BIBLIOGRAPHY

Adler, S., and Fraley, D.S. Acid-base regulation : cellular and whole body. In A.I. Arieff, and R.A. DeFronzo (eds.), Fluid, electrolyte, and acid-base disorders, pp. 221-267. Churchill Livingstone, 1985.

AL-Awqati, Q, Norby, L.H., Mueller, A., and Steinmetz, P.R. Characteristics of stimulation of H^+ transport by aldosterone in turtle urinary bladder. J. Clin. Invest. 58 (1976) : 351-358.

Arruda, J.A.L., Sabatini, S., and Westenfelder, C. Vanadate inhibits urinary acidification by the turtle bladder. Kidney Int. 20 (1981) : 772 - 779.

Balfour, W.E., Grantham, J.J., and Glynn, I.M. Vanadate-stimulated natriuresis. Nature 275(1978a) : 768.

_____. Vanadate : A potent inhibitor of renal (Na+K)-ATPase and a powerful diuretic in unanesthetized rats. Kidney Int. 14 (1978b) : 760. (abst)

Benabe, J.E., Cruz-Soto, M.A., and Martinez-Maldonado, M. Critical role of extracellular calcium in vanadate-induced renal vasoconstriction. Am. J. Physiol. 246(1984) : F317-F322.

Boyd, J.E., and Mulrow, P.J. Further studies of the influence of potassium upon aldosterone production in the rat. Endocrinology. 90 (1972) : 299 - 301.

Cantley, L.C.Jr., Josephson, L. Warner, R., Yanagisawa, M., Lechene, C., and Guidotti, G. Vanadate is a potent (Na-K)-ATPase inhibitor found in ATP derived from muscle. J. Biol. Chem. 252(1977) : 7421 - 7423.

Cantley, L.C.Jr., Cantley, L.G., and Josepson, L. A characterization of vanadate interactions with the (Na, K)-ATPase. Mechanistic and regulatory implications. J. Biol. Chem. 253 (1978) : 7361 - 7368.

Crans, D.C., Simone, C.M., Saha, A.K., and Glew, R.H. Vanadate monomers and dimers both inhibit the human prostatic acid phosphatase. Biochem. Biophys. Res. Comm. 165 (1989) : 246 - 250.

Day, H., Middendorf, D., Lukert, B., Heinz, A., and Grantham, J. The renal response to intravenous vanadate in rats. J. Lab. Chem. Med. 96 (1980) : 382 - 395.

Diaz-Diaz, F.D., Labelle, E.F., Eaton, D.C., and DuBose, J.R., T.D. ATP-dependent proton transport in human renal medulla. Am. J. Physiol. 251 (1986) : F297 - F302.

Dixon, T.E., and AL-Awqati, Q. Urinary acidification in turtle bladder is due to a reversible proton translocating ATPase. Proc. Natl. Acad. Sci. USA. 76 (1979) : 3135 - 3138.

Doucet, A., and Marsy, S. Characterization of K-ATPase activity in distal nephron : stimulation by potassium depletion. Am. J. Physiol. 253 (1987) : F418 - F423.

Faller, L.D., et al. Mechanistic aspects of gastric $[H^+-K^+]$-ATPase. Ann. NY. Acad. Sci. 402 (1982) : 146 - 163.

Feest, T.G., and Wrong, O.M. Renal tubular acidosis. In N.F. Jones, and D.K. Peters (eds.), Recent advances in renal medicine, pp. 243-266. Edinburgh : Churchill Livigstone, 1982.

Funder, J.W., et al. Effect of plasma $[K^+]$ on secretion of aldosterone. Endocrinology 85 (1969) : 381 - 384.

Furst, P., and Solioz, M. Formation of a β-aspartyl phosphate intermediate by the vanadate-sensitive ATPase of Streptococcus faecalis. J. Biol. Chem. 260 (1985) : 50 - 52.

Gary, L.C., and Narang, N. Ouabain-insensitive K-Adenosine Triphosphatase in distal nephron segments of the rabbit. J. Clin. Invest. 81 (1988) : 1204 - 1208.

