., Cragg G.M., Boyd M.R. The calanolides, a novel HIV-inhibitory class of coumarin derivatives from the tropical rainforest tree *Callophyllum lanigerum*. *J. Med. Chem.* 1992; 35: 2735-2743.

Kijjoa A., Gonzalez M.J., Pinto M.M.M., Silva A.M.S., Anantachoke C., Herz W.

Xanthones from *Calophyllum teysmannii* var. *inuphyloide*. *Phytochemistry*.
2000; 55: 833-836.

Kijjoa A., Jose M., Gonzalez T.G., Pinto M.M.M., Damas A.M., Mondranondra I.,
Silva A.M.S., Herz W. Xanthones from *Cratoxylum Maingayi*.
Phytochemistry. 1998; 49: 2159-2162.

Kim K.S., Lee Y.S., Jung S.H., Park Y., Shin K.H., Kim B.K. Antioxidant activities
of the extracts from the herbs of *Artemisia apiacea*. *J. Ethnopharmacol.*
2003; 85: 69-72.

Kitanov G.M., Nedialkov P.T. Benzophenone O-glucoside, a biogenic precursor of
1,3,7-trioxygenated xanthones in *Hypericum annulatum*. *Phytochemistry*.
2001; 57: 1237-1243.

Kosela S., Cao S.G., Wu X.H., Vittal J.J., Sukri T., Masdianto, Goh, S.H., and Sim,
K.Y. Lateriferone, a cytotoxic spiroxalactone with a novel skeleton, from
Garcinia lartiflora Bl. *Tetrahedron Letters*. 1999; 40: 157-160.

Koshy A.S., Anila L., Vijayalakshmi N.R. Flavonoids from cambogia lower lipid
levels in hypercholesterolemic rats. *Food Chemistry*. 2001; 72: 289-294.

Kumar V., Ramachandron S., Sultanbawa M.U.S. Xanthones ad triterpenoids from
timber of *Calophyllum inophyllum*. *Phytochemistry*. 1976; 15: 2016-2017.

Kuo Y.H., Li S.Y., Wu M.D., Huang R.L., Kuo L.M.Y., Chen C.F. A new anti-
HbeAg lignan , *Kadsura matsudai* and *Schizandra arisanensis*. *Chem. Pharm.
Bull.* 1999; 47: 1047-1048.

- Kuo Y.H., Kuo L.M.Y, Chen C.F. Four new 19 homolignans, Schiarisanrins A, B and D and cytotoxic Schiarsanrin C, from *Schizandra arisanens*. *J. Org. Chem.* 1997; 62: 3242-3245.
- Lee K.H., Chai H.B., Tamez P.A., Pezzuto J.M., Cordell G.A., Win K.K., Wa M.T. Biologically active alkylated coumarins from *Kayea assamica*. *Phytochemistry*. 2003; 64: 535-541.
- Li R., Shen Y., Xiang W., Sun H. Four novel nortriterpenoids isolated from *Schisandra henryi* var. *yannanensis*. *Eur. J. Chem.* 2004; 807-811.
- Li R.T., Li S.H., Zhao Q.S., Lin Z.W., Sun H.D., Lu Y., Wang C., Zheng Q.T. Lancifodilactone A, a novel bisnortriterpenoid from *Schisandra lancifolia*. *Tetrahedron Letters*. 2003; 44: 3531-3534.
- Li R.T., Xiang W., Li S.H., Lin Z.W., Sun H.D. Lancifodilactones B-E, Newtriterpenes from *Schisandra lancifolia*. *J.Nat.Prod.* 2004; 67: 94-97.
- Lin Y.L., Wu Y.S. Polyprenylated phloroglucinol derivatives from *Hypericum sampsonii*. *Helv. Chem. Acta*. 2003; 86: 2156-2163.
- Lu H., Liu G. Anti-oxidant activity of dibenzocyclooctene lignans isolated from Schidandraceae. *Planta Med.* 1992; 58: 311-313.
- Matsuhsia M., Shikishima Y., Takaishi Y., Honda G., Ito M., Takeda Y., Shibata H., Higuti T., Kodzhimatov O.K., Ashurmetov O. Benzoylphloroglucinol derivatives from *Hypericum scabrum*. *J. Nat. Prod.* 2002; 65: 290-294.
- Monks A., Scudiero D., Skehan P., Shoemaker R., Paull K., Vistica D., Hose C., Langley J., Cronise P., Vaigro W.A., Gray G.M., Campbell H., Mayo J., Boyd M. Feasibility of a high-flux anticancer drug screen using a diverse panel of cultured human tumor cell lines. *J. NCI*. 1991; 83: 757-765.

