

DAVID J. MORRIS, Ph.D

PUBLICATIONS:

1. Morris, D.J. 1963. Stereochemical and spectrographic studies of steroid compounds. D. Phil. Thesis, Oxford Univ..
2. Hampson, D.J., Meakins, G.D. and Morris, D.J. 1966. Hydroxysteroids. Part V. Oxidation of 2-hydroxymethylene-4, 4-dimethyl-3-ketones with alkaline peroxide. J. Chem. Soc. 1277.
3. Meakins, G.D. and Morris, D.J. Hydroxysteroids. Part X. Preparation and properties of A-homo-5 cholestan-4-one. J. Chem. Soc. 394.
4. McGinnis, E.L., Meakins, and Morris, D.J. 1967. Studies in the steroid group. Derivatives of 22, 23-dihydroneoergosterol. J. Chem. Soc. 1, 1238.
5. Morris, D.J. and Barnes, F.W. Jr. 1967. On the intracellular distribution of (4-¹⁴C) cortisol in rat liver. Biochemica et Biophysica Acta 1, 67-68.
6. MacMillan, J. and Morris, D.J. 1969 Tricyclic dimers of propenylphenyl ethers - N.M.R. and Stereochemistry. Tetrahedron 25, 905.
7. Morris, D.J., Sarma, M.H., and Barnes, F.W. Jr. 1970. Labelled complexes in liver cytosol after administration of (4-¹⁴C) corticosterone and (4-¹⁴C) cortisol. Endocrinology 87, 486-493.
8. Morris, D.J. and Davis, R.P. 1973. Complex formation by ³H-aldosterone in rat kidney and liver. Steroids 21, 383-396.
9. Morris, D.J. and Davis, R.P. 1973. Sex dependence of aldosterone response in rats. Metabolism 22, 923-926.
10. Morris, D.J., Berek, J.S., and Davis, R.P. 1973. The physiological response to aldosterone in adrenalectomized and intact rats and its sex dependence. Endocrinology 92, 989-993.
11. Morris, D.J., Berek, J.S. and Davis, R.P. 1973. Sex dependence of the metabolism of aldosterone in adrenalectomized and intact rats. Steroids 21, 397-407.
12. Morris, D.J. and Davis, R.P. 1974. Progress in endocrinology and metabolism. Aldosterone, concepts. Review on mechanisms of action of aldosterone. Metabolism 23, 473-495.

13. Morris, D.J. 1974. Drug metabolism and monitoring of therapeutic drug levels. R.I. Med. J. 57, 461-464.
14. Morris, D.J., Graham, W.G., and Davis, R.P. 1975. The metabolism and binding properties of ³H-aldosterone in plasma and its sex dependence in adrenalectomized rats. Endocrinology 96, 178-184.
15. Morris, D.J. and Silverman, J. 1975. Sex dependence of bile secretion of aldosterone in rats. Endocrinology 96, 1360-1365.
16. Morris, D.J., Caron, P., Graham, W., DeConti, G., and Silverman, J. 1975. Sex dependence of clearance rates of aldosterone and its metabolites from plasma in intact rats. Steroids 25, 763-771.
17. Morris, D.J. and DeConti, G.A. 1976. The effects of castration and treatment with testosterone on the biliary excretion of ³H-aldosterone in rats. Endocrinology 99, 476-480.
18. Morris, D.J., Silverman, J.A., and Tsai, R. 1976. Fecal and urinary excretion of ³H-aldosterone and its sex dependence in rats. J. Steroid Biochem. 7, 410-415.
19. Morris, D.J., Tsai, R. and DeConti, G. 1976. Regulation of plasma levels of aldosterone and its metabolites in rats during the latent period of aldosterone. J. Steroid Biochem. 7, 971-978.
20. Morris, D.J., Hantoot, M.S., and DeConti, G.A. 1977. The enterohepatic circulation of aldosterone metabolites and its sex dependence in rats. Endocrinology 101, 1776-1784.
21. Morris, D.J., Douglis, F., and DeConti, G.A. 1978. Effects of high potassium diet on metabolism of aldosterone in rats. Metabolism 27, 735-742.
22. Tsai, R. and Morris, D.J. 1978. The effects of spironolactone on the hepatic metabolism of aldosterone in male rats. Endocrinology 103, 1239-1244.
23. Morris, D.J., DeConti, G.A., and Latif, S.A. 1979. The mineralocorticoid properties of reduced metabolites of aldosterone. J. Endocrinology 81, 111P-112P.
24. Morris, D.J. 1979. The biological significance of reduced metabolites of aldosterone. Human Pathology 10, 128-131.
25. Tsai, R., Davis, R.P., and Morris, D.J. 1980. The effect of the antimineralocorticoids spironolactone on the hepatic synthesis of polar metabolites of aldosterone male rats. J. Steroid Biochem. 13, 481-487.

