



BIBLIOGRAPHY

- Antoniou, L.D., G.M. Eisner, L.M. Slotkoff, and L.S. Lilienfeld,
" Relationship Between Sodium and Calcium Transport in
the Kidney, " J. Lab. Clin. Med., 74, 410-420, 1969.
- Avioli, L.V., " Calcium, Cell Function and Cell Death, " Am.
J. Nephron., 6 (Supp.1), 151-154, 1986.
- Baylor, C.H., H.E. VanAlstine, E.H. Keutmann, and B.H. Bassett,
" The Fate of Intravenously Administered Calcium, Effect
on Urinary Calcium and Phosphorus, Fecal Calcium and
Calcium-Phosphorus Balance, " J. Clin. Invest., 29,
1167-1173, 1950.
- Bengele, H.H., E.A. Alexander, and C.P. Lechence,
" Calcium and Magnesium Transport Along the Inner
Medullary Collecting Duct of the Rat, " Am. J. Physiol.,
24-29, 1980.
- Bennett, C.M., " Urine Concentration and Dilution in
Hyperkalemia and Hypercalcemia Dogs, " J. Clin. Invest.,
49, 1447-1465, 1970.
- Bianchetti, M.G., C.B. Piccoli, P. Weidmann, L. Link, K. Boehringer,
C. Ferrier, and J.J. Morton, " Calcium and Blood
Pressure Regulation in Normal and Hypertensive Subjects,"
Hypertension., 5 (Supp II), 57-65, 1983.
- Bohr, D.F., " Electrolytes and Smooth Muscle Contraction, "
Pharmacol. Rev., 16, 85-111, 1964.
- Bohr, D.F., " Vascular Smooth Muscle Updated, " Circ. Res.,

32, 665-672, 1973.

Boullin, D.J., " The Action of Extracellular Cations on the Release of the Sympathetic Transmitter from Peripheral Nerves, " J. Physiol. Lond., 189, 85-99, 1967.

Bourdeau, J.E., and M.B. Burg, " Voltage Dependence of Calcium Transport in the Thick Ascending Limb of Henle's loop, " Am. J. Physiol., 236, 357-364, 1979.

Bourdeau, J.E., and M.B. Burg, " Effect of PTH on Calcium Transport Across the Cortical Thick Ascending Limb of Henle's loop, " Am. J. Physiol., 239, 121-127, 1980.

Brenner, B.M., and F.C. Rector, " Calcium and Magnesium; Renal Handling and Disorder of Metabolism, " The Kidney, (Berry, M.B., ed.), 551-598, W.B. Saunders Company, Philadelphia, 1986.

Brian, R.E., R.A.L. Sutton, and J.H. Dirks, " Effect of Calcium Infusion on Renal Tubular Reabsorption in the Dogs, " Am. J. Physiol., 227, 13-18, 1974.

Brinton, G.S., W. Jubiz, and L.D. Lagerquist, " Hypertension in Primary Hyperparathyroidism : The Role of the Renin - Angiotensin System, " J. Clin. Endo. Meta., 41, 1025-1029, 1975.

Burn, J.H., and W.R. Gibson, " The Release of Noradrenaline from Sympathetic Nerve Fibers in Relation to Calcium Concentration, " J. Physiol., 181, 214-221, 1965.

Bygrave, F.L., " The Ionic Environment and Metabolic Control, " Nature., 214, 667-677, 1967.

