

REFERENCES

- Ahuja, M.L., and Singh, G. Snake bite in Indian. Indian J. med. Res. 42 (1954): 661-686.
- Bhangnada, K. and Perry, J.F. Cardiotoxin effects of cobra venom. JAMA. 183 (1963): 257-259.
- Bougis, P.E., Khelif, A., and Rochat, H. On the inhibition of $[Na^+,K^+]$ -ATPase by the components of *Naja mossambica mossambica* venom: Evidence for two distinct rat brain $[Na^+,K^+]$ -ATPase activities. Biochemistry 28 (1989): 3037-3043.
- Branganca, B.M., Patel, N.T., and Badrinath, P.G. Isolation and properties of a cobra venom factor selectively toxic to Yoshida sarcoma cells. Biochim. Biophys Acta. 136 (1967): 508-520.
- Brunton, T.L., and Fayerer, J. On the nature and physiological action of the poison of *Naja Tripudians* and other Indian venous snakes, pt. 1. Proc. R.Soc. London 21 (1873): 358-374.
- Chaiyabutr, N., Faulkner, A., and Peaker, M. Effects of Starvation on the cardiovascular system, water balance and milk secretion in lactation goat. Res. Vet. Sci. 28 (1980): 291-295.
- Chiu, T.H., Lee, C.Y., and Lee, S.Y. Hemodynamic effects of cardiotoxin isolated from Formosan cobra venom. J. Formosan med. Ass. 67 (1968): 557.
- Chopra, R.N. and Iswariah, V. An experimental investigation into the action of the venom of the Indian cobra-*Naja naia vel tripudians*. Indian J. Med. Res. 18 (1931): 1113-1125.

- Condrea, E. Membrane-active polypeptides from snake venom: carditoxins and haemocytotoxins. Experientia. 30 (1974): 121-129.
- _____, de Vries, A., and Mager, J. Hemolysis and splitting of human erythrocyte phospholipids by snake venoms. Biochim. Biophys. Acta. 84 (1964): 60-73.
- Cushny, A.R., and Yagi, S. On the action of cobra venom. Phil. Trans. B. 208 (1918) : 1-36.
- Dale, H.H., and Richards, A.N. The vasodilator action of histamine and of some other substances. J. Physiol. (Lond.). 52 (1918): 110-165.
- Devi, A., and Sarkar, N.K. Cardiotoxic and cardiotonizing factor in cobra venom. Mem. Inst. Butantan 33(1966): 573-582.
- Doucet, A. and Katz, A.I. High affinity Ca^{2+} - Mg^{2+} ATPase along the rabbit nephron. Am. J. Physiol. 242 (1982): 346-352.
- _____. Na-K-ATPase in the kidney tubule in relation to natriuresis. Kidney Int. 41 (1992): S118-S124.
- Earl, J.E., and Excell, B.J. The effects of toxic components of *Naja nivea* (Cape cobra) venom on neuromuscular transmission and muscle membrane permeability. Comp. Biochem. Physiol. 41A (1972): 597-615.
- Elliot, R.H. A contribution to the study of the action of Indian cobra venom. Phil. Trans. B. 197 (1905): 361-406.
- Epstein, D. The pharmacology of the venom of the Cape cobra (*Naja Flava*). Quart. J. Exp. Physiol. 20 (1930): 7-19.
- Feldberg, W., and Kellaway, C.H. Circulatory effects of the venom of the Indian cobra (*Naja naja*) in cats. Aust. J. exp. Biol. med. Sci. 15 (1937a): 159-172.
- _____, and Kellaway, C.H. Circulatory effects of the venom of the Indian cobra (*Naja naja*) in dogs. Aust. J. exp. Biol. med. Sci. 15 (1937b): 441-460.

- Fryklund, L., and Eaker, D. The complete amino acid sequence of a cardiotoxin from the venom of *Naja naja* (Cambodia cobra). Biochemistry 14 (1975): 2860.
- Gautrelet, J., Halpern, N., and Corteggiani, E. Du mechanisme d'action des doses physiologiques de venin de cobra sur la circulation, la respiration et l'excitabilite neuro-musculaire. Arch. int. Physiol. 38 (1934): 293-352.
- Gottdenker, F. and Wachstein, M. Circulatory effects of the venom of the Indian cobra (*Naja naja*). J. Pharmacol. 69 (1940): 117-127.
- Guyton, A.C. Textbook of Medical Physiology. 8th ed. Philadelphia: W.B. Saunders, 1991.
- Hamilton, W.F., Riley, R.L., Attyah, A.M., Cournand, A.D.M., Fawell, A., Hinimelstein, R.P., Noble, J.W., Remington, D.W., Jr Richard, Wheeler, N.C., and Witham, A.C. Comparison of the Fick and dye injection method of measuring the cardiac output in man. Am. J. Physiol. 153 (1948): 309-321.
- Hanna, W., and Lamb, G. A case of cobra-poisoning treated with Calmette's antivenine. Lancet 1901I (1901): 25-26.
- Harvey, A.L., Marshall, R.J. and Karlsson, E. Effect of purified cardiotoxins from the Thailand cobra (*Naja naja siamensis*) on isolated skeletal and cardiac muscle preparations. Toxicon. 20 (1982): 379-396.
- Karlsson, E. Chemistry of protein toxins in snake venoms. In C.Y. Lee (eds), Handbook of Experimental Pharmacology, Vol. 52, pp. 159-212. Berlin: Springer-Verlag, 1979.
- Kellaway, C.H., and Trethewie, E.R. The liberation of adenyl compounds from perfused organs by cobra venom. Aust. J. exp. Biol. med. Sci. 18 (1940): 63-88.

