

เอกสารอ้างอิง

- จตุรงค์ เหลาแหลม สุกานดา ไชยยัง ธนพัฒน์ ศาสตรระรุจิ พิษญา มังกรอัสวกุล อารยา จาติเสถียร และชัชววัฒน์ จาติเสถียร. 2552. กิจกรรมด้านจุลินทรีย์ของหนอนตายหยากบางชนิด. การประชุมวิชาการเรื่อง สภาวะโลกร้อน: ความหลากหลายทางชีวภาพและการใช้ประโยชน์อย่างยั่งยืน. มหาวิทยาลัยเกษตรศาสตร์ วิทยาเขตบางแสน. 5 - 6 พฤศจิกายน 2552.
- โชติมา วิไลวัลย์. 2549. สารฆ่าแมลง. (ระบบออนไลน์). แหล่งที่มา: <http://www.chemtrack.org/News-Detail.asp?TID=4&ID=4#a>. 25 สิงหาคม 2554.
- ณัฐกานต์ ธิดา บงกชรัตน์ ปิทยนต์ และสุรพล วิเศษสรรค์. 2551. การแยกสารสกัดบางส่วนจากหนอนตายหยากและผลของสารสกัดต่อหนอนกระทู้หอม. รายงานการประชุมทางวิชาการครั้งที่ 46 มหาวิทยาลัยเกษตรศาสตร์. กรุงเทพมหานคร.
- เต็ม สมิตินันท์. 2523. ชื่อพรรณไม้แห่งประเทศไทย (ชื่อพฤกษศาสตร์-ชื่อพื้นเมือง). พันธุ์พืชฯ ซึ่ง. กรุงเทพมหานคร.
- ทวีศักดิ์ สุนทรธนาศาสตร์. 2554. ยาฆ่าแมลงในบ้านชนิดพ่นฝอย. (ระบบออนไลน์). แหล่งที่มา: http://www.tistr.or.th/t/publication/page_area_show_bc.asp?i1=80&i2=18. 29 กันยายน 2554.
- ธวัช เต๋อโสติกุล. 2554. Cholinergic drugs. (ระบบออนไลน์). แหล่งที่มา: http://www.med.cmu.ac.th/dept/pharmaco/LearningCenter/Tawat/CholinergicDrugs-47_342.pdf. 2 กันยายน 2554.
- นันทวัน บุญยะประภัศร และอรนุช โชคชัยเจริญพร. 2543. สมุนไพรไม้พุ่มบ้าน. กรุงเทพมหานคร.
- พยอม ตันติวัฒน์. 2521. สมุนไพร. สมาคมสมุนไพรแห่งประเทศไทย. กรุงเทพมหานคร.
- พาลาก สิงหเสนี. 2535. พิษของยาฆ่าแมลงต่อผู้ใช้และสิ่งแวดล้อม. สำนักพิมพ์จุฬาลงกรณ์มหาวิทยาลัยกรุงเทพมหานคร. หน้า 71-110.
- ไพฑูรย์ แสนจันต๊ะ. 2545. การศึกษาความเป็นพิษของสารสกัดด้วยน้ำและเอทานอลจากกวาวเครือขาว (*Peuraria mirifica* Airy Shaw & Suvatabandhu). ปัญหาพิเศษวิทยาศาสตร์บัณฑิต สาขาวิชาชีววิทยา คณะวิทยาศาสตร์ มหาวิทยาลัยเชียงใหม่.
- รัตติยา นวลหล้า และพิทยา สรวมศิริ. 2542. การคัดเลือกพืชสมุนไพรป้องกันกำจัดหนอนกระทู้ผัก. *วารสารเกษตร*. 15(2): 192-202.
- เลาจนา ชีรภัทรสกุล และประคอง พันธุ์อุไร. 2520. การศึกษาพิษของหนอนตายหยากที่มีกับหนอนแมลงวันบ้าน. *วารสารกรมวิทยาศาสตร์การแพทย์*. 19(4): 217-227.