- Carol, A.H., R.A.L. Sutton, and H. Dirks, " Effect of Hypercalcemia on calcium and Phosphate Ultrafiltrability and Tubular Reabsorption in the Rat," Am. J. Physiol., 233, 201-206, 1977.
- Cavero, I., and A.G. Roach, " The Pharmacology of Prazosin, a Novel Antihypertensive Agent, " Life Sci., 27, 1525-1527, 1980.
- Chaiyabutr, N., A. Faulkner, and M. Peaker, " Effect of Stravation on the Cardiovascular System, Water Balance and Milk Secretion in Lactating Goat, " Res. Vet. Sci., 28, 291-295, 1980.
- Cheung, W.Y., " Calmodulin Plays a Pivotal Role in Cellular Regulation, " Science., 207, 19, 1979.
- Chiese, M., and E. Carafoli, " The Role of Calmodulin in Skeletal Sarcoplasmatic Reticulum, " Biochemistry., 22, 985, 1983.
- Chomdej, B., P.D. Bell, and L.G. Navar, " Renal Hemodynamic and Autoregulatory Responses to Acute Hypercalcemia.," Am. J. Physiol., 232, 490-496, 1977.
- Coburn, J.W., S.G. Massry, J.R. DePalma, and H. Shinaberger, " Rapid Appearance of Hypercalcemia with Initiation of Hemodialysis, " J. Am. Med. Ass., 210, 2276-2278, 1960.
- Coburn, J.W., S.G. Massry, and C.R. Kleeman, " The Effect of Calcium Infusion on Renal Handling of Magnesium with Normal and Reduced Glomerular Filtration Rate, " Nephron., 7, 131-137, 1970.

- Costanzo, L.S., and E.E. Windhager, " Calcium and Sodium Transport By the Distal Convolute Tubule of the Rat, " Am. J. Physiol., 235, 492-506, 1978.
- Craig, A.B., and P.L. Mendell, " Blockade of Hyperkalemia and Hyperglycemia Induced By Epinephrine in the Frog Liver and in Cats, " Am. J. Physiol., 197, 52-54, 1957.
- Curren, P.F., and J.R. Gill, " The Effect of Calcium on Sodium Transport By Frog Skin, " J. Gen. Physiol., 45, 625-641, 1962.
- DiBona, G.F., " Effect of Hypercalcemia on Renal Tubular Sodium Handling in the Rat, " Am. J. Physiol., 220, 49-53, 1971.
- Doucet, A., and A.I. Katz, " High Affinity Ca-Mg ATPase Along the Rabbit Nephron, " Am. J. Physiol., 242, 346-352, 1982.
- Douglas, W.W., and R.P. Rubin, " The Role of Calcium in the Secretory Response of the Adrenal Medulla to Acetylcholine, " J. Physiol. Lond., 159, 40-57, 1961.
- Earll, J.M., N.A. Kurtzman, and R.H. Moser, " Hypercalcemia and Hypertension, " Ann. Intern. Med., 64, 378-381, 1966.
- Ebashi, S., and F. Ebashi, " A New Protein Component Participating in the Superprecipitation of Myosin B, " J. Biochem., 55, 604-613, 1964.
- Edwards, B.R., R.A.L. Sutton, and J.H. Dirks, " Effect of Calcium Infusion on Renal Tubular Reabsorption in the Dog, " Am. J. Physiol., 227, 13-18, 1974.
- Epstein, F.H., D. Beck, F.A. Carone, H. Levitin, and A. Manitius,

- " Changes in Renal Concentrating Ability Produced By Parathyroid Extract," J. Clin. Invest., 38, 1214-1221, 1959.
- Epstein, F.H., and R. Whittam, " Inhibition of ATP-ase Activity By Calcium, " J. Biochem., 99, 233-238, 1966.
- Epstein, F.H., " Calcium and the Kidney, " Am. J. Med., 45, 700-714, 1968.
- Frakunding, J.L., and K.J. Catt, " Calcium Dependent Regulation of Aldosterone Production in Isolated Adrenal Glomerulosa Cells : Effect of the Ionophore A 23187, " Endocrinology, 110, 2006-2010, 1982.
- Fray, J.C.S., D.J. Lush, and A.N.D. Valentine, " Cellular Mechanisms of Renin Secretion, " Fed. Proc., 42, 3150-3154, 1983.
- Frick, A., G. Rumrich, K.J. Ullrich, and W.E. Lassiter, " Microperfusion Study of Calcium Transport in the Proximal Tubule of the Rat Kidney, " Pflugers Arch., 286, 109-113, 1965.
- Frohlich, E.D., J.B. Scott, and F.J. Haddy, " Effect of Cation on Resistance and Responsiveness of Renal and Forelimb Vascular Beds, " Am. J. Physiol., 203, 583-587, 1962.
- Geisow, M.J., and R.D. Burgoyne, " Recruitment of Cytosolic Proteins to a Secretory Granule Membrane Depends on Ca^{++} -Calmodulin, " Nature, 301, 432, 1983.
- Godfraind, T., and A. Kaba, " Blockade or Reversal of the Contraction Induced By Calcium and Adrenaline in Depolarize Arterial Smooth Muscle, " Br. J. Pharmacol., 36, 550-560,

1969.