- Mosmann T. Rapid colorimetric assay for cellular growth and survival: application to proliferation and cytotoxicity assays. *J. Immono. Methods.* 1983; 65: 55-63.
- Mukherjee P.K., Suresh B., Verpoorte R. CNS active potencials of some *Hypericum* species of India. *Phytomedicine.* 2001; 8: 331-337.
- Mukherjee P.K., Suresh B. The would-healing potential of *Hypericum hookerianum* leaf and stem extracts. *J. Altern. Complement Med.* 2000; 6: 61-69.
- Mukherjee P.K., Saritha G.S., Suresh B. Antibacterial spectrum of *Hypericum hookerianum*. *Fitoterapia.* 2001; 72: 558-560.
- Nedialkov P.T., Kitanov G.M. Two benzophenone O-arabenosides and a chromone from *Hypericum annulatum*. *Phytochemistry.* 2002; 59: 867-871.
- Nielson H., Arends P. Xanthone constituents of *Hypericum androsaemum*. *J. Nat. Prod.* 1979; 42: 301-304.
- Nguyen L.H.D., Harison L.J. Triterpenoid and Xanthone constituents of *Craloxylum cochinchinense*. *Phytochemistry.* 1998; 50: 471-476.
- Nguyen L.H.D., Harrison L.J. Xanthones and triterpenoids from the bark of *Garcinia viltersina*. *Phytochemistry.* 2000; 53: 111-114.
- Ohara S, Yagatay M, Hayashi Y. Utilization of wood extractives. I. Extractions from the herb of *Betula platyphylla* Sukatchev var. *japonica*. *Makuzai Gakkoishi* 1986; 32, 266; *Chem. Abstr.* 1986; 105: 99363s.
- Okudaira C., Ikeda Y., Kondo S., Furuya S., Hirabayashi Y., Koyano T., Saito Y., Umezawa K. Inhibition of acidic sphingomyelinase by xanthone compounds isolated from *Garcinia speciosa*. *J. Enzyme Inhib.* 2000; 15: 129-38.
- Pan H., Ludgren L.N., Anderson R. Triterpene caffees from bark of *Betula pubescens*. *Phytochemistry.* 1994; 37: 795-799.

Papazisis K.T., Geromichalos G.D., Dimitriadis K.A., Korsaris A.H. Optimization of the sulforhodamine B colorimetric assay. *J. Immono. methods.* 1997; 208: 151-158.

Pedro M., Cerqueira F., Sousa M.E., Nascimento M.S.J., Pinto M. Xanthones as inhibitors of growth of human cancer cell lines and their effects on the proliferation of human lymphocytes *in vitro*. *Bioorg. Med. Chem.* 2002; 10: 3725-3730.

Petricia V., Eduarda F., Felix C., Paula B.A., Rosa M.S., Maria L.B. Antioxidant activity of *Hypericum androsaemum* infusion: scavenging activity against superoxide radical, hydroxy radical and hypochlorous acid. *Biol. Pharm. Bull.* 2002; 25: 1320-1323.

Pinto M.M.M., Mesquita A.A.L., Gottlieb O.R. Xanthonolignoids from *Kielmeyera coriacea*. *Phytochemistry*. 1987; 26: 2045-2048.

Rath G., Potterat O., Mavi S., Hostettmann K. Xanthones from *Hypericum roeperanum*. *Phytochemistry*. 1996; 43: 513-520.

Rocha L., Marston A., Potterat O., Kaolan M.A.C., Hostettmann K. More phloroglucinols from *Hypericum Brasiliense*. *Phytochemistry*. 1996; 42: 185-188.

Rukachaisirikul V., Pailee P., Hiranrat A., Tuchinda P., Yoosook C., Kasisit T., Taylor W.C., Reutrakul V. Anti-HIV-1 protostane triterpenes and digeranyl benzophenone from trunk bark and stems of *Garcinia speciosa*. *Planta Med.* 2003; 69: 1141-1146.

