



หนังสืออ้างอิง

- Abraham, G.E., R. Swerdloff, D. Tulchinsky, and W.D. Odell, " Radio-immunoassay of Plasma Progesterone," J. Clin. Endocrinol. Metab., 32, 619-625 , 1971.
- Abraham , G.E., " Radioimmunoassay of Steroids in Biological Materials," In Radioimmunoassay and Related Procedures in Medicine , Vol II, p 3-15, Vienna, International Atomic Energy Agency., 1974.
- Aiyer, M.S., S.A. Chiappa, and G. Fink, " A priming effect of LH-RF on the anterior pituitary gland in the female rat, " J. Endocrinol., 62, 573-581, 1974.
- Aiyer, M.S., M.C. Sood, and K. Brown-Grant, " The pituitary response to exogenous LHRH in steroid treated gonadectomized rats, " J. Endocrinol., 69, 255-263, 1976.
- Anderson, D.C., " Sex-Hormone-binding globulin," Clinical Endocrinology., 3, 69-96, 1974.
- Arimura, A., and A.V. Schally, " Progesterone suppression of LH-releasing hormone-induced stimulation of LH release in rat," Endocrinology., 87, 653-657, 1970.
- Asawaroengchai, H., " Bioactive versus immunoreactive luteinizing hormone (LH) during pituitary gland development in *Macaca fascicularis*," JAFES., 3(2), 103-108, 1983.
- Asawaroengchai, H., " Pituitary Gonadotrophs' Function and Hypothalamic release ability at various stages of the development in *Macaca fascicularis*," Abstr. 2nd Congress of the Asean Federation of Endocrine Society, Bangkok, Thailand, 30 NOV.-3 DEC. 1983.

- Bast, J.D., and G.S. Greenward, " Serum profile of follicle stimulating hormone, luteinizing hormone and prolactin during the estrous cycle of the hamster," Endocrinology., 94, 1295-1299, 1974.
- Beers, W.H., and S. Strickland, " A cell culture Assay for follicle-stimulating hormone," J. Biol. Chem., 253, 3877-3881, 1978.
- Benveniste, R., L.A. Fonman, and D. Rabinowitz, " Heterogeneity of purified human pituitary luteinizing hormone: Effect on hormone measurement by radioimmunoassay, " Endocrinology., 97, 20-29, 1975.
- Blum, W.F.P., G. Riegelbauer, and D. Gupta, " Heterogeneity of rat FSH by chromatofocusing : studies on in-vitro bioactivity of pituitary FSH forms and effect of neuraminidase treatment," J. Endocrinol., 105, 17-27, 1985.
- Bogdonove, E.M., G.T. Campbell, E.D. Blair, M.E. Mula, A.E. Miller, and G.H. Grossman, " Gonad-Pituitary Feedback Involves Qualitative Change:Androgen Alter the Type of FSH Secreted by the Rat Pituitary," Endocrinology., 95, 219-228, 1974.
- Bogdonove, E.M., J.J. Nolin, and G.T. Campbell, " Qualitative and quantitative gonad-pituitary feedback", Recent. Prog. Horm. Res., 31, 567-616, 1975.
- Chappel, S.C., C. Coutifaris, and S.J. Jacobs, " Studies on the Micro-heterogeneity of Follicle-Stimulating Hormone Present within the Anterior pituitary Gland of Ovariectomized Hamsters", Endocrinology., 110, 847-854, 1982.
- Chappel, S.C., A. Ulloa-Aguirre, and C. Coutifaris, " Biosynthesis and secretion of follicle-stimulating hormone ", Endocrine Reviews.,

4, 179-211, 1983.

Chappel, S.C., A. Ulloa-Aguirre, and J.A. Ramaley, " Sexual Maturation in Female Rats : Time-Related Changes in the Isoelectric Focusing Pattern of anterior Pituitary Follicle-Stimulating Hormone", Biology of Reproduction., 28, 196-205, 1983.

Chappel, S.C., C.L. Bethea, and H.G. Spies, " Existence of Multiple of Follicle-Stimulating Hormone within the Anterior Pituitaries of Cynomolgus Monkey", Endocrinology., 155, 452-461, 1984.