Godfraind, T., R. Miller, and M. Wibo, " Calcium Antagonism and Calcium Entry Blockade, " Pharmacol., 38, 321-404, 1986.

Gomeri, G., " A Modification of the Colorimetric Phosphorus Determination for Use with the Photoelectric Colorimeter, " J. Lab. Clin. Med., 27(7), 955-960, 1942.

Greenberg, R., and C.A. Kolen, " Effect of Acetylcholine and Calcium Ions on the Spontaneous of Epinephrine from Catecholamine Granules, " Proc. Soc. Exp. Biol. Med., 121, 1179-1184, 1966.

Haddy, F.J., J.B. Scott, M.A. Florio, R.M. Daugherty, and J.N. Huizenga, " Local Vascular Effects of Hypokalemia, Alkalosis, Hypercalcemia, and Hypermagnesemia, " Am. J. Physiol., 204(2), 202-212, 1963.

Hamilton, W.F., R.L. Riley, A.M. Attyah, A.D.M. Cournand, A. Fawell, R.P. Hinimelstein, J.W. Noble, D.W. Remington, Jr. Richard, N.C. Wheeler, and A.C. Witham, " Comparison of the Fick and Dye Injection Method of Measuring the Cardiac Output in Man, " Am. J. Physiol., 153, 309-321, 1948.

Hellstorem, J., G. Brike, and C.A. Eduall, " Hypertension in Hyperparathyroidism, " Br. J. Urol., 30, 13-24, 1958.

Howard, J.E., R.H. Theda, and T.B. Connor, " On Certain Physiologic Response to Intravenous Injection of Calcium Salts into Normal Hyperparathyroid and Hypoparathyroid Person, " J. Clin. Endo. Meta., 13, 1-15, 1953.

- Howard, H.H., and D.D. Thompson, " Effect of Calcium on Phosphate Metabolism, " J. Clin. Invest., 26, 574-580, 1957.
- Humes, H.D., I. Ichikawa, J.L. Troy, and B.M. Brenner, " Evidence for a Parathyroid Hormone-Dependent Influence of Calcium on the Glomerular Filtration," J. Clin. Invest., 61, 32, 1978.
- Ichikawa, I., H.D. Humes, T.P. Douse, and B.M. Brenner, " Influence of Parathyroid Hormone on Glomerular Ultrafiltration in Rat, " Am. J. Physiol., 234, 393-401, 1978.
- Imbert, M., D. Chabardes, and F. Morel, " Hormone - Sensitive Adenylate Cyclase in Isolated Rabbit Glomeruli, " Mol. Cell. Endocrinol., 1, 295, 1974.
- Issaac, R., J.P. Raymond, M. Rainfray, and R. Ardaillou, " Effect of an Acute Calcium Load on Plasma ACTH, Cortisol, Aldosterone and Renin Activity in Man, " Acta. Endocr., 105, 251-257, 1984.
- Kaibuchi, K., Y. Takai, M. Sawamura, M. Hoshijima, T. Fujikura, and Y. Nishizuka, " Synergistic Function of Protein Phosphorylation and Calcium Mobilization in Platelet Activation, " J. Biol. Chem., 258, 6701, 1983.
- Kirpeker, S.M., And Y. Misu, " Release of Noradrenal By Splenic Nerve Stimulation and Its Dependence on Calcium, " J. Physiol. Lond., 188, 219-234, 1967.
- Kisch, E.S., R.G. Dluhy, and G.H. Williams, " Regulation of Renin Release By Calcium and Ammonium Ions in Normal

