

บรรณานุกรม

- Astwood, E.B., Raben, M.S., Payne, R.W. and Grady, A.B. (1951).  
J. Amer. Chem. Soc. 73, 2969.
- Anderson, E. (1966). Science. 152, 379.
- Brown-Sequard, C.E. (1858). J. Physiol. Path. Gen. 1, 160.
- Bourne, G.H. (1949). In The Mammalian Adrenal Gland, Oxford:  
Clarendon Press.
- Bayliss, R.I.S., Broune, J.C.M., Round, B.P. and Steinbeck, A.W.  
(1955). Cancet, I, 62.
- Bongiovanni, A.M., Eberlein, W.R., Westphal, M. and Baggs, T.  
(1958). J. clin. Endocr. & Metab. 18, 1127.
- Braunsberg, H. and James, V.H.T. (1960). J. Endocrin. 21, 327.
- Braunsberg, H. and James, V.H.T. (1961). J. clin. Endocr. &  
Metab. 21, 1146.
- Bertrand, J., Gilly, R. and Loras, B. (1962). In The Human Adrenal  
Cortex, p.608. Ed. by Currie, A.R., Symington, T. and Grant,  
J.K. Edinburgh. London : E. & S. Livingstone Ltd.
- Brounlie, B.E.W., Abernethy, M.H. and Beaven, D.W. (1969). Austra-  
lasian Annals of Med. 18, 50.
- Cushing, H. (1932). In Papers Relating to the Pituitary Body,  
Hypothalamus and Parasympathetic Nervous System, Ed. by  
Thomas, C.A. I 11 : Springfield.

- Callow, N.H. and Emmens. (1938). *Biochem. J.* 32, 1312.
- Carstensen, H., Burgers, A.C.J. and Li, C.H. (1961). *Gen. & Comp. Endocr.* 1, 37.
- Cantarow, A. and Trumper, M. (1962). In Clinical Biochemistry, p.563. Sixth ed. Philadelphia. London: W.B. Saunders Comp.
- Cortés, J.M. Péron, F.G. and Dorfman, R.I. (1963). *Endocrin.* 73, 713.
- Collins, K.J., Few, J.D., Forward, T.J. and Giec, L.A. (1968). *J. Physiol. (London)*. 194, 33.
- Daiane, H.W. and Selligman, A.M.(1953). *Vitamins and Hormones*. 11, 173.
- de Moor, P., Steeno, O., Raskin, M. and Hendriks, A. (1960). *Acta Endocrin. Kbh.* 33, 297.
- de Roos, R. (1960). *Endocrin.* 67, 719.
- de Roos, R. (1961). *Gen. & Comp. Endocrinol.* 1, 494.
- de Roos, R. (1963). In The Physiology of the Avian Interrenal Gland: A Review, Vol.2. p.1041. Ed. by Sibley, C.G. Proc. 13th Internat. Ornithological Congress.
- Espiner, E.A. (1966). *J. Endocrin.* 35, 29.
- Glenn, E.M. and Nelson, D.H. (1953). *J. clin. Endocr. & Metab.* 13, 911.



- Goldzieher, J.W., Bodenchunk, J.M. and Nolan, P. (1954).  
Anal. Chem. 26, 853.
- Grant, J.K. (1960). In The Biosynthesis and Secretion of Adrenocortical Steroids, p.26. Ed. by Clark, F. and Grant, J.K. The Syndics of the Cambridge University Press.
- Gray, C.H., Greenaway, J.M. and Holness, M.J. (1961). In Hormones in Blood, p. 439. Ed. by Gray, C.H. and Bacharach, A.L. New York: Academic Press.
- Guillemin, R., Clayton, G.W., Smith, J.D. and Lipscomb, H.S. (1958).  
Endocrinol. 63, 349.
- Hume, D.M., Nelson, D.H. and Miller, D.W. (1956). Ann. Surg. 143, 316.
- Heftmann, E. and Mosettig, E. (1960). In Biochemistry of Steroids, p. 117. New York : Reinhold Publishing Corporation. Tokyo: Charles E. Tuttle Company.
- Hillman, D.A. and Giroud, C.J.P. (1965). J. clin. Endocr. & Metab. 25, 243.
- Iturzaeta, N.F., Hillman, D.A. and Colle, E. (1970). J. clin. Endocr. & Metab. 30, 185.
- Jenkins, J.S. (1961). In The Adrenal Cortex, p. 33. Ed. by McGowan, G.K. and Sandler, M. London : Pitman.