26. Morris, D.J. and Tsai, R. 1980. Chromatographic separation of aldosterone and its metabolites. In - Advances in Chromatography. Vol. 19, Chap. 6 (Ed. Giddings, J.C.) Marcel Dekker, pp. 261-285.
27. DeConti, G.A., Greene, E., and Morris, D.J. 1981. The effect of treatment with estradiol on the biliary excretion of ³H-aldosterone in male rats. J. Steroid Biochem. 143, 231-233.
28. Morris, D.J. and Davis, R.P. 1981. The distribution and metabolism of aldosterone. In - Hormones in Normal and Abnormal Tissues. (Ed. Fothersby, K., Pal, S.B., DeGruyter, W.) pp. 71-100.
29. Morris, D.J. 1981. Review: The metabolism and mechanisms of action of aldosterone. Endocrine Reviews 2, 234-237.
30. Latif, S.A., McDermott, M.J., and Morris, D.J. 1981. The role of cytochrome P-450 in the synthesis of polar metabolites of aldosterone by microsomes of male rat liver. Steroids 38, 307-319.
31. Kenyon, C.J., DeConti, G.A., Cupulo, N., and Morris, D.J. 1981. The role of aldosterone in the development of hypertension in spontaneously hypertensive rats (SHR). Endocrinology 109, 1841-1845.
32. Morris, D.J., McDermott, M.J., Latif, S.A., Keating, A., and Kenyon, C.J. 1982. The metabolism of aldosterone in target tissues. J. Steroid Biochem. 15, 473-477.
33. Morris, D.J., and Kenyon, C.J. 1982. Aldosterone and its metabolism in spontaneously hypertensive rats (SHR). Clin. and Exper. Hypertension A4 (9&10), 1613-1626.
34. Greco, R.G., Carroll, J.E., Morris, D.J., Grekin, R.J., and Melby, J.C. 1982. Familial hyperaldosteronism, not suppressed by dexamethasone. J. Clin. Endocrinology Metab. 55, 1013-1016.
35. Morris, D.J., Kenyon, C.J., Latif, S.A. McDermott, M., and Goodfriend, T. 1983. The possible biological significance of aldosterone metabolites. Hypertension (Suppl. I) 135-140.
36. Kenyon, C.J., Brem, A.S., McDermott, M.J., DeConti, G.A., Latif, S.A., and Morris, D.J. 1983. Antinatriuretic and kaliuretic activities of the reduced derivatives of aldosterone. Endocrinology 112, 1825-1856.
37. McDermott, M., Latif, S.A., and Morris, D.J. 1983. The metabolism of aldosterone in kidney. J. Steroid Biochem. 19, 1205-1211.