Sang S., Pan M.H., Cheng X., Bai N., Stark R.E., Rosen R., Shiau S.Y.L., Lin J.K., Ho C.T. Chemical studies on antioxidant mechanism of garcinol analysis of

- radical reaction products of garsinol and their antitumor activities. *Tetrahedron.* 2001; 57: 9931-9938.
- Seabra R.M., Alves A.C. Quercetin 3'-sulphate from *Hypericum elodes*. *Phytochemistry.* 1991; 30: 1344-1345.
- Siddhuraju P., Mohan P.S., Becker K. Studies on the antioxidant activity of Indian Laburnum (*Cassia fistula* L.): a preliminary assessment of crude extracts from stem bark, leaves, flowers and fruit pulp. *Food Chemistry.* 2002; 79: 61-67.
- Simbrey K., Winterhoff H., Butterweck V. Extracts of St. John's wort and various constituents affect β -adrenergic binding in rat frontal cortex. *Life Sciences.* 2004; 74: 1027-1038.
- Skehan P., Storeng R., Scudiero D., Monks A., McMahon J., Warren J.T., Bokesch H., Kenney S., Boyd M. New colorimetric cytotoxicity assay for anticancer-drug screening. *J. NCI.* 1990; 82: 1107-1112.
- Sousa E.P., Silva A.M.S., Pinto M.M.M., Pedra M.M., Cerqueira F.A.M., Nascimento M.S.J. Isomeric kielcorins and dihydroxyxanthones: synthesis, structure elucidation, and inhibitory activities of growth of human cancer cell lines and on the proliferation of human lymphocytes *in vitro*. *Hel. Chem. Act.* 2002; 85: 2862-2876.
- Sun H.D., Qiu S.X., Lin L.Z., Wang Z.Y., Lin Z.W., Pengsuparp T., Pezzuto J.M., Yue J.M., Jun X., Chen Y.Z. Triterpenoids of *Schisandra sphenanthera*. *Phytochemistry.* 1996; 35: 1068-1069.
- Tada M., Chiba K., Yamada H., Maruyama H. Phloroglucinol derivatives as competitive inhibitors against thromboxane A₂ and leukotriene D₄ from *Hypericum erectum*. *Phytochemistry.* 1991; 30: 2559-2562.

- Tachibana Y., Kikuzaki H., Lajis H.N., Nakatani N. Antioxidative activity of carbazoles for *Murraya koenigii* leaves. *J. Agric. Food Chem.* 2001; 49: 5589- 5594.
- Velazquez E., Tournier H.A., Buschiazzo P.M., Saavedra G., Schinella G.R. Antioxidant activity of Paraguayan plant extracts. *Fitoterapia*. 2003; 74: 91-97.
- Vieira M.M.L., Kijjoa A., Silva M.S.A., Mondranonda I., Kengthong S., Gales L., Damas M.A., Herz W. Lanostanes and friedolanostanes from the bark of *Garcinia speciosa*. *Phytochemistry*. 2004; 65: 393-398.
- Vijayan P., Kumar S.V., Dhanaraj S.A., Mukerjee P.K., Suresh B. *In vitro* cytotoxicity and antitumor properties of *Hypericum mysorense* and *Hypericum patulum*. *Phyther. Res.* 2003., 17: 952-956.
- Watson L., Dallwitz M.J. 1992. "The families of flowering plants-Guttiferae Juss." [Online]. Available <http://www.biodiversity.uno.edu/delta.html> (16 January 2003).
- Winkelmann K., Heilmann J., Zerbe T., Sticher O. New prenylated Bi- and Tricyclic Phloroglucinol derivatives from *Hypericum papuanum*. *J. Nat. Prod.* 2001; 64: 701-716.
- Wu Q.L., Wang S.P., Du L.J., Yang J.S., Xiao P.G. Xanthones from *Hypericum japonicum* and *H. henryi*. *Phytochemistry*. 1998; 49: 1395-1402.
- Wu T.S., YEH J.H., Wu P.L. The heartwood constituents of *Tetradium glabrifolium*. *Phytochemistry*. 1995; 40: 121-124.
- Xu Y.J., Cao S.G., Wu X.H., Lai Y.H., Tan B.H.K., Pereira S.H., Venkatraman G., Harrison L.J., Sim K.Y. Griffipavixanthone, a novel cytotoxic bixanthone from

Garcinia griffithii and *G. pavifolia*. *Tetrahedron Letters*. 1998; 39: 9103-9106.

Yokozawa T., Chen C.P., Dong E., Tanaka T., Nonaka G., Nishioka I. Study on the inhibitory effect of tannins and flavonoids against the 1,1-Diphenyl-2-picrylhydrazyl radical. *Biochem. Pharmacol.* 1998; 56: 213-222.

Yue J.M., Jun X., Chen Y.Z. Triterpenoids of *Schisandra sphenanthera*. *Phytochemistry*. 1994; 35: 1068-1069.

Zin Z.M., Hamid A.A., O A. Antioxidant activity of extracts from Mengkudu (*Morinda citrifolia L.*) root, fruit and leaf. *Food chemistry*. 2002; 78: 227-231.

จัดทำโดย คณิตศาสตร์
Copyright © by Chiang Mai University
All rights reserved