Gluck S., and AL-Awqati, Q. An electrogenic proton translocating adenosine triphosphatase from bovine kidney medulla. J. Clin. Invest. 73 (1984) : 1704 - 1710.

Grantham, J.J. The renal sodium pump and vanadate. Am. J. Physiol. 239 (1980) : F 97 - F 106.

Grantham, J.J., and Glynn, I.M. Renal Na, K-ATPase : determinants of inhibition by vanadium. Am. J. Physiol. 236 (1979) : F 530 - F 535.

Hagege, J., Gabe, M., and Richet, G. Scanning of the apical pole of distal tubular cells under differing acid-base conditions. Kidney Int. 5 (1974) : 137 - 146.

Higashi, Y., and Bello-Reuss, E. Effects of sodium orthovanadate on whole kidney and sigle nephron function. Kidney Int. 18 (1980) : 302 - 308.

Inciarte, D.J., Steffen, R.P., Dobbins, D.E., Swindall, B.J., Johnson, J., and Haddy, F.J. Cardiovascular effects of vanadate in the dog. Am. J. Physiol. 239 (1980) : H47 - H56.

Ives, H.E., and Rector, Jr., F.C. Proton transport and cell function. J. Clin. Invest. 73 (1984) : 285 - 290.

Jandhyala, B.S., and Hom, J.G. Minireview : Physiological and pharmacological properties of vanadium. Life. Sci. 33 (1983) : 1325 - 1340.

Kaunitz, J.D., Gunther, R.D., and Sachs, G. Characterization of an electrogenic ATP and chloride-dependent proton translocating pump from rat renal medulla. J. Biol. Chem. 260 (1985) : 11567 - 11573.

Koeppen, B.M., and Helman, S.I. Acidification of luminal fluid by the rabbit cortical collecting tubule perfused *in vitro*. Am. J. Physiol. 242 (1982) : F 521 - F 531.

Koeppen, B.M., Giebisch, G., and Malnic G. Mechanism and regulation of renal tubular acidification. In Seldin, D.W., and Giebisch, G. (eds.), The Kidney : Physiology and pathophysiology, pp. 1491 - 1527. New York : Raven Press, 1985.

Kumar, A., and Corder, C.N. Diuretic and vasoconstrictor effects of sodium orthovanadate on the isolated perfused rat kidney. J. Pharmacol. Exper. Therap. 213 (1980) : 85 - 90.

Kunau, R.T., Webb, H.L., and Borman, S.C. Characteristics of the relationship between the flow rate of tubular fluid and potassium trasport in the distal tubule of the rat. J. Clin. Invest. 54 (1974) : 1488 - 1495.

Larsen, J.A., Thomsen, O.Q., and Hansen, O. Vanadate-induced oliguria in the anesthetized cat. Acta Physiol. Scand. 106 (1979) : 495 - 496.

Lawrance, P.S., and Jared, J.G., Maintenance of potassium balance, In Lea, and Febiger (eds) Physiology of kidney, pp. 203 - 212. Philadelphia, 1982.

Lopez-Novoa, J.M., Mayol, V., and Martinez-Maldonado, M. Renal actions of orthovanadate in the dog Proc. Soc. Exp. Biol. Med. 170 (1982) : 418 - 426.

Mellman, I., Fuchs, R., and Helenius, A., Acidification of the endocytic and exocytic pathways. Ann. Rev. Biochem. 55 (1986) : 663 - 700.

Morris, R.C. Jr. Renal tubular acidosis. Mechanisms, classification and implications. N Engl. J. Med. 281 (1969) : 1405 - 1413.

Narins, R.G., Jones, E.R., Townsend, R., Goodkin, D.A., and Shay, R.J. Metabolic acid-base disorders : pathophysiology, classification, and treatment. In A.I. Arieff, and R.A. DeFronzo (eds.), Fluid, electrolyte, and acid-base disorders, pp. 269 - 384. Churchill Livingstone, 1985.

Nechay, B.R. Mechanisms of action of vanadium. Ann. Rev. Pharmacol. Toxicol. 24 (1984) : 501 - 524.

Nechay, B.R., et al. Role of vanadium in biology. Fed. Proc. 45 (1986) : 123 - 132.