- James, V.H.T. and Caie, E. (1964). J. clin. Endocr. & Metab. 24, 180.
- Kenny, F.M., Malvaux, P. and Migeon, C.J. (1963). Pediatrics, 31, 360.
- Kenny, F.M., Preeyasombat, C. and Migeon, C.J. (1966). Pediatrics. 37, 34.
- Kruger, F.A., Wieland, R.G., Maynard, D.E., Schachner, S.H. and Hamwi, G.J. (1965). Metabolism. 14, 199.
- Landou, B.R. (1965). Vitamins and Hormones. 23, 1.
- Migeon, C.J., Prystowsky, H., Grumbach, M.M. and Byron, M.C. (1956 a). J. clin. Invest. 35, 488.
- Migeon, C.J., Tyler, F.H., Mahoney, J.P., Florentin, A.A., Castle, H., Bliss, E.L. and Samuels, L.T. (1956 b). J.clin. Endocr. & Metab. 16, 622.
- Migeon, C.J. (1959). J. Pediatrics. 55, 280.
- Migeon, C.J., Bertrand, J. and Gemzell, C.A. (1961). Recent Prog. Horm. Res. 17, 207.
- Maccullagh, E.P. and Tretbar, H.A. (1958). J. clin. Endocr. & Metab. 18, 134.
- Malmejac, J. (1958). Bull. Acad. Roy. Med. Belg. 23, 50.
- Mattingly, D. (1962). J. clin. Path. 15, 374.

- Meites, S. and Faulkner, W.R. (1962). In Manual of Practical micromethod and General procedure in Clin. Chem., p. 199. Ed. by Thomas, C.A. I 11: Springfield.
- Murphy, B.E. and Pattee, C.J. (1963). J. clin. Endocr. & Metab. 23, 459.
- Moncloa, F. and Pretell, E. (1964). J. clin. Endocr. & Metab. 24, 915.
- Martin, M.M. and Martin, A.L.A. (1968). J. clin. Endocr. & Metab. 28, 137.
- Nandi, J. and Bern, H.A. (1965). Gen. & Comp. Endocr. 5, 1.
- Nelson, N. (1944). J. biol. Chem. 153, 375.
- Nelson, D.H. and Samuels, L.T. (1952), J. clin. Endocr. & Metab. 12, 519.
- Nelson, D.H. Meakin, J.W. and Thorn, G.W. (1960). Ann. intern. Med. 52, 560.
- Nelson, D.H. (1969). Postgrad. Med. 46, 135.
- Neher, R. (1958). In An International Symposium on Aldosterone, p. 11. London : J. & A. Churchill Ltd.
- Morymberski, J.K. (1961). In The Adrenal Cortex, p.88. Ed. by McGowan, G.K. and Sandler, M. London: Pitman.
- Porter, C.C. and Silber, R.H. (1950). J. biol. Chem. 185, 201.

- Peterson, R.E. and Wyngaarden, J.B. (1956). *J. clin. Invest.* 35, 522.
- Peterson, R.E. Hertz, R. and Lubs, H.A. (1957). *Proc. Soc. exp. Biol. New York.* 94, 421.
- Patterson, J. (1961). In The Adrenal Cortex, p. 74. Ed. by McGowan, G.K. and Sandler, M. London : Pitman.
- Pincus, G. (1962). In The Human Adrenal Cortex, p. 85. Ed. by Currie, A.R., Symington, T. and Grant, J.K. Edinburg. London : E. & S. Livingstone Ltd.
- Pal, S.B. (1966). *Acta Endocr.* 51, 415.
- Purves, H.D. and Sirett, N.E. (1969). *Aust. J. exp. Biol. med. Sci.* 47, 589.
- Russell, J.A. and Wilhelmi, A.E. (1941). *J. biol. Chem.* 140, 747.
- Richstein, T. and Shoppee, C.W. (1943). *Vitamins and Hormones.* 1, 345.
- Roy, E.J. and Mackay, R. (1962). *J. Obstet. Gynec. Brit. Commonw.* 69, 13.
- Soskin, S., Allwiss, M.O. and Cohn, D.J. (1934). *Am. J. Physiol.* 109, 155.
- Soskin, S. and Mirsky, I.A. *ibid.* (1935). 112, 649.
- Soskin, S. Zimmerman, L.M. and Heller, R.C. *ibid.* (1936). 114, 648.