- Khelif, A., Bougis, P.E., and Rochat, H. Modulation of ouabaine sensitive ($\text{Na}^+ + \text{K}^+$) ATPase activity by elapidae snake venom constituents. Toxicon. 23 (1985): 582.
- Klibansky, C., London, Y., Frenkel, A., and de Vries, A. Enhancing action of synthetic and natural basic polypeptides on erythrocyteghost phospholipid hydrolysis by phospholipase A. Biochim. Biophys. Acta. 150 (1968): 15-23.
- Kuo, T.P., and Wu, C.S. Clinico-pathological studies on snakebites in Taiwan. J. Formosan med. Ass. 71 (1972): 447-466.
- Lankisch, P.G., Schoner, K., Schoner, W., Kunze, H., Bohn, E., and Voge, W. Inhibiton of Na^+ - and K^+ - Activited ATPase by the direct lytic factor of cobra venomm (*Naja naja*). Biochim Biophys Acta. 266 (1972): I33-I34.
- Lee, C.Y. Chemistry and Pharmacology of polypepticle toxins in snake venoms. Ann. Rev. Pharmacol. 12 (1972): 265-286.
- _____. Snake venoms. Handbook of experimental Pharmacology Vol. 52, Berlin: Springer-Verlag, 1979.
- _____, and Peng, M.T. An analysis of the respiratory failure produced by the formosan elapid venoms. Arch. int. Pharmacodyn. 133 (1961): 180-192.
- _____, Chang, C.C., Chiu, T.H., Chiu, P.J.S., Tseng, T.C., and Lee, S.Y. Pharmacological properties of cardiotoxin isolated from Formosan cobra venom. Naunyn-Schmiedebergs Arch-Pharmak. exp. Path. 259 (1968): 360-374.
- _____, Chiu, T.H., and Lee, S.Y. Studies on cardiotoxin and vaso-active substance releasing component(s) of cobra venom: Comparison of hemodynamic effects of cardiotoxin with those of cobra venom. Ann. Rev., U.S. Army Res. Der. Group, Far East, Rep. No. FE. 369-2 (1971): 1-11.

- Lin-Shiau, S.Y., Huang, H.C., and Lee, C.Y. A comparison of the actions of cobra carditoxin and scorpion toxin II on the guinea pig taenia coli. Toxicon 24 (1986): 131-139.
- _____, Huang, M.C., and Lee, C.Y. Mechanism of action of cobra carditoxin in the skeletal muscle. J. Pharmacol. Exp. Ther. 196 (1976): 758-770.
- Lingrel, J.B., Huysse, J.V., O'Brien, W., Jewell-Motz, E., Askew, R., and Schultheis, P. Structure-function studies of the Na, K-ATPase. Kidney Int. 45 Suppl. 44 (1994): S32-S39.
- Louw, A.I., and Visser, L. Kinetics of erythrocyte lysis by snake venom cardiotoxins. Biochim Biophys Acta. 498 (1977): 143-153.
- Meldrum, B.S. Action of whole and fractionated Indian cobra (*Naja naja*) venom on skeletal muscle. Br. J. Pharmacol. 25 (1965): 197-205.
- _____. Depolarization of skeletal muscle by a toxin from cobra (*Naja naja*) venom. J. Physiol. 168 (1963): 49P-50P.
- Muszkat, N.G., Khait, I., Hayashi, K., and Tamiya, N. Photochemically induced nuclear polarization study of exposed tyrosines, tryptophans, and histidines in postsynaptic neurotoxins and in membranotoxins of elapid and hydrophid snake venoms. Biochemistry 48 (1984): 4913-4920.
- Peng, M.T. Action of the venom of *Naja naja atra* on respiration and circulation. Mem Fac. Med. Nat. Taiwan Univ. 2 (1952): 170-183.
- Phillips, S.J. The effect of snake and bee venoms on cardiovascular hemodynamics and function. In: A. de Vris, and E. Kochva (eds.), Toxin of animal and plant origin 2, pp. 683-701. New York: Gordon and Breach, 1972.
- Prayoonpri Khowean. Effects of crude cobra venom from Siamese cobra (*Naja naja kaouthia*) on isolated rat atrial contraction. Master's Thesis, Chulalongkorn University, 1990.