- นิสารัตน์ โอภาสเกียรติกุล วัฒนา เลี้ยววัฒนา ดาราวรรณ วนะชีวนาวิน มงคล คุณากร และวนิดา วงศ์ถิรพร. 2545. พยาธิวิทยาคลินิก (Clinical Pathology). สมาคมพยาธิวิทยาคลินิกไทย. กรุงเทพมหานคร. 545 หน้า.
- วาสนา ไชยคำ. 2544. ฤทธิ์ฆ่าแมลงของสารสกัดจากหนอนตายหยาก (*Stemona* sp.) และ เถวัลย์เปรียง (*Derris scandens* Benth.). วิทยานิพนธ์ปริญญาโท สาขาชีววิทยา บัณฑิตวิทยาลัย มหาวิทยาลัยขอนแก่น.
- สุภาณี พิมพ์สมาน รัตนภรณ์ พรหมศรัทธา และสังวาล สมบูรณ์. 2546. สารสกัดจากหนอนตายหยาก (*Stemona* spp.) เพื่อการควบคุมแมลงศัตรูพืช. [ระบบออนไลน์]. แหล่งที่มา: <http://plantpro.doae.go.th/insectpest-research/A-14.pdf>. 18 กันยายน 2554.
- สุรพันธ์ คุณอมรพงศ์. 2554. การอักเสบและการซ่อมแซม. (ระบบออนไลน์). แหล่งที่มา: <http://www.med.cmu.ac.th/dept/patho/Lecture/07-09-inflammation&repair-text.pdf>. 10 กันยายน 2554.
- สำนักควบคุมพืชและวัสดุการเกษตร กรมวิชาการเกษตร. 2554. (ระบบออนไลน์). แหล่งที่มา: <http://m.doa.go.th/ard/stat2.php?cat=2>. 20 สิงหาคม 2554.
- เสงี่ยม พงษ์บุญรอด. 2508. ไม้เทศเมืองไทย. โรงพิมพ์ไทยเทิดธรรม. กรุงเทพมหานคร. หน้า 596.
- อริยาภรณ์ พงษ์รัตน์ กาญจนา รุ่งรัชกานนท์ ศรีประไพ ธรรมแสง วรงค์ นัยวินิจ ภาคภูมิ สืบบุญการณ อารี วัฒนรัตน์ และนิธิตา สุทธิพันธ์. 2546. การศึกษาการผลิตและการขยายพันธุ์หนอนตายหยาก. รายงานการวิจัยโครงการสนับสนุนการวิจัยจากสำนักงานคณะกรรมการวิจัยแห่งชาติ. คณะเกษตรศาสตร์และเภสัชศาสตร์ มหาวิทยาลัยอุบลราชธานี.
- Abalaka, M. E., Olonitola, O. S., Onalapo, J. A. and Inabo, H. I. 2009. Evaluation of acute toxicity of *Momordica charantia* extract using Wistar rats to determine safety levels and usefulness of the plant in ethnochemotherapy. *International journal of pure and applied sciences*. 3(4): 1-6.
- Afful, S., Anim, A. and Serfor-Armah, Y. 2010. Spectrum of organochlorine pesticide residues in fish samples from the Densu basin. *Research Journal of Environmental and Earth Sciences*. 2(3): 133-138.
- Akanitapichat, P., Tongngok, P., Wangmaneerat, A. and Sripanidkulchai, B. 2005. Antiviral and anticancer activities of *Stemona collinsae*. *Thai Journal of Pharmacological Science*. 29(3-4): 125-136.

- Al-Attar, A. M. 2010. Physiological and histopathological investigation on the effects of α -lipoic acid in rats exposed to malathion. *Journal of Biomedicine and Biotechnology*. 2010: 1-8.
- Al-Farwachi, M. I., Rhaymah, M. S. and Al-Badrani, B. A. 2008. Acute toxicity of *Nerium oleander* aqueous leaf extract in rabbits. *Iraqi Journal of Veterinary Sciences*. 22(1): 1-4.
- Aliyu, R., Adebayo, A. H., Gatsing, D. and Garba, I. H. 2007. The effects of ethanolic leaf extract of *Commiphora africana* (Burseraceae) on rat liver and kidney functions. *Journal of Pharmacological and Toxicological Methods*. 2: 373-379.
- Alouani, A., Rehim, N. and Soltani, N. 2009. Larvicidal activity of a neem tree extract (azadirachtin) against mosquito larvae in the Republic of Algeria. *Jordan Journal of Biological Sciences*. 2(1): 15-22.
- Amna, A. A., Abdelgadir, E. H. and Adam, S. E. I. 2011. Toxic effect of *Ipomoea carnea* leaves on Wistar rats. *Journal of Pharmacology and Toxicology*. 6(1): 18-23.
- Amole, O. O. and Izebu, M. C. 2005. Chronic toxicity of *Chenopodium ambrosioides* in rats. *Biomedical Research*. 16(2): 111-113.
- Ashour, A., Yassin, M., Abu, A. M. and Ali, M. 2006. Blood, serum glucose and renal parameters in lead-loaded albino rats and treatment with some chelating agents and natural oils. *Turkish Journal of Biology*. 31: 25-34.
- Asawalam, E. F., Emosairue, S. O., Ekeleme, F. and Wokocho, R. C. 2007. Insecticidal effects of powdered parts of eight Nigerian plant species against maize weevil *Sitophilus zeamais* Motschulsky (Coleoptera: Curculionidae). *Electronic Journal of Environmental, Agricultural and Food Chemistry*. 6(11): 2526-2533.
- Aygun, D., Doganay, Z., Altintop, L., Guven, H., Onar, M., Deniz, T. and Sunter, T. 2002. Serum acetylcholinesterase and prognosis of acute organophosphate poisoning. *Journal of Toxicology and Clinical Toxicology*. 40(7): 903-10.
- Aziz, M. H., Agrawal, A. K., Adhami, V. M., Shukla, Y. and Seth, P. K. 2001. Neurodevelopmental consequences of gestational exposure (GD14-GD20) to low dose deltamethrin in rats. *Neuroscience Letters*. 300: 161-165.
- Balali-Mood, M. and Balali-Mood, K. 2008. Neurotoxic disorders of organophosphorus compounds and their managements. *Archives of Iranian Medicine*. 11(1): 65-89.