Chappel, S.C., and J.A. Ramaley, " Change in the Isoelectric Focusing Profile of Pituitary Follicle-stimulating Hormone in the Developing Male Rat", Biology of Reproduction., 32, 567-573, 1985.

Childs, G.V., D.G. Ellison, and L.L. Garner, " An immunocytochemist's view of gonadotropin storage in the adult male rat B subunits: cytochemical and morphological heterogeneity in serially sectioned gonadotropes", Am.J. Anat. 158, 397-409, 1980.

Clayton, R.N. and K.J. Catt, " GnRH receptors-characterization, physiological regulation and relationship to reproductive function", Endocrine Reviews., 2, 186-209, 1981.

Conn, P.M., J. Marian, M. McMillian, J. Stem, D. Rogers, M. Hamby, A. Penna, and E. Grant, " GnRH action in the pituitary- a three step mechanism", Endocrine Reviews., 2, 174-185, 1981.

De La Llosa, P., and M. Jutisz, " Reversible dissociation into subunits and biological activity of ovine luteinizing hormone", Biochem. Biophys. Acta., 181, 426-436, 1969.

Denef, C., E. Hautekiete, R. Dewals and A. Dewolf, " Differential

- Control of Luteinizing Hormone and Follicle-Stimulating Hormone Secretion by Androgens in Rat Pituitary Cells in Culture : Function Diversity of Subpopulation Separated by Unit Gravity Sedimentation", Endocrinology., 106, 724-729, 1980.
- Deutsch, D.G., and E.T. Mertz, " Plasminogen:Purification from human plasma by affinity chromatography", Science, 170, 1095-1096, 1970.
- Drouin, J., and F. Labrie, " Interaction between 17 B-Estradiol and Progesterone in the Control of Luteinizing Hormone and Follicle-Stimulating Hormone Release in Rat Anterior Pituitary Cells in Culture", Endocrinology, 108, 52-57, 1981.
- Dufau, M.L., I.Z. Beitins, J.W. McArthur, and K.J. Catt," Effect of luteinizing hormone releasing hormone (LH-RH) upon bioactive and immunoreactive serum LH levels in normal subjects", J. Clin. Endocrinol. Met., 43, 658-667, 1976.
- Dufau, M.L., G.D. Hodgen, A.L. Goodman, and K.J. Catt, " Bioassay of circulating luteinizing hormone in the rhesus monkey : Comparison with radioimmunoassay during physiological changes", Endocrinology., 100, 1557-1565, 1977.
- El. Eltreby, M.F., and M.R. Fath El Bab," Localization of gonadotropic hormone in the dog pituitary gland", Cell. Tissue. Res., 220, 167-179, 1977.
- Ellinwood, W.E., and J.A. Resko, " Sex differences in biologically active and immunoreactive gonadotrophins in the fetal circulation of rhesus monkeys", Endocrinology., 107, 902-907, 1980.
- Erickson, G.F., and A.J.W. Hsueh, " Secretion of Inhibin by rat granulosa

- cells in vitro", Endocrinology., 103(5), 1960-1963, 1978.
- Everett, J.W., " Central neural control of reproductive functions of the adenohypophysis", Physiol. Rev., 44, 373-431, 1964.
- Foulds, L.M., and D.M. Robertson, " Electrofocusing fractionation and characterization of pituitary follicle-stimulating hormone from male and female rats", Mole. Cell. Endocrinol., 31, 117-130, 1983.
- Galle, P.C., A. Ulloa-Aguirre, and S.C. Chappel, " Effect of oestradiol, phenobarbitone and luteinizing hormone releasing hormone upon the isoelectric profile of pituitary follicle-stimulating hormone in ovariectomized hamster", J. Endocrinol., 99, 31-39, 1983.
- Green, J.D., and G.W. Harris, " The neurovascular link between the neurohypophysis and adenohypophysis", J. Endocrinol., 5, 136-146, 1947.
- Greenwood, F.C., W.M. Hunter, and J.S. Glover, " The preparation of ¹³¹I-labelled human growth hormone of high specific radioactivity", Biochemical Journal., 89, 114-123, 1963.
- Herbert, D.C., " Localization of antisera to LH B and FSH B in the rat pituitary gland", Am. J. Anat., 144, 379-386, 1975.
- Herbert, D.C., " Immunocytochemical evidence that Luteinizing hormone (LH) and Follicle-stimulating hormone (FSH) are present in the same cell type in the rhesus monkey pituitary gland", Endocrinology", 98, 1554-1557, 1976.
- Hunter, W.M., and F.C. Greenwood, " Preparation of Iodine-131 labelled human growth hormone of high specific activity", Nature., 194,

495-496, 1962.