Phillips, T.D., Nechay, B.R., and Heidelbaugh, N.D., Vanadium : chemistry and the kidney. Fed. Proc. 42 (1983) : 2969 - 2973.

Roman, R.J., Bonventre, J.V., Silva, P., and Lechene, C. Sodium orthovanadate diuresis in rats. J. Pharmacol. Exp. Ther. 218 (1981) : 168 - 174.

Rudnick, G. ATP-driven H^+ pumping into intracellular organelles. Ann. Rev. Physiol 48 (1986) : 403 - 413.

Sachs, G., Faller, L.D., and Rabon, E. Proton/Hydroxyl transport in gastric and intestinal epithelia. J. Membr. Biol. 64(1982) : 123 - 135.

Sallman, A.L., Lubansky, H.J., Talor, Z., and Arruda, J.A. Plasma membrane proton ATPase from human kidney. Eur. J. Biochem. 157 (1986) : 547 - 551. (abst.)

Sanga Nilwarangkur. Renal tubular acidosis. The Bulletin of the Nephrology Society of Thailand. 6 (1987) : 6 - 19.

Schwabe, U., Puchstein, C., Hannemann, H.,and Sochtig, E. Activation of adenylate cyclase by vanadate. Nature (London) 277 (1979) : 143 - 145.

Stanton, B.A., and Giebisch, G.H. Potassium transport by the renal distal tubule : effects of potassium loading. Am. J. Physiol. 243(1982) : F487 - F493.

Steinmetz, P.R., Hauted, R.F.,and Mueller, A. Coupling between H^+ transport and anaerobic glycolysis in turtle bladder vanadate sensitivity of H^+ pump. Clin. Res. 28 (1980) : 560. (abst).

Stone, D.K., Seldin, D.W., Kokko, J.P., and Jacobson, H.R. Mineralocorticoid modulation of medully collecting duct acidification. J. Clin. Invest. 72 (1983) : 77 - 83.

Stone, D.K., and Xie, X. S. Proton Translocating ATPase : Issues in structure and function. Kidney Int. 33 (1988) : 767 - 774.

Toto, R.D. Metabolic acid-base disorders. In J.P. Kokko, and R.L. Tannen (eds), Fluids and electrolytes, pp. 229 - 304. Philadelphia : W.B. Saunders Co., 1986.

Vipada Chaovakul, Sanga Nilwarangkur, and Sumalee Nimmannit "Distal renal tubular acidosis : clinical feature and the effects of long term treatment with alkali", Proc. 1 st National Symp. Urolithiasis and Renal Tubular Acidosis, pp. 162 - 169. Khon Kaen, Thailand, 1987.

Visith Sitprija, et al. Gastric hypoacidity in distal renal tubular acidosis. Nephron 50 (1988) : 395 - 396.

Visith Sitprija, et al. Renal tubular acidosis, vanadium and buffaloes. Nephron 54 (1990) : 97 - 98.

Westenfelder, C., Hamburger, R.K., and Garcia, M.E. Effects of vanadate on renal tubular function

in rats. Am. J. Physiol. 240 (1981) : F 522 - F529.

Wingo, C.S. Active proton secretion and potassium absorption in the rabbit outer medullary collecting duct. J. Clin. Invest. 84 (1989) : 361 - 365.

Youmans, S.J., and Barry, C.R. ATP-dependent H^+ transport by the turtle bladder : NBD-Cl preferentially inhibits the vanadate-insensitive component in isolated membranes. Biochem. Biophys. Res. Commun. 161 (1989) : 312 - 319.

Youmans, S.J., and Brodsky, W.A. Vanadate inhibition of ATP-dependent H^+ transport in membrane vesicles from turtle bladder epithelial cells. Biochem. Biophys. Acta. 900 (1987) : 88 - 102.

Young, D.B. Relationship between plasma potassium concentration and renal potassium excretion. Am. J. Physiol. 242 (1982) : F599 - F603.

BIOGRAPHY

Miss Kannika Chankasem was born on 1st January, 1963 at Petchaburn. She received her high school certificate from Ampornphaisarn School, Nonthaburi in 1982 and Graduated with B.Sc. (Nursing) from the Faculty of Nursing, Mahidol University in 1986.