- Begum, N., Sharma, B. and Pandey, R. S. 2010. Evaluation of insecticidal efficacy of *Calotropis procera* and *Annona squamosa* ethanol extracts against *Musca domestica*. *Journal of Biofertilizers and Biopesticides*. 1(1): 1-6.
- Bigbee, J. W. and Sharma, K. V. 2004. The adhesive role of acetylcholinesterase (AChE): detection of AChE binding proteins in developing rat spinal cord. *Neurochemical Research*. 29(11): 2043-2050.
- Bigbee, J. W., Sharma, K. V., Chan, E. L. P. and Bogler, O. 2000. Evidence for the direct role of acetylcholinesterase in neurite outgrowth in primary dorsal root ganglion neurons. *Brain Research*. 861: 354-362.
- Bloomquist, J. R. 1933. Insecticide: Chemistries and characteristics. [online]. Available: <http://ipmworld.umn.edu/chapters/bloomq.htm>. 30 August 2011.
- 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 : 6383 – 6388.
- Brimijoin, S. 1983. Molecular forms of acetylcholinesterase in brain, nerve and muscle: nature, localization and dynamics. *Progress in Neurobiology*. 21: 291-322.
- Byers, D. M., Irwin, L. N., Moss, D. E., Sumaya, I. C. and Hohmann, C. F. 2005. Prenatal exposure to the acetylcholinesterase inhibitor methanesulfonyl fluoride alters forebrain morphology and gene expression. *Developmental Brain Research*. 158(1-2): 13-22.
- Cardoso-Lopes, E. M., Maier, J. A., Silva, M. R., Regasini, L. O., Simote, S. Y., Popes, N. P., Pirani, J. R., Bolzani, V. S. and Young, M. C. M. 2010. Alkaloids from stems of *Esenbeckia leiocarpa* Engl. (Rutaceae) as potential treatment for alzheimer disease. *Molecules*. 15(12): 9205-9213.
- Chatonnet, A. and Lockridge, O. 1989. Comparison of butyrylcholinesterase and acetylcholinesterase. *Biochemical Journal*. 260(3): 625-634.
- Choudhary, M. I., Shahnaz, S., Parveen, S., Khalid, A., Ayatollahi, S. A. M., Rahman, A. and Parvez, M. 2003. New triterpenoid alkaloid cholinesterase inhibitors from *Buxus hyrcana*. *Journal of Natural Products*. 66(6): 739-742.
- Chung, H. S., Hon, P. M., Lin, G., But, P. P. and Dong, H. 2003. Antitussive activity of *Stemona* alkaloids from *Stemona tuberosa*. *Planta Medica*. 69: 914-920.

- Collier, J. and Bassendine, M. 2002. How to respond to abnormal liver function tests. *Clinical Medicine*. 2: 406-9.
- Cope, W. G., Leidy, R. B. and Hodgson, E. 2004. Classes of toxicants: use classes. *In*: Hodgson, E. (ed). A textbook of modern toxicology. 3rd ed. The United States of America. pp. 49-74.
- Gagnepain, F. 1934. Stemonaceae. *In*: Lecomte, P. H. (ed). Flore Générale de l'Indo-Chine. Masson & Cie, Paris. 6: 745 –753.
- Carpinella, M. C., Defago, M. T., Valladares, G. and Palacios, S. M. 2003. Antifeedant and insecticide properties of a limonoid from *Melia azedarach* (Meliaceae) with potential use for pest management. *Journal of Agricultural and Food Chemistry*. 51: 369-374.
- Cranshaw, W. 2011. Classes of pesticides used in landscape/nursery pest management. [online]. Available: <http://www.entomology.umn.edu/cues/Web/042ClassesOfPesticides.pdf>. 25 August 2011.
- Cuthbert, A. W. 2011. Acetylcholine. [online]. Available: <http://www.answers.com/topic/acetylcholine#ixzz1Zrx4hio3>
- Darrhe-Shori, T. 2006. Molecular Changes of Acetylcholinesterase and Butyrylcholinesterase in Alzheimer Patients during the Natural Course of the Disease and Treatment with Cholinesterase Inhibitors. [online]. Available: <http://diss.kib.ki.se/2006/91-7140-547-X/thesis.pdf>. 30 July 2011.
- Davern, T. J. and Scharschmidt, B. F. 2002. Biochemical liver tests. *In*: Feldman, M., Friedman, L. S. and Sleisenger, M. H (eds), Gastrointestinal and Liver Disease: Pathophysiology/Diagnosis/Management. 7th ed. Saunders. Philadelphia. pp. 1227-1228.
- Delobel, A. and Malonga, P. 1987. Insecticidal properties of six plant materials against *Caryedon serratus* (Ol.) (Coleoptera: Bruchidae). *Journal of Stored Products Research*. 23(3): 173-176.
- Dori, A., Cohen, J., Silverman, W. F., Pollack, Y. and Soreq, H. 2005. Functional manipulations of acetylcholinesterase splice variants highlight alternative splicing contributions to murine neocortical development. *Cerebral Cortex*. 15(4): 419-430.
- DuBois, K. P. 1971. The toxicity of organophosphorus compounds to mammals. *Bulletin of the World Health Organization*. 44: 233-40.