38. Latif, S.A., McDermott, M.J., and Morris, D.J. 1983. The effects of adrenal and gonadal steroids on the in vitro synthesis of aldosterone metabolites by microsomes and cytosol of male rat liver. Steroids 42(3), 283-297.
39. Kenyon, C.J., Sacoccio, N.A., and Morris, D.J. 1984. Aldosterone effects on water and electrolyte metabolism. J. Endocrinology 100, 93-100.
40. Kenyon, C.J., Saccoccio, N.A., and Morris, D.J. 1984. Glucocorticoids inhibition of mineralocorticoid action. Clin. Sci. 67, 341-347.
41. Harnik, M., Kashman, Y., and Morris, D.J. 1984. Synthesis of 3 α , 5 α -tetrahydro-aldosterone. J. Steroid Biochem. 20, 1313-1320.
42. Kenyon, C.J., Saccoccio, N.A., and Morris, D.J. 1984. Further studies on the mineralocorticoid activity of 19-oxo-deoxycorticosterone. Endocrinology 115, 535-537.
43. Kenyon, C.J. and Morris, D.J. 1984. The effects of thyroidectomy on the mineralocorticoid response to aldosterone in male adrenalectomized rats. Ann. N.Y. Acad. Sci. 435, 164-167.
44. Trachewsky, D., Oakes, M.L.I., and Morris, D.J. 1985. Induction of flavokinase (EC 2.7.1.2.6) by aldosterone in the rat kidney. Endocrinology 116, 879-888.
45. Harnik, M., Kashman, Y., Aharonowitz, and Morris, D.J. 1985. Synthesis of 19-hydroxy-aldosterone and the 3 α -hydroxy-5-ene-analog of aldosterone, active mineralocorticoids. J. Steroid Biochem. 23, 207-218.
46. McDermott, M.J., Freiburger, M., Latif, S.A., and Morris, D.J. 1985. The synthesis of reduced metabolites of aldosterone by subcellular fractions of rat kidney: Effects of antiminerale-corticoids. J. Steroid Biochem. 23, 503-509.
47. Gorsline, J. and Morris, D.J. 1985. The hypertensinogenic activity of 19-nor-deoxycorticosterone in the adrenalectomized spontaneously hypertensive rat. J. Steroid Biochem. 23, 535-536.
48. Morris, D.J., McDermott, M.J., Freiburger, M., Latif, S.A., Pacholski M., and Brem, A. 1986. Effects of antimineralecorticoids of synthesis of aldosterone metabolites in target tissues. J. Steroid Biochem. 24, 341-344.
49. Morris, D.J. 1986. Further studies on aldosterone metabolism. Annals Clin. Lab. Sci. 16, 94-102.

50. Gorsline, J., Harnik, M., Tresco, P., and Morris, D.J. 1986. Hypertensinogenic activities of Ring-A-reduced metabolites of aldosterone. Hypertension **8** (Suppl I), 1187-1190.
51. Morris, D.J., Brem, A.S., Saccoccio, N.A. Pacholski, M., and Harnik, M. 1986. Mineralocorticoid activity of 19-hydroxy-aldosterone, 19-nor-aldosterone and 3 β -hydroxy-5-aldosterone: Relative potencies measured in two bioassay systems. Endocrinology **118**, 2505-2509.
52. Harnik, M., Kashman, Y., Cojocar, M., Rosenthal, T., and Morris, D.J. 1986. Synthesis of 19-nor-aldosterone: A potent mineralocorticoid. J. Steroid Biochem. **24**, 1163-1169.
53. Morris, D.J., Gorsline, J., Tresco, P.A., and Harnik, M. 1987. The hypertensinogenic properties of 19-nor-aldosterone in ADX SHR. Steroids **46**, 1003-1010.
54. Kenyon, C.J., Saccoccio, N.A., Harnik, M., and Morris, D.J. 1986. The effect of long-term infusions of the reduced derivatives of aldosterone on water and electrolyte metabolism. Serono Symposium, Padua, Italy. pp. 209-214.
55. Morris, D.J. and Brem, A.S. 1987. Editorial review: reduced analogues for aldosterone. Amer. J. Physiol. **252**, F365-F373.
56. Latif, S.A., Camara, P., Rosen, M.P., and Morris, D.J. 1987. Enzymatic synthesis of ³H-labelled Ring-A-reduced metabolites of aldosterone and their separation by high pressure liquid chromatography. Steroids **49**, 589-600.
57. Gorsline, J., Latif, S.A., and Morris, D.J. 1988. Changes in 5 α - and 5 β -reductase pathways of aldosterone metabolism by dietary sodium. Am. J. Hypertension **1**, 272-275.
58. Gorsline, J. and Morris, D.J. 1988. Effects of adrenalectomy and spironolactone on urinary metabolites of aldosterone in rats. Steroids **51**, 81-99.
59. Brem, A.S., Pacholski, M., and Morris, D.J. 1988. Time dependent aldosterone metabolism in the toad urinary bladder. Amer. J. Physiol. **254**, F547-F553.
60. Morris, D.J., Souness, G.W, Saccoccio, N.A., and Harnik, M. 1988. The effects of infusions of Ring-A-reduced derivatives of aldosterone on the antinatriuretic and kaliuretic actions of aldosterone. Steroids **53**, 21-26.