- Hymer, W.C., " Separation of organelles and cells from the mammalian adenohypophysis," The Anterior Pituitary (Tixier-Vidal, A., and M.G. Farquhar, eds.) pp. 137-180, Academic Press, New York, 1975.
- Jone, H.M., C.L. Wood, and M.E. Rush, " A Role for Inhibin in the control of Follicle-Stimulating Hormone secretion in male rat," Life Sciences, 36(9), 889-900, 1985.
- Kamberi, I.A., and S.M. McCann, " Effects of implants of testosterone in the median eminence and pituitary on FSH secretion," Neuroendocrinol. 9, 20-29, 1972.
- Kennedy, J., and S. Chappel, " Direct Pituitary Effects of Testosterone and Luteinizing Hormone-Releasing Hormone upon Follicle-Stimulating Hormone: Analysis by Radioimmuno- and Radioreceptor Assay," Endocrinology., 116, 741-748, 1985.
- Keutmann, H.T., B. Dawson, W.H. Bishop, and R.J. Ryan, " Structure of human luteinizing hormone alpha subunit," End. Res. Commune., 5, 57-70, 1978.
- Knobil, E., T.M. Plant, L. Wildt, P.E. Belchetz, and G. Marshall, " Control of the Rhesus Monkey Menstrual Cycle: Permissive Role of Hypothalamic Gonadotropin-Releasing Hormone," Science., 207, 1371-1373, 1980.
- Krohn, K., L. Sherman, and M. Welch, " Studies of radioiodinated fibrinogen. I. Physicochemical properties of the ICl, chloramine-T and electrolytic reaction products," Biochimica et Biophysica Acta., 285, 404-412, 1972.

- Krohn, K.A., and M.J. Welch, " Studies of radioiodinated fibrinogen. II. Lactoperoxidase iodination of fibrinogen and model compounds," International Journal of Applied Radiation and Isotopes., 25, 315-323, 1974.
- Leveque, N.W., and H.E. Jr. Grotjan, " Interaction of Progesterone with Testosterone and Dihydrotestosterone on Follicle-Stimulating Hormone release by Rat Anterior Pituitary Cells," Biology Reproduction., 27, 110-117, 1982.
- Liao, T.H., and J.G. Pierce, " The presence of a common type of subunit in bovine thyroid-stimulating and luteinizing hormones," J. Biol. Chem., 245, 3275-3281, 1970.
- Libertun, C., R. Orias, and S.M. McCann, " Biphasic Effect of Estrogen on the Sensitivity of the Pituitary to Luteinizing Hormone Releasing Factor(LRF)," Endocrinology., 94, 1094-1100, 1974.
- Loeber, J.G., " Human luteinizing hormone : structure and function of some preparation," Acta Endocrinol., 85(Suppl. 210), 1-30, 1977.
- Long, J.A., and H.M. Even, " The Oestrous Cycle in the Rats and Its Associated Phenomena," Mesa. Univ. California., 6, 1-148, 1922.
- Lucky, A.W., B.H. Rich, R.L. Rosenfield, V.S. Fang, and N. Roche-Bender, " LH bioactivity increased more than immunoactivity during puberty," J. Pediatr., 97, 205-213, 1980.
- Marshall, F.H.A., and E.B. Verney, " The occurrence of ovulation and pseudopregnancy in the rabbit, as a result of central nervous stimulation," J. Physiol., 86, 327-336, 1936.
- Minegishi, T., M. Igarashi, and K. Wakabayashi, " Measurement of Rat