- Man, " J. Clin. Endoc. Meta., 43. 1343-1350, 1976.
- Klee, C.B., T.H. Crouch, and P.G. Richman, " Calmodulin, " Ann. Rev. Biochem., 49, 489, 1980.
- Kretsinger, R.H., " Mechanism of Selective Signaling By Calcium," Neurosci. Res. Program. Bull., 19, 217, 1981.
- Laher, I., M.A. Khayal, and J.A. Bevan, " Norepinephrine - Sensitive, Phenoxybenzamine - Resistant Receptor Sites Associated with Contraction in Rabbit Arterial but Not Venous Smooth muscle : Possible Role in Adrenergic Neurotransmission, " J. Pharmacol. Exp. Ther., 237, 364-368, 1986.
- Lassiter, W.E., C.W. Gottschalk , and M. Mylle , " Micropuncture Study of Renal Tubular Reabsorption of Calcium in Normal Rodents. " Am. J. Physiol., 204, 771-784, 1963.
- Lawrence, P. S., and J.G., Jared, " Maintenance of Potassium Balance, " Physiology of the Kidney, 203-212, Lea & Febiger, Philadelphia, 2nd ed., 1982.
- Le Grimellec, C., N. Roinel, and F. Morel, " Simutaneous Mg, Ca, P, K, Na, and Cl Analysis in Rat Tubular Fluid III : During Acute Ca Plasma Loading, " Pflugger Arch., 346, 171, 1974.
- Levitt, M.F., M.H. Halpern, D.P. Polimerous, A.Y. Sweet, and D. Gribert, " The Effect of Abrupt Changes in Plasma Calcium Concentration on Renal Function and Electrolyte Excretion in Man and Monkey, " J. Clin.

- Invest., 37, 294-305, 1958.
- Llach, F., P. Weidmann, M.H. Maxell, J.W. Coburn, and S.G. Massry, " Effects of Acute and Long Standing Hypocalcemia on Pressure and Plasma Renin Activity in Man, " J. Clin . Endo. Meta., 38, 841-847, 1974.
- Llinas , R., I.Z. Steimberg, and K. Walton, " Relationship Between Presynaptic Calcium Current and Postsynaptic potential in Squid Giant Synapse, " Biophys. J., 33, 23, 1981.
- MaCarron, D.A., " Calcium in the Pathogenesis and Therapy of Human Hypertension," Am. J. Med., 78(Supp 2B), 27-34, 1985.
- Marone, C., C.B. Piccoli, E.P. Weidmann, " Acute hypercalcemic Hypertension in Man : Role of Hemodynamics, Catecholamines and Renin, " Kidney Int., 20, 92-96, 1980.
- Marone, C, and P. Weidmann, " Renin - Angiotensin System in Acute Hypercalcemia Hypertension in man, " Am. J. Nephrol., 6 (Supp 1), 40-45, 1986.
- Massry, S.G., J.W. Coburn, L.W. Chapman. and C.R. Kleeman " Role of Serum Ca, Parathyroid Hormone, and NaCl Infusion on Renal Ca and Na Clearances, " Am. J. Physiol., 214, 1403-1409, 1968.
- Maxwell, G.M., R.B. Elliot, and E. Robertson, " Effect of Na-EDTA-Induced Hypocalcemic Upon the General and Coronary Hemodynamics of the Intact Animals, " Am. Heart. J., 66, 82-87, 1963.
- Moore, W.T., and L.H. Jr. Smith, " Experience with a Calcium