- Sandor, T., Lamoureux, J. and Lanthier, A. (1963). *Endocrin.* 73, 629.
- Sydnor, K.L. and Sayers, G. (1953). *Proc. Soc. exp. Biol. New York.* 79, 432.
- Sweat, M.L. (1954). *Anal. Chem.* 26, 773.
- Silber, R.H. and Porter, C.C. (1954). *J. biol. Chem.* 210, 923.
- Stewart, C.P., Albert-Recht, F. and Osman, L.M. (1961). *Clin. Chim. Acta.* 6, 696.
- Spiegel, M.R. (1961). In Schaum's Outline Series Theory and Problems of Statistics, p. 188. New York: Schaum Publishing Co.
- Skoog, D.A. and West, D.M. (1966). In Fundamental of Anal. Chem., p. 639. New York : Holt, Rinehart & Winston.
- Schneeberg, N.G. (1970). In Essentials of clin. Endocr., p. 217. St. Louis : The C.V. Mosby Company.
- Slaunwhite, W.R. Jr. and Sandberg, A.A. (1970). *Acta Endocr.* 64, 144.
- Talbot, N.B., et al (1940). *J. Med.* 223, 369.
- Turner, C.D. (1966). In General Endocrin., p.342. Fourth ed. Philadelphia. London: W.B. Saunders Co. Tokyo : Toppan Co., Ltd.
- Uozumi, T., Manabe, H., Tanaka, H., Hamanaka, Y., Kotoh, K., Suzuki, K. and Matsumoto, K. (1969). *Acta Endocr.* 61, 17.

Wintersteiner, O. and Pfiffner, J.J. (1936). *J. biol. Chem.* 116,  
291.

West, E.S. and Todd, W.R. (1963). In Textbook of Biochemistry,  
p.593. and p. 942. Third ed. New York : The Mc.Millan Co.

Wilkins, L. (1965). In The diagnosis and treatment of endocrine  
disorders in childhood and adolescence, p. 62 and p. 342.  
Third ed. Ed. by Blizzard, R.M. and Migeon, C.J. I 11 :  
Thomas, C.C. Springfield.

Williams, R.H. (1968). In Textbook of Endocrinology, p. 287.  
Philadelphia : Saunders.

Yates, F.E. (1967). In The Adrenal Cortex, p. 133. Boston, Mass.:  
Little Brown Co.

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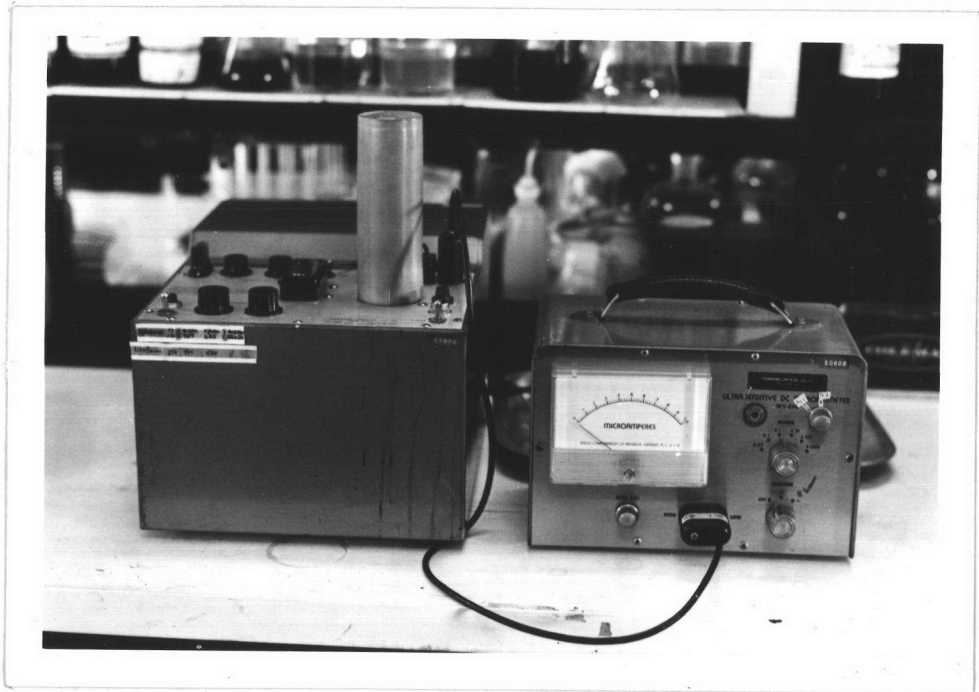


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