61. Gorsline, J., Morris, D.J., and Holmes, W.N. 1988. Metabolism of aldosterone in the colostomized duck (*Anas. Platyrhynchos*): Partial characterization of urinary metabolites. J. Comp. Biochem. Physiol. 92, 773-777.
62. Kirk, D.N., Burke, P.J., Toms, H.C., Latif, S.A., and Morris, D.J. 1989. 18-Substituted steroids - Part 15. 6 β -hydroxylation of aldosterone by rat liver. Steroids 54, 169-184.
63. Kirk, D.N., Miller, B.W., Cooley, G., Latif, S.A., and Morris, D.J. 1989. 18-Substituted steroids - Part 16. Synthesis of 6 β -hydroxy and 6 α -hydroxy-aldosterone and their 17 α -isomers. J. Chem. Res. 6, 1274-1289.
64. Souness, G.W. and Morris, D.J. 1989. The antinatriuretic and kaliuretic effect of the glucocorticoids corticosterone and cortisol following pretreatment with carbenoxolone sodium (a liquorice derivative) in the adrenalectomized rat. Endocrinology 124, 1588-1590.
65. Lewicka, S., Koch, S., Harnik, M., Cojocar, M., Morris, D.J., and Vecsei, P. 1989. Demonstration and quantitative determination of 19-nor-aldosterone in human urine. Serono Symposium: The Adrenal and Hypertension 57, 432-437.
66. Brem, A.S., Matheson, K., Conca, T., and Morris, D.J. 1989. Effect of carbenoxolone on glucocorticoid metabolism and Na transport in toad bladder. Amer. J. Physiol. 257, F700-F704.
67. Latif, S.A., Morris, D.J., Wei, L., Kirk, D.N., Burke, P.J., Toms, H.C., and Shackleton, C.H.L. 1990. 18-Substituted steroids - Part 17. 2 α -hydroxylated liver metabolites of aldosterone identified by high field ¹H NMR spectroscopy. J. Steroid Biochem. 33, 1119-1125.
68. Latif, S., Conca, T., and Morris, D.J. 1990. The effects of glycyrrhetic acid on 5 α - and 5 β -pathways of metabolism of aldosterone. Steroids 55, 52-58.
69. Morris, D.J., Latif, S.A., Conca, T., Watlington, C., Kirk, D.N., and Shackleton, C.H.L. 1990. 6 β -Hydroxylation of aldosterone by the toad kidney A6 cell line. Steroids 55, 482-487.
70. Morris, D.J. and Souness, G.W. 1990. The 11 β -Hydroxysteroid dehydrogenase inhibitor, carbenoxolone, enhances the sodium retaining actions of aldosterone and the 11-deoxygenated mineralocorticoid, deoxycorticosterone. Amer. J. Physiol. 258, F756-F759.
71. Morris, D.J., Davis, E., Latif, S.A. 1990. Liquorice content in chewing tobacco - A potential health hazard. NEJM 322, 849.