- El-Demerdash, F. M. 2011. Lipid peroxidation, oxidative stress and acetylcholinesterase in rat brain exposed to organophosphate and pyrethroid insecticides. *Food and Chemical Toxicology*. 49(6): 1342-52.
- Ellman, G. L., Courtney, K. D., Andres, V. and Featherstone, R. M. 1961. A new and rapid colorimetric determination of acetylcholinesterase activity. *Biochemical Pharmacology*. 7: 88-95.
- El-Maghraby, O. I., Taha, H. A. and Hassan, N. S. 2010. Effect of *Anthum graveolens* L. extract on biochemical and histopathological alteration of deltamethrin in rats. *Journal of Bioanalysis and Biomedicine*. 2(1): 008-012.
- Fetoui, H., Makni, M., Garoui, E. M. and Zeghal, N. 2010. Toxic effects of lambda-cyhalothrin, a synthetic pyrethroid pesticide, on the rat kidney: Involvement of oxidative stress and protective role of ascorbic acid. *Experimental and Toxicologic Pathology*. 62: 593-599.
- Forehand, C. 2004. The action potential, synaptic transmission, and maintenance of nerve function. In: Rhoades, R. and Tanner, G. A. (eds). *Medical Physiology*. 2nd ed. Lippincott Williams & Wilkins. pp. 781.
- Fryer, A. D., Lein, P. J., Howard, A. S., Yost, B. L., Beckles, R. A. and Jett, D. A. 2004. Mechanisms of organophosphate insecticide - induced airway hyperreactivity. *American Journal of Physiology Lung Cellular and Molecular Physiology*. 286: L963-L969.
- Garcia-Repetto, R., Martinez, D. and Repetto, M. 1995. Coefficient of distribution of some organophosphorus pesticides in rat tissue. *Veterinary and Human Toxicology*. 37(3): 226-9.
- Garey, J. and Wolff, M. 1998. Estrogenic and antiprogestagenic activities of pyrethriod insecticides. *Biochemical and Biophysical Research Communications*. 251(3): 855-859.
- Gaw, A., Cowan, R. A., O'reilly, D. J., Stewart, M. J. and Shepherd, J. 1999. *Clinical biochemistry an illustrated colour text*. 2nd ed. Harcourt Brace. Edinburgh. pp. 165.
- Giacobini, E. 2002. Long-term stabilizing effect of cholinesterase inhibitors in the therapy of Alzheimer' disease. *Journal of Neural Transmission Suppl*. 62: 181-7.
- Gnanamani, A., Sudha, M., Deepa, G., Sudha, M., Deivanai, K. and Sadulla, S. 2008. Haematological and biochemical effects of polyphenolics in animal models. *Chemosphere*. 72: 1321-1326.

- Harling, R. 1998. Organophosphate pesticides are being tested on students. *British Medical Journal*. 317(7156): 430.
- Hodgson, E. and Levi, P. E. 2004a. Hepatotoxicity. *In*: Hodgson, E. (ed). A textbook of modern toxicology. 3rd ed. The United States of America. pp. 263-272.
- Hodgson, E. and Levi, P. E. 2004b. Nephrotoxicity. *In*: Hodgson, E. (ed). A textbook of modern toxicology. 3rd ed. The United States of America. pp. 263-272.
- http://bio1903.nicerweb.com/Locked/media/ch44/nephron_urine.html
- http://medcell.med.yale.edu/histology/gi2/images/liver_cartoon.jpg
- <http://www.tc.umn.edu/~allch001/1815/pesticide/sim/background.htm>
- http://zoology.muohio.edu/oris/zoo462/notes/13_462.html
- Hu, J. P., Yang, D. H., Lin, W. H. and Cai, S. Q. 2009. Alkaloids from the roots of *Stemona tuberosa*. *Helvetica Chimica Acta*. 92(10): 2129-2133.
- Hunter, J., Maxwell, J. D., Stewart, D. A., Williams, R., Robinson, J. and Richardson, A. 1972. Increased hepatic microsomal enzyme activity from occupational exposure to certain organochlorine pesticides. *Nature*. 237(5355): 399-401.
- Husain, R., Husain, R., Adhami, V. and Seth, P. K. 1996. Behavioral, neurochemical, and neuromorphological effects of deltamethrin in adult rats. *Journal of Toxicology and Environmental Health*. 48(5): 515-26.
- Inestrosa, N. C., Moreno, R. D. and Fuentes, M. E. 1994. Monomeric amphiphilic forms of acetylcholinesterase appear early during brain development and may correspond to biosynthetic precursors of the amphiphilic G4 forms. *Neuroscience Letters*. 173(1-2): 155-158.
- Irie, H., Masaki, N., Ohno, K., Osaki, K., Taga, T. and Uyeo, S. 1970. The crystal structure of a new alkaloid, stemofoline, from *Stemona japonica*. *Journal of the Chemical Society D - Chemical Communications*. 17: 1066.
- Jaijoy, K., Soonthornchareonnon, N., Lertprasertsuke, N., Panthong, A. and Sireeratawong, S. 2010. Acute and chronic oral toxicity of standardized water extract from the fruit of *Phyllanthus emblica* Linn. *International Journal of Applied Research in Natural Products*. 3(1): 48-58.