- serum FSH by Radioreceptor and Comparison with Radioimmunoassay," Endocrinol. Japon., 27(6), 717-725, 1980.
- Miller, W.L., and J. Wu, "Estrogen Regulation of Follicle-Stimulating Hormone Production in Vitro : Species Variation," Endocrinology," 108, 673-679, 1981.
- Miller, C., A. Ulloa-Aguirre, L. Hyland, and S. Chappel, " Pituitary follicle-stimulating hormone heterogeneity : Assessment of biologic activities of each follicle-stimulating hormone form," Fertil. Steril., 40, 242-247, 1983.
- Montanini, V., M.F. Celani, G.F. Baraghini, C. Carani, and P. Marrama, " Effect of acute stimulation with luteinizing hormone-releasing hormone(LRF) on biologically active and immunoreactive serum luteinizing hormone(LH) in pubertal boys," Acta Endocrinol., 107, 289-294, 1984.
- Mukhopadhyay, A.K., F.A. Leidenberger, and V. Lichtenberg, " A Comparison of bioactivity and immunoactivity of LH stored in and released in vitro from pituitary glands of rats under various gonadal states," Endocrinology., 104, 925-931, 1979.
- Norman, D.L., and H.G. Spies, " Effect of luteinizing hormone-releasing hormone on the pituitary-gonadal axis in fetal and infant rhesus monkey," Endocrinology., 105, 655-659, 1979.
- Papkoff, H., A. Gospodarowicz, Candiotti and C.H. LI, " Preparation of ovine interstitial cell-stimulating hormone in high yield," Arch. Biochem. Biophys. 111, 431-438, 1965.
- Papkoff, H., and T.S.A. Samy, " Isolation and partial characterization of polypeptide chains of ovine interstitial cell stimulating

- hormone," Biochim. Biophys. Acta. 147, 175-177, 1967.
- Papkoff, H., and M. Ekblad, "Ovine Follicle stimulating hormone: preparation and characterization of its subunits," Biochem. Biophys. Res. Commun., 40, 614-621, 1970.
- Peckham, W.D., T. Yamaji, D.J. Dierschke, and E. Knobil, "Gonadal Function and the biological and physicochemical properties of follicle-stimulating hormone," Endocrinology., 92, 1660-1666, 1973.
- Peckham, W.D., and E. Knobil, "The effect of ovariectomy, estrogen replacement and neuraminidase treatment on the properties of the adenohipophysial glycoprotein hormone of the rhesus monkey," Endocrinology., 98, 1054-1060, 1976.
- Peckham, W.D., and E. Knobil, "Qualitative changes in the pituitary gonadotropins of the male rhesus monkey following castration," Endocrinology., 98, 1061-1064, 1976.
- Peckham, W.D., and A.F. Parlow, "Isolation from human pituitary glands of three discrete electrophoretic components with high luteinizing hormone activity," Endocrinology., 95, 618-622, 1969.
- Pelletier, G., R. Leclere, and F. Labrie, "Identification of gonadotropic cells in the human pituitary by immunoperoxidase technique," Mol. Cell. Endocrinol., 6, 123-137, 1976.
- Pierce, J.G., O.P. Bahl, J.S. Cornell, and N. Swaminathan, "Biologically active hormone prepared by recombination of the α -chain of human chorionic gonadotropin and the hormone-specific chain of bovine thyrotropin or of bovine luteinizing hormone," J. Biol. Chem., 246, 2321-2324, 1971.

- Pierce, J.G., and T.F. Parsons, " Glycoprotein hormones : structure and function," Annu. Rev. Biochem., 50, 465-495, 1981.
- Rabinowitz, D., R. Benveniste, and J. Bell, " Heterogeneity of human luteinizing hormone.:Behaviour in radioimmunoassay and radio-ligand-receptor assay systems and evidence for the presence of alpha-subunits in serum," Israel J. Med. Sci., 10, 1072-1279, 1974.
- Rathnam, P. and B.B. Saxena, " Primary amino acid sequence of FSH from human pituitary glands. I. α -subunit," J. Biol. Chem., 250, 6735-6747, 1975.
- Reddy, P.V., and K.M.J. Menon, " Existence of multiple molecular forms of luteinizing hormone in rat:differences in immunological and biological activities between stored and circulating form," Acta Endocrinol. 97, 33-41, 1981.
- Reichert, L.E.Jr., " Biological evidence for the subunit structure of human follicle-stimulating hormone," Endocrinology., 89, 925-934, 1971.
- Reichert, L.E., and D.N. Ward, " On the isolation and characterization of the subunits of highly purified FSH," J. Biol. Chem., 249, 5725-5741, 1974.
- Robertson, D.M., and E. Diczfalusy, " Biological and immunological characterization of human luteinizing hormone.: II. A comparison of the immunological and biological activities of pituitary extracts after electrofocusing using different standard preparations," Mol. Cell. Endocrinol., 9, 57-67, 1977.
- Robertson, D.M., B. Froyso, and E. Diczfalusy, " Biological and immuno-

-logical characterization of human luteinizing hormone.: IV. Biological profile of two international reference preparations after electrofocusing," Mol. Cell. Endocrinol., 11, 91-102, 1978.