72. Semafuko, W.E.B. and Morris, D.J. 1990. Effect of high calcium diet and nitren-dipine on the development of high blood pressure in adrenalectomized spontaneously hypertensive rats treated with aldosterone. J. Human Hypertension 4, 165-167.
73. Semafuko, W.E.B. and Morris, D.J. 1991. Effect of high calcium diet on the development of high blood pressure in intact spontaneously hypertensive rats (SHR) and in adrenalectomized SHR treated with aldosterone. Steroids 56, 131-135.
74. Davis, E.A. and Morris, D.J. 1991. Editorial Review. Medicinal uses of liquorice through the millenia: the good and plenty of it. Mol. & Cell Endocrinology 78, 1-6.
75. Semafuko, W.E.B. and Morris, D.J. 1990. High dietary calcium or nitrendipine attenuates aldosterone hypertension in young adrenalectomized spontaneously hypertensive rats. MEDIDEA S.A Switzerland, 25-26.
76. Souness, W. and Morris, D.J. 1991. The mineralocorticoid-like actions conferred on corticosterone by carbenoxolone are inhibited by the mineralocorticoid receptor (type I) antagonist RU28318. Endocrinology 129, 2451-2456.
77. Brem, A.S., Matheson, K.L., Barnes, J.L. and Morris, D.J. 1991. 11-Dehydrocorti-costerone, a glucocorticoid metabolite, inhibits aldosterone action in toad bladder. Amer. J. Physiol. 261, F873-F879.
78. Weinstein, B.I., Kandalajt, N., Ritch, R., Camras, C.B., Morris, D.J., Latif, S.A., Vecsei, P., Vittek, J., Gordon, G.G., and Southren, A.L. 1991. 5 α -Dihydrocortisol in human aqueous humor and metabolism of cortisol by human lenses in vitro. Invest. Ophthalmol. & Vis. Sci. 32, 2130-2135.
79. Morris, D.J., Latif, S.A., Semafuko, W.E.B., Vogel, B. and Sheff, M.F. 1992. Detection of glycyrrhetic acid, liquorice-like factors (GALF's) in human urine. Hypertension 20, 356-360.
80. Brem, A.S., Matheson, K.L. and Morris, D.J. 1992. Effect of Carbenoxolone sodium on steroid-induced sodium transport in the toad bladder: further studies. J. Steroid Biochem. 42, 911-914.
81. Morris, D.J. 1993. Reduced aldosterone metabolites in hypertension. J. Steroid Biochem. 45, 19-25.

82. Latif, S.A., Semafuko, W.E.B., and Morris, D.J. 1992. Does carbenoxolone (CS) when administered in vivo, inhibit renal handling of corticosterone (B) by 11 β -hydroxysteroid dehydrogenase in adrenalectomized rats. Steroids **57**, 494-501.
83. Morris, D.J. and Souness, G.W. 1992. Editorial Review. Protective and specificity-conferring mechanisms of mineralocorticoid action. Amer. J. Physiol. **263**, F759-F768.
84. Souness, G.W. and Morris, D.J. 1993. 11 β -Dehydrocorticosterone in the presence of carbenoxolone is a more potent sodium retainer than its parent steroid corticosterone. Steroids **58**, 24-28.
85. Morris, D.J. 1993. Pharmacology and physiologic actions of 11 β -OHSD inhibitors. Proceedings of International Congress on Endocrinology. Ch. 114, 496-499.
86. Kirk, D.N., Schroder, M.H., Latif, S.A., Souness, G.W., and Morris, D.J. 1993. 18-Substituted steroids. Part 18. Chemical synthesis and mineralocorticoid activity of 2 α - and 2 β -hydroxy-aldosterone. Steroids **58**, 59-63.
87. Souness, G.W., Myles, K., and Morris, D.J. 1994. Other Physiological considerations of protective mechanisms of mineralocorticoid action. Steroids **49**, 142-147.
88. Morris, D.J. 1993. Liquorice: New insights into mineralocorticoid and glucocorticoid hypertension. R.I. Med. **76**, 251-254.
89. Brem, A.S., Matheson, K.L., Latif, S., and Morris, D.J. 1993. Activity of 11 β -hydroxysteroid dehydrogenase in toad bladder: effects of 11-dehydrocorticosterone. Amer. J. Physiol. **264**, F854-F858.
90. Brem, A.S. and Morris, D.J. 1993. Editorial Review. Interactions between glucocorticoids and mineralocorticoids in the regulation of renal electrolyte transport. Mol. Cell Endocrinol. **97**, 1-5.
91. Semafuko, W.E.B., Sheff, M.F., Grimes, C., Latif, S.A., Sadaniantz, A., Levinson, P., and Morris, D.J. 1993. Inhibitors of 11 β -hydroxysteroid dehydrogenase and 5 β -steroid reductase (GALFs) in urine from patients with congestive heart failure. Annals of Clin. Lab. Sci. **23**, 456-461.
92. Gomez-Sanchez, C.E. and Morris, D.J. 1994. Other Mineralocorticoids and Glucocorticoids. Hypertension Primer. The Essentials of High Blood Pressure, Eds. J.L. Izzo and H.R. Black. American Heart Association, Ch. A11, p. 20-21.