- Jie, G., Hong-Ping, H., Shun-Lin, L., Hui-Ming, H. and Xiao-Jiang, H. 2010. A new alkaloid from the roots of *Stemona tuberosa* (Stemnaceae). *Plant diversity and Resources*. 32(5): 463-465.
- Kabera, J., Gasogo, A., Uwamariya, A., Ugirinshuti, V. and Nyetera, P. 2011. Insecticidal effects of essential oils of *Pelargonium graveolens* and *Cymbopogon citratus* on *Sitophilus zeamais* (Motsch.) *African Journal of Food Science*. 5(6): 366-375.
- Karem, M., Bedirli, N., Gürbüz, N., Ekinci, Ö., Bedirli, A., Akkaya, T., Şakrak, Ö. and Paşaoglu, H. 2007. Effects of acute fenthion toxicity on liver and kidney function and histology in rats. *Turkish Journal of Medicinal Sciences*. 37(5): 281-288.
- Katsayal, U. A., Nadabo, Y. A. and Isiorho, V. J. 2008. Effects of methanol extract of *Azadirachta indica* leaves on the histology of liver and kidney of Wistar rats. *Nigerian Journal of Pharmaceutical Sciences*. 7(1): 9-14.
- Kaufner, D., Friedman, A., Seidman, S. and Soreq, H. 1998. Acute stress facilitates long-lasting changes in cholinergic gene expression. *Nature*. 393: 373-7.
- Kim, C., Pongphan, D., Wicharatana, C. and Doung, C. 2008. Effectiveness of Non Tai Yak (*Stemona* spp.; Stemonaceae) extracts for controlling some insect pests of cauliflower through foliar application. *Agricultural Science Journal*. 39(9): 193-196.
- Kim, J. R., Kim, H. J. and Kwon, O. S. 2005. Acetylcholinesterase and neuropathy target esterase activity in female and male rats exposed to pesticide terbufos. *Environmental Toxicology and Pharmacology*. 20: 149-156.
- Konoshima, M. 1973. Medicinal Plants in Thailand. Kyoto University Scientific Surveys of Crude Drugs and Medicinal Plants in Thailand, Kyoto.
- Ksheerasagar, R. L. and Kaliwal, B. B. 2006. Histological and biochemical changes in the liver of albino mice on exposure to insecticide, carbosulfan. *Journal of Environmental Sciences*. 4(1): 67-70.
- Kupradinum, P., Tepsuwan, A., Tanthasri, N., Meesiripan, N., Tunsakul, S., Tompat, W., Jarratwisarulporn, Y. and Kusamran, W. R. 2010. Toxicity testing of flowers of neem tree (*Azadirachta indica* A. Juss). *Thai Journal of Veterinary Medicine*. 40(1): 47-55.

- Lamfon, H. A. and Al-Rawi, M. M. 2007. Effect of antox on paraquat-induced histological and biochemical changes in kidney of albino rats. *Journal of Applied Sciences Research*. 3 (10): 988-993.
- Latuszyńska, J., Luty, S., Raszewski, G., Tokarska-Rodak, M., Przebirowska, D., Przylepa, E. and Haratym-Maj, A. 2001. Neurotoxic effect of dermally-applied chlorpyrifos and cypermethrin in wistar rats. *Annals of Agricultural and Environmental Medicine*. 8(2): 163-170.
- Layer, P. G. and Willbold, E. 1995. Novel functions of cholinesterase in development, physiology and disease. *Progress in Histochemistry and Cytochemistry*. 29(3): 1-94.
- Leatemia, J. A. and Isman, M. B. 2004. Insecticidal activity of crude seed extracts of *Annona* spp., *Lansium domesticum* and *Sandoricum koetjape* against lepidopteran larvae. *Phytoparasitica*. 32(1): 30-37.
- Leblanc, G. A. 2004. Toxic action. In: Hodgson, E. (ed). A textbook of modern toxicology. 3rd ed. The United States of America. pp. 213-224.
- Lee, K. Y., Sung, S. H. and Kim, Y. C. 2006. Neuroprotective bibenzyl glycosides of *Stemona tuberosa* roots. *Journal of Natural Products*. 69: 679-681.
- Lin, W. H., Ma, L., Cai, M. S., Barnes, R. A. 1994. Two minor alkaloids from roots of *Stemona tuberosa*. *Phytochemistry*. 36(5): 1333-1335.
- Massoulie, J., Anselmet, A., Bon, S., Krejci, E., Legay, C., Morel, N. and Simon, S. 1999. The polymorphism of acetylcholinesterase: post- translational processing, quaternary associations and localization. *Chemico – Biological Interactions*. 119-120: 29-42.
- Massoulie, J. 2002. The origin of molecular diversity and functional anchoring of cholinesterases. *Neurosignals*. 11: 130-143.
- Mohajeri, D., Mousavi, G., Mesgari, M., Doustar, Y. and Nouri, M. H. K. 2007. Subacute toxicity of *Crocus sativus* L. (Saffron) stigma ethanolic extract in rats. *American Journal of Pharmacology and Toxicology*. 2(4): 189-193.
- Mor, F. and Ozmen, O. 2010. Endosulfan – induced neurotoxicity and serum acetylcholinesterase inhibition in rabbits: The protective effect of Vit C. *Pesticide Biochemistry and Physiology*. 96: 108-112.