- Ratanabanangkoon, K., Buranawuti, T., and Cherdchu, C. Comparative cardiovascular and respiratory effects of bungarus fasciatus and Naja naja Siamensis venoms in dog. Comp. Biochim. Physiol. 60c (1978): 61-63.
- Reid, H.A. Cobra bites. Brit. Med. J. 2 (1964): 540-545.
- _____, and Lim, K.J. Sea snake bite-a survey of fishing villages in north-west Malaya. Brit. Med. J. 2 (1957): 1266-1272.
- Reuter, H. Calcium channel modulation by neurotransmitters, enzymes and drugs. Nature 301 (1983): 569.
- Rosenberg, J. C., Lillehei, R.C., Longerbeam, J., and Zimmermann, D. Studies on hemorrhagic and endotoxin shock in relation to vasomotor changes and endogenous circulating epinephrine, Norepinephrine and serotonin. Ann. Surg. 154 (1961): 611-628.
- Ross, G., and Jorgensen, C.R. Cardiovascular action of iproveratril. J. Pharmacol. Exp Ther. 158 (1967): 504-509.
- Rowlands, J.B., Mastaglia, F.L., Kakulus, B.A., and Hansworth, D. Clinical and pathological aspects of a fatal case of mulga (*Pseudechis australis*) snakebite. Med. J. Aust. 1 (1969): 226-230.
- Saregoski, M.C., and Freier, E.F. An automated o-toluidine glucase procedure without acetic acid. Am.J.Med.Technol. 39 (1973): 140-150.
- Sarkar, B.B., Maitra, S.R. and Ghosh, B.N. The effect of neurotoxin, haemolysin and choline esterase isolated from cobra venom on heart, blood pressure and respiration. Indian J. Med. Res. 30 (1942): 453-466.
- Sarkar, N.K. Action mechanism of cobra venom, cardiotoxin and allied substances on muscle contraction. Proc. Soc. Exp. Biol. (N.Y.) 78 (1951): 469-471.
- _____. Isolation of cardiotoxin from cobra venom (*Naja tripudians, monocellate variety*). J. Indian Chem Soc. 24 (1947): 227-232.

- Seldin, D.W., and Giebisch, G. The Kidney : Physiology and Pathophysiology. Vol. 2.1, 2nd Ed. New York: Raven Press, 1992.
- Smith, H.W. Principle of renal physiology. London : Oxford University Press, 1962.
- Somchit Eiam-ong. Roles of calcium channels and alpha adrenergic receptors on cardiovascular and renal functions of acute hypercalcemic hypertensive dogs. Master's Thesis, Chulalongkorn University, 1988.
- Tu, A.T. Reptile venoms and toxins: Handbook of natural toxins Vol 5. New York: Marcel Dekker, 1991.
- _____. Venoms: Chemistry and Molecular Biology. New York : Wiley, 1977.
- Vogt, W., Patzer, P., Lege, L., Oldigs, H.D., and Wille, G. Synergism between phosphodipase A and Various peptides and SH-reagents in causing haemolysis. Naunyn-Schiedebergs Arch. Pharmakol. 265 (1970): 442-454.
- Warrel, D.A., Pope, H.M., and Prentice, C.R.M. Disseminated intravascular coagulation caused by the carpet viper : Trial of heparin. Br. J. Haematol. 33 (1976): 335-342.
- Yang, C.C. Chemistry and evolution of toxins in snake venom. Toxicon 12 (1974): 1.
- Yonegawa, M. On the effects of cobra venom. Keio Igaku 6 (1926): 1349-1365.
- Young, M.K., and Raisz, I.G. An anthrone procedure for determination of inulin in biological fluids. Proc.Soc.Exper.Biol. and Med. 80 (1952): 771-774.
- Zaheer, A., Noronha, S.H., Hospattankar, A.V., and Branganca, B.M. Inactivation of ($\text{Na}^+ \cdot \text{K}^+$) stimulated ATPase by a cytotoxic protein from cobra venom in relation to its lytic effects on cells. Biochim Biophys Acta. 394 (1975): 293-303.

BIOGRAPHY

Miss Pratanporn Chua-anusorn was born on October 10, 1967 in Buriram, Thailand. She graduated with B.Sc. in Physical Therapy from Faculty of Associated Medical Science, Khon Kaen University in 1989. She was admitted to the Degree of Master of Science, Inter-Department of Physiology, Chulalongkorn University in 1992.

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย