



## REFERENCES

- Arunlukshana A. A pharmacological study of *Cassia siamea* leaves, Siriraj Hos. Gaz. Bangkok 1(9) (1949) : 434-444.
- Balthazart J., and Ball G.F. Effects of the noradrenergic neurotoxin DSP-4 on luteinizing hormone levels, catecholamine concentrations,  $\alpha$ 2-adrenergic receptor binding, aromatase activity in the brain of the Japanese quail. Brain Res. 492 (1989) : 163-175.
- Baumann M.H., Raley T.J. Partilla J.S., and Rothman R.B. Biosynthesis of dopamine in the rat brain after repeated cocaine. Synapse. 14 (1993) : 40-50.
- Beckstead R.M., Wooten G.F., and Trugman J.M. Distribution of D1 and D2 dopamine receptors in the basal ganglia of the cat determined by quantitative autoradiography. J. of Comp. Neuro. 268 (1988) : 131-145.
- Bhengsi S. Detection and localization of barakol binding sites in rat brain. A thesis submitted for the degree of the Master of Science in Program of Medical Science, Chulalongkorn University, Bangkok, Thailand, 1996.
- Bidlingmeyer B.A. Practical HPLC methodology and applications. New York : Academic Press, 1993.
- Blandini F., Nappi G., Tassorelli C., and Martignoni E. Functional changes of the basal ganglia circuitry in Parkinson's disease. Progress in Neurobio. 62 (2000) : 63-88.
- Bradford M.M. A rapid sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding. Anvt. Biochem. 72 (1976) : 248-254.

Bycroft B.W., Hassanali, A., Johnson A.W. and King T.J. Structure and synthesis of barakol: A novel dioxaphenalene derivative from *Cassia siamea*. J. Chem. Soc. 12 (1970) : 1686-1689.

Chaichantipyuth C. A phytochemical study of the leaves of *Cassia siamea* and *Cassia spectabilis*. A thesis submitted for the degree of Master of Science in Pharmacy, Chulalongkorn University, Bangkok, Thailand, 1979.

Delong M.R. The basal ganglia. In Kendel E.R., Schwartz J.H. and Jussel T.M. (eds.), Principle of Neural Science 4<sup>th</sup> Edition. pp. 853-867, U.S.A. : Mcgraw-Hill, 2000.

Fiorino D.F., Treit D., Menard J., Lerner L., and Philips A.G., Is barakol anxiolytic? Behavioural Pharmacology. 9 (1998) : 375-378.

Furhman S., Palkovits M., Cassidy M., and Neale J.H. Regional distribution of *N*-acetylaspartylglutamate (NAAG) and peptidase activity against NAAG in the rat nervous system. J. of Neurochem. 62(1) (1994) : 275-281.

Hassanali A., King T.J. and Hallwork S.C. Barakol, a novel dioxaphenalene derivative from *Cassia siamea* , Chem. Comm. 12 (1969) : 678.

Jantarayota P. Effect of active ingredient from *Cassia siamea* leaves in central nervous system. A thesis submitted for the degree of Master of Science in Pharmacy, Chulalongkorn University, Bangkok, Thailand, 1987.

Kaokeaw K. Iodination reaction of barakol and active ingredient from young leaves of *Cassia siamea* Lamk. A thesis submitted for the degree of Master of Science, Srinakharinwirot University, Bangkok, Thailand, 1993.

Kinghorn A.D., and Balandrin M.F. Human medicinal agents from plants. Washington DC : American Chemical Society, 1992.

Larsen K., Larsen S.S., and Vidal J.E. Flora of Thailand. Bangkok: Leguminosae. Vol. 4  
Part t : the TISTR Press, 1977.

Lowry C.A., Renner K.J. and Moore F.L. Catecholamines and indoleamines in the  
central nervous system of a urodele amphibian: A microdissection study with  
emphasis on the distribution of epinephrine. Brain Behav. Evol. 48 (1996) :  
70-93.

Lu, M.C. Studies on the sedative effect of *Cistanche deserticola*. J. Ethnopharmacol.  
59 (1998) : 161-165.

Marsden C.A., and Joseph M.H. Biogenic amines. In Lim C.K. (ed.), HPLC of small  
molecules a practical approach. pp. 29-48, Washington DC : IRL Press, 1986.

Mink J.W. Basal ganglia. In Zigmond M.J., Bloom F.E., Landis S.C., Roberts J.L., and  
Squire L.R. (eds.), Fundamental of Neuroscience. pp. 951-972, U.S.A. :  
Academic Press, 1999.

Meng Z.H., and Dar M.S. Dispersion characteristics of [<sup>3</sup>H]-labelled adenosine  
agonist/antagonist following their intrastriatal microinfusion. Meth. Find. Clin.  
Pharmacol. 18(6) (1996) : 373-386.

Mokasmith M. Hypertensive effects of Thai medicinal plants. Newslett. Nat. Res.  
Counc. Thailand. 22 (1981) : 3-4.

Palkovits, M. Isolated removal of hypothalamic or other brain nuclei of the rat.  
Brain Res. 59 (1973) : 449-450.

Palkovits, M., and Brownstein, M.J. Microdissection of brain areas by the punch  
technique. In Cuellar A.C. (ed.), Brain Microdissection Technique. pp. 1-36,  
Chichester : Wiley, 1983.

- Paxinos G., and Watson C. The rat brain in stereotaxic coordinates. New York : Academic Press, 1982.
- Pongboonrod S. Maitet Muang Thai. Bangkok : Kasembunakij, 1981.
- Renner, K.J., and Luine, V.N. Determination of monoamines in brain nuclei by high performance liquid chromatography with electro detection: young vs. middle aged rats. Life Sci. 34 (1984) : 2193-2199.
- Thongsaard W. Behavioural and pharmacological properties of barakol: a natural anxiolytic. A thesis submitted for the degree of Doctor of Philosophy in Physiology and Pharmacology, University of Nottingham, Nottingham, U.K., 1997.
- Satiyavati G.V., Raona M.K., and Sharma M. Medicinal plants of India. New Delhi : Indian Council of Medicinal Research, 1976.
- Thongsaard W., Deachapunja C., Pongsakorn S., Boyd E.A. Bennett G.W. and Marsden C.A. Barakol a potential anxiolytic extracted from *Cassia siamea*. Pharmacol. Biochem. and Behav. 53 (3) (1996) : 753-758.
- Thongsaard W., Pongsakorn S. Sudsuang R. Bennett G.W., Kendall D.A. and Marsden C.A. Barakol a natural anxiolytic, inhibits striatal dopamine release but not uptake in vitro, Eur. J. Pharmacol. 319 (1997a) : 157-164.
- Vermeulen, R.J. Effect of dopamine D1 and D2 receptor agonists on Motor behavior of MPTP-lesioned monkeys. Ph.D.-thesis, Vrije Universiteit Amsterdam, 1994.

## BIOGRAPHY



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