93. Morris, D.J. 1995. Role of steroid metabolism in protective and specificity conferring mechanisms of mineralocorticoid action. Vitamin and Hormones **50**, 461-485.
94. Brem, A.S., Bina, B. Matheson, K.L., Barnes, J.L., and Morris, D.J. 1994. Developmental changes in rat renal 11 β -hydroxysteroid dehydrogenase. Kidney Intl. **45**, 679-683.
95. Latif, S.A., Hartman, M., Souness, G.W., and Morris, D.J. 1994. Possible endogenous regulators of steroid inactivity enzymes and glucocorticoid-induced Na⁺ retention. Steroids **59**, 352-356.
96. Souness, G.W., Latif, S.A., Lorenzo, J. and Morris, D. 1995. 11 α -OH-P and 11 β -OH-P, potent inhibitors of 11 β HSD1 and 2, confer mineralocorticoid activity on corticosterone. Endocrinology **136**, 1809-1812.
97. Brem, A.S. Bina, B., King, T., and Morris, D.J. 1995. Bidirectional activity of 11 β -hydroxysteroid dehydrogenase in vascular smooth muscle cells. Steroids **20**, 406-410.
98. Gorsline, J., Latif, S.A., and Morris, D.J. Effects of dietary sodium intake on the 5 α - and 5 β -pathways of aldosterone metabolism in rats. J. Steroid Biochem. In Preparation.
99. Souness, G.W. and Morris, D.J. 1996. Hydroxyprogesterone, potent inhibitors of 11 β -hydroxysteroid dehydrogenase, possess hypertensinogenic activity in the rat. Hypertension **27**, 421-425.
100. Latif, S.A., Sheff, M.F., Ribeiro, C.E. and Morris, D.J. 1997. 11 β -hydroxysteroid dehydrogenase (11 β -HSD) Isoform 2 from sheep kidney is selectively inhibited by 5 α -metabolites (but not 5 β -metabolites) of adrenal cortex. Steroids **62**, 230-237.
101. Morris, D.J. and Souness, G.W. 1996. Endogenous 11 β -hydroxysteroid dehydrogenase inhibitors and their role in glucocorticoid Na⁺ retention and hypertension. Endocrinology Research. **22**, 793-801.
102. Brem, A.S., Bina, R.B., Hill, N., Alia, C. and Morris, D.J. 1996. Effects of licorice derivatives on vascular smooth muscle function. Life Sciences **60**, 208-214.
103. Brem, A.S., Bina, R.B., King, T., Chobanian, M.C. and Morris, D.J. 1997. Influence of dietary sodium on the renal isoforms of 11 β -Hydroxysteroid Dehydrogenase (11 β -HSD). Proc. Soc. Exper. Biol. and Med. **214**, 340-345.