- Infusion Test in Parathyroid Disease, " Metabolism, 12, 447-451, 1963.
- Moorehead, U.R., and H.G. Biggs, " 2 - Amino - 2 - Methyl - 1 - Propanol As the Alkalizing Agent in an Improve of Continuous Flow Cresolphthalein Complex One Procedure for Calcium in Serum, " Clin. Chem., 20 (11), 1458-1460, 1974.
- Morel, F., and Y. Murayama, " Simultaneous Measurement of Unidirectional and not Sodium Fluxes in Microperfused Rat Proximal Tubule, " Pflugers Arch., 320, 1-7, 1970.
- Murayama, Y., F. Morel, and C. Le Grimellec, " Phosphate, Calcium and Magnesium Transfers in Proximal Tubules and Loops of Henle, as Measured By Single Nephron Microperfusion Experiments in the Rat, " Pflugers Arch., 333, 1-8, 1972.
- Nama, B., H. Singh, S.W. Reed, H.V. Murdaugh, and B.B. Davis, " Pathogenic Role of Cyclic AMP in the Impairment of Urinary Concentrating Ability in Acute Hypercalcemia, " J. Clin. Invest., 54, 1049-1055, 1974.
- Overbeck, H.W., J.I. Molnar, and F.J. Haddy, " Resistance to Blood Flow through the Vascular Bed of the Forelimb, " Am. J. Cardiol., 8, 533-541, 1961.
- Park, C.S., D.S. Han, and J.C.S. Fray, " Calcium in the Control of Renin Secretion : Ca^{++} Influx As an Inhibitory Signal, " Am. J. Physiol., 240, 70-74, 1981.
- Quamme, G.A., " Effect of Hypercalcemia on Renal Tubular Handling of Calcium and Magnesium, " Can. J. Physio.

- Pharmacol., 60, 1275-1282, 1982.
- Reuter, H., " Calcium Channel Modulation by Neurotransmitters, Enzymes and Drugs, " Nature, 301, 569, 1983.
- Rocha, A.S., J.B. Magaldi, and J.P. Kokko, " Calcium and Phosphate Transport in Isolated Segment of Rabbit Henle's Loop, " J. Clin. Invest., 59, 975-983, 1977.
- Rosenthal, F.D., and S. Roy, " Hypertension and Hyperparathyroidism, " Br. Med. J., 4, 396-397, 1972.
- Rubin, R.P., " The Role of Calcium in the Release of Neurotransmitter Substances and Hormones, " Pharmac. Rev., 22, 289-428, 1970.
- Salvesen, H.A, A.B. Hastings, and J.E. McIntosh, " The Effect of the Administration of Calcium Salts on the Inorganic Composition of the Blood, " J. Biol. Chem., 60, 327-330, 1924.
- Schackney, S., and J. Hasson, " Precipitous Fall in Serum Calcium, Hypertension and Acute Renal Failure After Intravenous Phosphate Therapy for Hypercalcemia, " Ann. Intern. Med., 66, 906-916, 1967.
- Scott, J.B., E.D. Frohlich, R.A. Hardin, and F.J. Haddy, " Na^+ , K^+ , Ca^{++} , and Mg^{++} Action on Coronary Vascular Resistance in the Dog Heart , " Am. J. Physiol., 201, 1095-1100, 1961.
- Seidel, C.L., and D.F. Bohr, " Calcium and Vascular Smooth Muscle Contraction, " Circ Res., 28, 29(supp), 88-95, 1971.
- Shareghi, G.R., and Z.S. Agus, " Magnesium transport in the

- Cortical Thick Ascending Limb of Henle's Loop of the Rabbit, " J. Clin. Invest., 69, 759-769, 1982.
- Shaul, G.M., I. Kunitoshi, and M.C. Vito, " Serum Calcium, Parathyroid Hormone and Blood Pressure, " Am. J. Nephrol., 6 (Supp 1), 19-28, 1986.
- Shiner, P.T., W.S. Harris, and A.M. Weissler, " Effect of Acute Changes in Serum Calcium Levels in the Systolic Time Intervals in Man, " Am. J. Cardiol., 24, 42-48, 1969.
- Shulman, H., and P. Greengard, " Stimulation of Brain Membrane Protein Phosphorylation by Calcium and an Endogenous Heat- Stable Protein Factor, " Nature, 271, 478, 1979.
- Sialer, S., D.H. McKenna, and R.J. Corliss, " Systemic and Coronary Hemodynamic Effect of Intravenous Administration of Calcium Chloride, " Archs. Int. Pharmacodyn. Ther., 169, 177-184, 1967.
- Smith, H.W., in Principle of Renal Physiology, 196-217, Oxford University Press Inc., 1962.
- Somlyo, A.P., " Cellular Site of Calcium Regulation, " Nature, 309, 516, 1984.
- Suki, W.N., G. Eknoyan, F.C. Jr. Rector, and D.W. Seldin " The Renal Diluting and Concentrating Mechanism in Hypercalcemia, " Nephron, 6, 50-61, 1969.
- Suki, W.N., D. Ng. Rose, and J.P. Kokko, " Calcium Transport in the Thick Ascending Limb of Henle, Heterogeneity of Function in the Medullary and Cortical Segments," J. Clin. Invest., 66, 1104-1019, 1980.