- Moss, D. W. and Henderson, A. R. 1996. Enzymes. *In: Fundamental of Clinical Chemistry*. 4th ed. Sounders company. Philadelphia. pp. 283-335.
- Mukherjee, P. M., Kumar, V., Mal, M. and Houghton, P. J. 2007. Acetylcholinesterase inhibitors from plants. *Phytomedicine*. 14: 289-300.
- Mungkornasawakul, P., Chaiyong, S., Sastraruji, T., Jatisatienr, A., Jatisatienr, C., Pyne, S. G., Ung, A. T., Korth, J. and Lie, W. 2009. Alkaloids from the roots of *Stemona aphylla*. *Journal of Natural Products*. 72: 848-851.
- Mungkornasawakul, P., Pyne, S. G., Jatisatienr, A., Supyen, D. Jatisatienr, C., Lie, W., Ung, A. T., Skelton, B. W. and White, A. H. 2004. Phytochemical and larvicidal studies on *Stemona curtisii*: structure of a new pyrido[1,2a] azepine *Stemona* alkaloid. *Journal of Natural Products*. 67: 675-677.
- Nalamwar, V. P., Khadabadi, S. S., Aswar, P. B., Kosalge, S. B. and Rajurkar, R. M. 2009. *In vitro* larvicidal activity of different extracts of *Acorus calamus* Linn. (Araceae) Rhizome. *International Journal of PharmTech Reseach*. 1(1): 96-100.
- Niño, J., Hernández, J., Correa, Y. M and Mosquera, O. M. 2006. *In vitro* inhibition of acetylcholinesterase by crude plant extracts from Colombian flora. *Memorias do Instituto Oswaldo Cruz*. 101(7): 783-785.
- Oduola, T., Bello, I., Adeosun, G., Ademosun, A. W., Raheem, G. and Avwioro, G. 2010. Hepatotoxicity and nephrotoxicity evaluation in Wistar albino rats exposed to *Morinda lucida* leaf extract. *North American Journal of Medical Sciences*. 2(5): 230-233.
- Ophardt, C. E. 2003. Cholinergic Drugs II, Indirect acting cholinergic stimulating agents: Acetylcholinesterase inhibitors. [online]. Available: <http://www.elmhurst.edu/~chm/vchembook/662cholinergic2.html>. 20 August 2011.
- Orhan, I., Sener, B., Choudhary, M. I. and Khalid, A. 2004. Acetylcholinesterase and butyrylcholinesterase inhibitory activity of some Turkish medicinal plants. *Journal of Ethnopharmacology*. 91(1): 57-60.
- Pace, C. J., Glick, S. D., Maisonneuve, I. M., He, L. W., Jokiel, P. A., Kuehne, M. E. and Fleck, M. W. 2004. Novel *Iboga* alkaloid congeners block nicotinic receptors and reduce drug self-administration. *European Journal of Pharmacology*. 492: 159-167.