104. Brem, A.S., Bina, R.B., King, T. and Morris, D.J. 1997. 11 β OH- Progesterone affects vascular glucocorticoids metabolism and contractile response. Hypertension. 30, (I), 449-454.
105. Lo, Y.H., Sheff, M.F., Latif, S.A., Ribeiro, C., Silver, H., and Morris, D.J. 1997. Kidney 11 β -HSD2 is inhibited by glycyrrhetic acid-like factors (GALFs) in human urine. Hypertension 29 (II), 500-505.
106. Franco-Saenz, R., Tokita, Y., Latif, S.A., and Morris, D.J. 1997. 11 β -Hydroxysteroid dehydrogenase in the Dahl rat. Am J Hypertension 10, 1004-1009.
107. Morris, D.J., Latif, S.A., Myles, K., Rokaw, M.D., and Johnson, N.P. 1998. Regulation of MR mediated Na⁺ transport in kidney epithelial A6 cells by 11 β -HSD inhibitors. Am. J. Physiol. 274, 1245-1252.
108. Morris, D.J., Lo, Y.H., Lichtfield, W.R. and Williams, G.W. 1998. Impact of dietary Na⁺ on glycyrrhetic acid-like factors (kidney-11 β -HSD2 GALFs) in human essential hypertension. Hypertension. 31, 469-472.
109. Brem, A.S., Bina R.B., King, T.C. and Morris, D.J. 1998. Localization of 2 11 β -OH-Steroid dehydrogenase isoforms in aortic endothelial cells. Hypertension. 31, 459-462.
110. Morris, D.J. , and Watlington, C.O. Mineralocorticoid Receptors and Actions. 1999. *AHA Hypertension Primer*, 2nd Edition, P 25.
111. Morris, D.J, Souness, G.W, Brem, A.S, and Oblin, M-E. 2000. Interactions of Mineralocorticoids and Glucocorticoids in Epithelial Target Tissues. Kidney International, 57, 1370-1373.
112. Souness, G.W, Brem, A.S, and Morris, D.J. 2002. 11 β -HSD Antisense Affects Vascular Contractile Response and Glucocorticoid Metabolism. Steroids 67, 195-201.
113. Wang, G.-M, Ge, R-S, Latif,S.A, Morris, D.J, and Hardy, M.P. 2002. Leydig cells express 11 β -hydroxylase message and 11 β -hydroxylated androgens inhibit 11 β -HSD1 enzymatic activity. Endocrinology. 143, 621-626.
114. Morris, D.J. and Brem, A.S. 2003. Mineralocorticoids and Hypertension in *Encyclopedia of Hormones*, Ed. by Henry, H.L. and Norman, A.W., Academic Press. Vol 2.
115. Morris, D.J., Brem, A.S., Ge, R., Jellinck, P.H., Sakai, R.R. and Hardy, M.P. 2003. At the Cutting Edge. The functional roles of 11 β -HSD1: vascular tissue, testis and brain. Mol.Cell. Endocrinol. 203, 1-12.

116. Morris, D. J., Souness, G.W, Hardy, M.P., Latif, S.A, and Brem, A.S. 2004. Effect of Chenodeoxycholic Acid on 11 β -OH-Steroid dehydrogenase in Various Target Tissues. Metabolism. 53, 811-816.
117. Morris, D.J, Latif, S.A, Lo, Y.H, Lichtfield, W.R. and Williams, G.W. 2003. Correlation of Levels of glycyrrhetic acid-like factors (kidney-11 β -HSD2 GALFs) with Urinary Free Cortisol and Plasma Renin Levels in human essential hypertension. Hypertension. Manuscript in preparation.
118. Morris, D.J, and Smeal, S. 2004. Total Laboratory Automation: Taking it from dream to reality. AACC. Clinical Lab. News. Vol 30, December.
119. Ge, R-S, Dong, Q, Niu, E-M, Sottas, Hardy, D.O, Catterall, J.F, Latif, S.A, Morris, D.J, and Hardy, M.P. 2005. 11 β -OH-Steroid dehydrogenase 2 in rat Leydig cells: its role in blunting glucocorticoid action at physiological levels of substrate. Endocrinology. 146, 2657-2664.
120. Ge, R-S, Dong, Q, Sottas, C.H, Latif, S.A, Morris, D.J, and Hardy, M.P. 2005. Stimulation of testosterone production in Leydig cells by aldosterone is mineralocorticoid receptor mediated. Mol.Cell. Endocrinol. 243, 35-42.
121. Latif, S.A, Pardo, H.A, Hardy, M.P, and Morris, D.J. 2005. Endogenous selective inhibitors of 11 β -OH-Steroid dehydrogenase isoforms 1 and 2 of adrenal origin. Mol.Cell. Endocrinol. 243, 43-50.
122. Morris, D.J, and Smeal, S. 2005. Benefits of laboratory automation: safety and accuracy. Medicine and Health/ Rhode Island. 88, 220-223.