Robertson, D.M., and L. Foulds, and S. Ellis, " Heterogeneity of rat pituitary gonadotropins on electrofocusing : differences between sexes and after castration," Endocrinology., 111, 385-391, 1982.

Robertson, D.M., M-P. Van Damme, and E. Diczfalusy, " Biological and immunological characterization of human luteinizing hormone.: I. Biological profile in pituitary and plasma samples after electrofocusing," Mol. Cell. Endocrinol., 9, 45-56, 1977.

Ryan, R.J., N-S. Jiang, and S. Hanlon, " Some physical and hydrodynamic properties of human FSH and LH, " Recent Prog. Horm. Res., 26, 105-157, 1970.

Sarker, D.K., S.A. Chiappa, G. Fink, and N.M. Sherwood, " Gonadotropin-releasing hormone surge in proestrous rats," Nature., 264, 461-467, 1976.

Saxena, B.B., and P. Rathnam, " Dissociation phenomenon and subunit nature of follicle-stimulating hormone from human pituitary glands," J. Biol. Chem. 246, 3549-3554, 1971.

Sairam, M.R., H. Papkoff, and C.H. Li, " The primary structure of ovine interstitial cell-stimulating hormone.: I. the α -subunit. Arch. Biochem. Biophys., 153, 554-571, 1972.

Sairam, M.R., T.S.A. Samy, H. Papkoff, and C.H. Li, " The primary structure of ovine interstitial cell-stimulating hormone.: II. the β -subunit," Arch. Biochem. Biophys. 153, 572-586, 1972.

- Schally, A.V., A. Arimura, A.J. Kastin, H. Matsuo, Y. Baby, T.W. Redding, R.M.G. Nair, L. Debeljuk, and W.F. White, "Gonadotropin-releasing hormone : one polypeptide regulates secretion of luteinizing and follicle-stimulating hormone," Science., 173, 1036-1041, 1971.
- Scott, R.S., and H.G. Burger, "Mechanism of action of Inhibin," Biology of Reproduction., 24, 541-550, 1981.
- Shome, B., and A.F. Parlow, "hFSH: First proposal for amino acid sequence of the hormone-specific B-subunit," J. Clin. Endocrinol. Metabol., 39, 203-215, 1974.
- Smith, M.S., M.E. Freeman, and J.D. Neill, "The control of progesterone secretion during the estrous cycle and early pseudopregnancy in the rat prolactin, gonadotropin and steroid levels associated with rescue of the corpus luteum of pseudopregnancy," Endocrinology., 96, 216-231, 1975.
- Solano, A.R., A. Garcia Vela, K.J. Catt, and M.L. Dufau, "Modulation of serum and pituitary luteinizing hormone bioactivity by androgen in the rat," Endocrinology., 106, 1941-1948, 1980.
- Spies, H.G., R.L. Norman, S.C. Chappel, K. Pavasuthipaisil, and D.L. Hess, "Neural control of pituitary hormone secretion in the Rhesus macaque," Proceeding of the VI International Congress of Endocrinology., Melbourne, Australia, February, 1980.
- Stockell Hartree, A., M. Thomas, M. Braikevitch, E.T. Bell, D.W. Christie, G.V. Spaul, R. Tayler, and J.G. Pierce, "Preparation and properties of subunits of human luteinizing hormone," J. Endocrinol. 51, 169-181, 1971.

properties of different molecular species of human follicle-
-stimulating hormone : Electrofocusing profiles of eight highly
purified preparation," J. Endocrinol., 92, 195-204, 1982.