- Parugrug, M. L. and Roxas, A. C. 2008. Insecticidal action of five plants against maize weevil, *Sitophilus zeamais* Motch. (Coleoptera: Curculionidae). *KMITL Science and Technology Journal*. 8(1): 24-38.
- Parveen, R., Azmi, Mu. A., Naqvi, S. N. H., Mahmood, S. M. and Zaidi, I. H. 2010. Effect of *Cedrus deodara* (Pinaceae) root oil on the histopathology of rat liver and kidney. *Tropical Journal of Pharmaceutical Research*. 9(2): 127-133.
- Pasquet, J., Mazuret, A., Fournel, J. and Koenig, F. H. 1976. Acute oral and percutaneous toxicity of phosalone in the rat, in comparison with azinphosmethyl and parathion. *Toxicology and Applied Pharmacology*. 37(1): 85-92.
- Patil, J. A., Patil, A. J., Sontakke, A. V. and Govindwar, S. P. 2008. Effect of methomyl on hepatic mixed function oxidases in rats. *Indian Journal of Pharmacology*. 40(4): 158-163.
- Pepys, M. B., Hawkins, P. N., Booth, D. R., Vigushin, D. M., Tennent, G. A., Soutar, A. K., Totty, N., Nguyen, O., Blake, C. C. F., Terry, C. J., Feest, T. G., Zalin, A. M. and Hsuan, J. J. 1993. Human lysozyme gene mutations cause hereditary systemic amyloidosis. *Nature*. 362(6420): 553-557.
- Pilli, R. A., Rosso, G. B. and Ferreira de Oliveira, M. C. 2010. The chemistry of *Stemona* alkaloids: and update. *Natural Product Reports*. 27: 1908-1937.
- Quinn, D. M. 1987. Acetylcholinesterase: enzyme structure, reaction dynamics, and virtual transition states. *Chemical Reviews*. 87(5): 955-979.
- Raizada, R. B., Srivastava, M. K., Daushal, R. A. and Singh, R. P. 2001. Azadirachtin, a neem biopesticide: subchronic toxicity assessment in rats. *Food and Chemical Toxicology*. 39(5): 477-483.
- Ranjna, C. 1999. Practical clinical biochemistry methods and interpretation. 2nd ed. p. 117.
- Ray, D. E. 1991. Pesticides derived from plants and other organisms. In: Hayes, W. J. and Laws, E. R. (eds). Handbook of pesticide toxicology. 2nd ed. Toronto Academic Press. pp. 585-593.
- Reigart, J. R. and Roberts, J. R. 1999. Organophosphate Insecticides. In: Reigart, J. R. and Roberts, J. R. (eds). Recognition and Management of Pesticide Poisonings. 5th ed. pp. 34-48.

- Rhee, I. K., Appels, N., Lujendijk, T., Irth, H. and Verpoorte, R. 2003. Determining acetylcholinesterase inhibitory activity in plant extracts using a fluorimetric flow assay. *Phytochemical Analysis*. 14(3): 145-9.
- Robertson, R. T. and Yu, J. 1993. Acetylcholinesterase and neural development: new tricks for an old dog? *News in Physiological Sciences*. 8: 266 –272.
- Sastraruji, T., Chaiyong, S., Jatisatienr, A., Pyne, S. G., Ung, A. T. and Lie, W. 2011. Phytochemical studies on *Stemona aphylla*: Isolation of a new stemofoline alkaloid and six new stemofurans. *Journal of Natural Products*. 74: 60-64.
- Sayim, F., Yavaşoğlu, N. Ü. K., Uyamkgil, Y., Aktuğ, H., Yavaşoğlu, A. and Turgut, M. 2005. Neurotoxic effects of cypermethrin in Wistar rats: a haematological, biochemical and histopathological study. *Journal of Health Science*. 51(3): 300-307.
- Scanlon, V. C. and Sanders, T. 2007. The urinary system. *In*: Scanlon, V. C. and Sanders, T. (eds). *Essential of anatomy and physiology*. 5th ed. Davis, F. A. company. The United States of America. pp. 417-438.
- Schmeller, T., Sauerwein, M., Sporer, F., Wink, M. and Müller, W. E. 1994. Binding of quinolizidine alkaloids to nicotinic and muscarinic acetylcholine receptors. *Journal of Natural Products*. 57(9): 1316-1319.
- Sharp, P. E. and La Regina, M. C. 1998. *The laboratory rats*. Boca Raton: CRC Press. New York. p. 214.
- Shen, T., Tai, K., Henchman, R. H. and Mccammon, J. A. 2002. Molecular dynamics of acetylcholinesterase. *Accouts of Chemical Research*. 35: 332-340.
- Sireeratawong, S., Lertprasertsuke, N., Srisawat, U., Thuppia, A., Ngamjariyawat, A., Suwanlikhid, N. and Jaijoy, K. 2008. Acute and subchronic toxicity study of the extract from *Tiliacora triandra* (Colebr.) Diels in rats. *Songklanakarin Journal of Science and Technology*. 30(5): 611-619.
- Solecki, R. 1999. Pyrethrum extract (pyrethroids). [online]. Available: http://whqlibdoc.who.int/hq/2000/WHO_PCS_00.4_%28pyrethrum%29.pdf. 12 August 2011.
- Soreq, H. and Seidman, S. 2001. Acetylcholinesterase-new roles for an old actor. *Perspectives*. 2: 294-302.