- Suki, W.N., and D. Ng. Rouse, " Hormonal Regulation of Calcium Transport in Thick Ascending Limb Renal Tubules, " Am. J. Physiol., 24, 171-173, 1981.
- Sutton, R.A.L., N.L.M. Wong, G.A. Quamme, and J.H. Dirks, " Renal Tubular Calcium Transport : Effect of Change in Filtered Calcium Load, " Am. J. Physiol., 245, 515-520, 1983.
- Sutton, R.A.L., " Disorders of Renal Calcium Excretion, " Kidney Int., 23, 665, 1983.
- Taylor, A., and E.E. Windhager, " Possible Role of Cytosolic Calcium and Na - Ca Exchange in Regulation of Transepithelial Sodium Transport, " Am. J. Physiol., 236, 505-512, 1979.
- Urry, D.W., T.L. Trapane, J.T. Walker, and K.U. Prasad, " On the Relative Lipid Membrane Permeability of Na⁺ and Ca⁺⁺ : A Physical Basis for the Messenger Role of Ca⁺⁺, " J. Biol. Chem., 257, 6649, 1982.
- Vander, J.A., " Regulation of Calcium Balance and Extracellular Concentration, " Renal Physiology, 165-175, McGraw-Hill Book Co., New York, 2nd ed., 1980.
- Vanherweghem, J.L., J. Ducoba, A. D'Hollander, and C. Toussaint, " Effects of Hypercalcemia on Water and Sodium Excretion by the Isolated Dog Kidney, " Pflugers Arch., 365, 75, 1976.
- Wallach, S., and A.C. Carter, " Metabolic and Renal Effects of Acute Hypercalcemia in Dogs, " Am. J. Physiol.,

200, 359-366, 1961.

Watterson, D.M., F. Sharief, and T.C. Vanaman, " The Complete Amino Acid Sequence of Ca^{++} Dependent Activator Protein (Calmodulin) of Bovine Brain, " J. Biol. Chem., 255, 462, 1980.

Weidmann , P., S.G. Massry, J.W. Coburn, M.H. Maxwell, J. Atleson, and C.R. Kleeman, " Blood Pressure Effects of Acute Hypercalcemia, " Ann. Intern. Med., 76, 741-749, 1972.

Weidmann, P., A. Gerber, and K. Laederach, " Calcium Antagonists in the Treatment of Hypertension : A Critical Overview," Adv. Nephrol., 14, 197-232, 1984.

Wolf, A.V., and S.M. Bell, " Effect of Intravenous Calcium Salts on Renal Excretion in the Dog, " Am. J. Physiol., 158, 205-209, 1949.

Yoffee, H.F, and J.F. Dingman, " Effect of Hypercalcemia on Antidiuretic Action of Vasopressin, " Metabolism, 9, 995-1004, 1960.

Young, M.K., and L.G. Raisz, " An Anthrone Procedure for Determination of Inulin in Biological Fluids, " Proc. Soc. Exper. Biol. and Med., 80. 771-774, 1952.



BIOGRAPHY

Miss Somchit Eiam-Ong was born on 30 July, 1959 in Bangkok and Graduated with B.Sc. (Nursing) from Ramathibodi Nursing School, Faculty of Medical Science, Mahidol University in 1982.