Zaidi, A.A., D.M. Robertson, and E. Diczfalusy, " Studies on the
biological and immunological properties of human follitropin:
Profiles of two international reference preparations and of
an aqueous extract of pituitary glands after electrofocusing,"
Acta. Endocrinol. 97, 157-165, 1981.



ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

- Storring, P.L., A.A. Zaidi, Y.G. Mistry, M. Lindberg, B.E. Stenning, and E. Diczfalusy, " A comparison of preparation of highly purified human pituitary luteinizing hormone : difference in the luteinizing hormone potencies as determined by in vivo bioassay, in vitro bioassay and immunoassay," Acta Endocrinol., 101, 339-347, 1982.
- Strollo, F., J. Harlin, H. Hernandez-Montes, D.M. Robertson, A.A. Zaidi, and E. Diczfalusy," Qualitative and quantitative differences in the isoelectrofocusing profile of biologically active lutropin in the blood of normally menstruating and postmenopausal women," Acta Endocrinol. 97, 166-175, 1981.
- Torresani, T., E. Schuster, and R. Illig, " Bioactivity of plasma luteinizing hormone in infants and young children," Acta Endocrinol., 103, 326-330, 1983.
- Ulloa-Aguirre, A., and S.C. Chappel, " Multiple species of follicle-stimulating hormone exist within the anterior pituitary gland of male golden hamster," J. Endocrinol., 95, 257-266, 1982.
- Ulloa-Aguirre, A., C. Coutifaris, and S.C. Chappel, " Multiple species of FSH are present within hamster anterior pituitary cells cultured in vitro," Acta Endocrinol., 102, 343-350, 1983.
- Vaitukaitis, J.L., G.T. Ross, L.E.Jr. Reichert, and D.N. Wald," Immunologic basis for within and between species cross-reactivity luteinizing hormone," Endocrinology., 91, 1337-1342, 1972.
- Van Damme, M-P., D.M. Robertson, and E. Diczfalusy, " Biological and immunological characterization of human luteinizing hormone.: III. Biological and immunological profiles of urinary preparation

- after electrofocusing," Mol. Cell. Endocrinol., 9, 69-79, 1977.
- Van Hell, H., R. Malthijssen, and G.A. Overbeck, " Effect of human menopausal gonadotropin preparation in different bioassay method," Acta Endocrinol., 48, 409-418, 1964.
- Vijayan, E., M.S. Sankaran, and A.R. Sheth, " Correlation between pituitary sialic acid and FSH concentration during development and after castration and testosterone treatment in the male rat," Neuroendocrinol., 15, 177-189, 1974.
- Ward, D.N., and J.A. Coffey, " analysis of acetyl groups in ovine luteinizing hormone by gas chromatography," Biochemistry., 3, 1575-1577. 1964.
- Weick, R.F., " A comparison of the disappearance rates of luteinizing hormone from intact and ovariectomizing rats," Endocrinology., 101, 157-167, 1977.
- Wide, L., " Male and female forms of human follicle-stimulating hormone in serum," J. Clin. Endocrinol. Metab., 55, 682-688, 1982.
- Wide, L., and B.M. Hobson, " Qualitative differences in follicle-stimulating hormone activity in the pituitaries of young women compared to that of men and elderly women," J. Clin. Endocrinol. Metab., 56, 371-375, 1983.
- Wide, L., and M. Wide, " Higher plasma disappearance rate in the mouse for pituitary follicle-stimulating hormone of young women compared to that of men and elderly women," J. Clin. Endocrinol. Metab., 58, 426-429, 1984.
- Zaidi, A.A., B. Froysa, and E. Diczfalusy, " Biological and immunological

ประวัติผู้เขียน

พันตรี ถวัลย์ ฤกษ์งาม เกิดเมื่อวันที่ 30 มิถุนายน 2496 สำเร็จปริญญา
 วิทยาศาสตรบัณฑิต (เทคนิคการแพทย์) มหาวิทยาลัยมหิดล เมื่อปีการศึกษา 2513 ปัจจุบัน
 รับราชการตำแหน่ง ประจำแผนกพยาธิวิทยา โรงพยาบาลค่ายสุรนารี กรมแพทย์ทหารบก
 จังหวัดนครราชสีมา



ศูนย์วิทยทรัพยากร
 จุฬาลงกรณ์มหาวิทยาลัย