- Soreq, H., Ben-Aziz, R., Prody, C. A., Seidman, S., Gnatt, A., Neville, L., Lieman-Hurwitz, J., Lev-Lehman, E., Ginzberg, D., Lipidot-Lifson, Y. 1990. Molecular cloning and construction of the coding region for human acetylcholinesterase reveals a G+ C-rich attenuating structure. *Proceeding of National Academic of Sciences of the United States of America*. 87(24): 9688-9692.
- Stegelmeier, B. L., Hall, J. O., Gardner, D. R. and Panter, K. E. 2003. The toxicity and kinetics of larkspur alkaloid, methyllycaconitine, in mice. *Journal of Animal Science*. 81(5): 1237–1241.
- Sternfeld, M., Ming, G. L., Song, H. J., Sela, K., Timberg, R., Poo, M. M. and Soreq, H. 1998. Acetylcholinesterase enhances neurite growth and synapse development through alternative contributions of its hydrolytic capacity, core protein, and variable C termini. *Journal of Neuroscience*. 18: 1240-1249.
- Tandon, P and Sirohi, A. 2010. Assessment of larvicidal properties of aqueous extracts of four plants against *Culex quinquefasciatus* larvae. *Jordan Journal of Biological Sciences*. 3(1): 1-6.
- Taylor, P. and Radić, Z. 1994. The cholinesterases: from genes to proteins. *Annual Review of Pharmacology and Toxicology*. 34: 281-320.
- Terada, M., Sano, M, Ishii, A., Kino, H., Fukushima, S. and Naro, T. 1982. Studies on chemotherapy of infestation with parasitic helminthes. III. Effects of tuberostemonine from *Stemona japonica* on the motility of parasitic helminthes and isolated host tissues. *Nippon Yakurigaku Zasshi*. 79: 93-103.
- Tomlin, D. C. S. (Ed.) 1997. The Pesticide Manual. British Crop Production Council. United Kingdom.
- Urzúa, A., Santander, R., Echeverria, J., Cabezas, N., Palacios, S. M. and Rossi, Y. 2010. Insecticide properties of the essential oils from *Haplopappus foliosus* and *Bahia ambrosoides* against the house fly, *Musca domestica* L. *Journal of Chilean Chemical Society*. 55(3): 392-395.
- Vijayalakshmi, T., Muthulakshmi, V. and Sachdanandam, P. 2000. Toxic studies on biochemical parameters carried out in rats with Serankottai nei, a siddha drug-milk extract of *Semecarpus anacardium* nut. *Journal of Ethnopharmacology*. 69(1): 9-15.

- Visetson, S. and Milne, M. 2001. Effects of root extract from derris (*Derris elliptica* Benth) on mortality and detoxification enzyme levels in the diamondback moth larvae (*Plutella xylostella* Linn.). *Kasetsart Journal: Natural Science*. 35(2): 157-163.
- Vishwanathan, R. and Srinivasan, V. 1964. Treatment of OP compound poisoning. *Journal of Indian Medical Association*. 43: 494 - 497.
- Vries, E. and Prat, A. 2005. The blood-brain barrier and its microenvironment: basic physiology to neurological disease. Taylor & Francis Group. New York. p. 519.
- Wang, P., Liu, A. L., Zheng, A., Li, Z. H., Du, G. H. and Qin, H. L. 2007. Novel alkaloids from the roots of *Stemona sessilifolia*. *Chemistry and Biodiversity*. 4(3): 523-530.
- Ware, G. W. and Whitacre, D. M. 2004. An introduction of insecticides (4th edition). [online]. Available: <http://ipmworld.umn.edu/chapters/ware.htm>. 25 August 2011.
- Wongsatit, C. 2000. *Stemona hutanguriana* sp. nov. (Stemonaceae) from Thailand. *Kew Bulletin*. 55(4): 977-980.
- Wongthong, P. and Pimsamarn, S. 2007. Toxicity of *Derris elliptica* Benth Extracts on *Tetranychus truncates* Ehara. *Agricultural Science Journal*. 38(6): 75-78.
- Wszelaki, N., Kuciun, A. and Kiss, A. K. 2010. Screening of traditional European herbal medicines for acetylcholinesterase and butyrylcholinesterase inhibitory activity. *Acta Pharmaceutica*. 60(1): 119-128.
- Wurochekke, A. U., Anthony, A. E. and Obidah, W. 2008. Biochemical effects on liver and kidney of rats administered aqueous stem bark extract of *Xemenia Americana*. *African Journal of Biotechnology*. 7(16): 2777-2780.
- Xu, R. S., Lu, Y. J., Chu, J. H., Iwashita, T., Naoki, H., Naya, Y. and Nakanishi, K. 1982. Studies on some new *Stemona* alkaloids. *Tetrahedron*. 38: 2667-2670.
- Yang, X. Z., Tang, C. P. and Ye, Y. 2005. Stilbenoids from *Stemona japonica*. *Journal of Asian Natural Products Research*. 8: 47-53.
- Yang, X. Z., Zhu, J. Y., Tang, C. P., Ke, C. Q., Lin, G., Cheng, T. Y., Rudd, J. A. and Ye, Y. 2009. Alkaloids from roots of *Stemona sessilifolia* and their antitussive activities. *Planta Medica*. 75: 174-177.
- Zhang, T., Zhang, Y. Z. and Toa, J. S. 2007. Antibacterial constituents from *Stemona sessilifolia*. *Journal of Asian Natural Products Research*. 9(5): 497-485.

Zhang, Y. Z., Xu, G. B. and Zhang, T. 2008. Antifungal stilbenoids from *Stemona japonica*.
Journal of Asian Natural Products Research. 10(7): 634-639.



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