Zvi Naor , Ph.D. **October 2014**

LIST OF PUBLICATIONS

A. Books

1. "Hormonal Control of Hypothalamo Pituitary Gonadal Axis", K.W. McKerns, Z. Naor (eds.), Plenum Press, N.Y., 1984.

2. "Advances in Prostaglandin, Thromboxane and Leukotriene Research", U. Zor, Z. Naor and F. Kohen (eds.), Raven Press, 1986.

3."Hormonal Regulation of Reproductive Functions" (Hebrew, The Israel Ministry of Defense Publishing House, "MOD" Books), 1988.

4. "Leukotrienes and Prostanoids in Health and Disease", U. Zor, Z. Naor and A. Danon (eds.), Karger, 1989.

5. “The Sexual Brain” (Hebrew, The Israel Ministry of Defense Publishing House, "MOD" Books), 1998.

6. “The Chemistry of Love” (Hebrew. Yediot Sfarim Pub House 2010)

B. Chapters in Encyclopaedia

1. Naor, Z. “Molecular Endocrinology”, Hebrew Encyclopaedia.

2. Moshonov, S., Zor, U., and Naor, Z. Prostaglandins. In “Encyclopaedia of Stress”, Academic Press, Vol 3, pp266-273 (2000).

3. Moshonov, S., Zor, U., and Naor, Z. Prostaglandins. In “Encyclopaedia of StressII”, Academic Press Vol 4 (in press).

4. Naor, Z. and Seger, R. Gonadotropin releasing hormone. In "Cancer Enzyclopedia" 2nd, 3nd and 4nd Edition, Springer.

C. Guest Editor

1. Guest Editor, Molecular and Cellular Endocrinology Volume 252, issues 1-2, 2006

2. Guest Editor, Molecular and Cellular Endocrinology Volume 282, 2008

3. Guest Editor, Molecular and Cellular Endocrinology Volume 314, issue 2, 2010

D. Articles

M.Sc Articles

1. Beitner, R. and Naor, Z. Intracellular distribution of isoenzymes of glucose-6-phosphate dehydrogenase and 6- phosphogluconate dehydrogenase in rat adipose tissue. Biochem. Biophys. Acta 268: 761-765 (1972).
2. Beitner, R. and Naor, Z. Isoenzymes of NADP+- and NAD+-glucose-6-phosphate dehydrogenase and 6- phosphogluconate dehydrogenase in rat adipose tissue. Biochem. Biophys. Acta 276: 572-575 (1972).

3. Beitner, R. and Naor, Z. The effect of adenine nucleotides and dehydroepiandrosterone on the isoenzymes of NADP+- and NAD+-glucose-6-phosphate dehydrogenase and 6-phosphogluconate dehydrogenase from rat adipose tissue. Biochem. Biophys. Acta 286:437-440 (1972).

PhD Articles

4. Chobsieng, P., Naor, Z., Koch, Y., Zor, U. and Lindner, H.R. Stimulatory effect of prostaglandin E on LH release in the rat: Evidence for hypothalamic site of action. Neuroendocrinology 17: 12-17 (1975).
5. Naor, Z., Koch, Y., Bauminger, S. and Zor, U. Action of luteinizing-hormone-releasing hormone and synthesis of prostaglandin in the pituitary gland. Prostaglandins 9: 211-219 (1975).
6. Naor, Z., Koch, Y., Chobsieng, P. and Zor. U. Pituitary cyclic AMP production and mechanism of luteinizing hormone release. FEBS Letters 58: 318-321 (1975).
7. Zor, U., Koch, R. and Naor, Z. Differential effects of prostaglandin synthetase inhibitors on prostaglandin E binding and on prostaglandin or cholera toxin induced cyclic AMP accumulation in the rabbit uterus. In: "Advances in Prostaglandin and Thromboxane Research" (B. Samuelson and R. Paoletti, eds.) Vol. 1, pp. 331-335 (1976).
8. Naor, Z., Koch, R. and Zor, U. Differential effects of prostaglandin synthetase inhibitors on phosphodiesterase activity and choleragen induced cyclic AMP production in rabbit uterus. Israel J. Med. Sci. 12: 1467-1470 (1976).
9. Ayalon, D., Nir, I., Cordova, T., Bauminger, S., Puder, M., Naor, Z., Kashi, R., Zor, U., Harell, A. and Lindner, H.R. Acute effect of -tetrahydrocannibinol on the hypothalamo-pituitary-ovarian axis in the rat. Neuroendocrinology 23: 31-42 (1977).
10. Koch, Y., Meidan, R., Chobsieng, P. and Naor, Z. An improved in vitro model for the study of gonadotropin secretion from immature rat pituitaries. J. Reprod. Fertil. 50: 347-348 (1977).
11. Naor, Z., Zor, U., Meidan, R. and Koch, Y. Sex difference in pituitary cyclic AMP response to gonadotropin-releasing hormone. Amer. J. Physiol. 235: 37-41 (1978).

Post doctorate Studies in UTHSCD

12. Ojeda, S.R., Naor, Z. and McCann, S.M. Prostaglandin E levels in hypothalamus, median eminence and anterior pituitary of rats of both sexes. Brain Res. 149: 274-277 (1978).
13. Naor, Z., Fawcett, C.P. and McCann, S.M. Involvement of cGMP in LHRH-stimulated gonadotropin release. Amer. J. Physiol. 235: 586-590 (1978).
14. Naor, Z., Snyder, G., Fawcett, C.P. and McCann, S.M. A possible role for cyclic GMP in mediating the effect of luteinizing hormone releasing hormone on gonadotropin release in dispersed pituitary cells of the female rat. J. Cyclic Nucl. Res. 4: 475-486 (1978).
15. Ojeda, S.R., Naor, Z. and Negro-Vilar, A. The role of prostaglandins in the control of gonadotropin and prolactin release. Prostaglandins, Leukotrienes and Medicine 5: 249-275 (1979).
16. Naor, Z., Ojeda, S.R., Negro-Vilar, A. and McCann, S.M. Cyclic GMP and cyclic AMP levels in median eminence, hypothalamus and pituitary gland of the rat after decapitation or microwave irradiation. Neurosciences Lett. 13: 189-194 (1979).
17. Naor, Z., Fawcett, C.P. and McCann, S.M. Differential effects of castration and testosterone replacement on basal and LHRH stimulated cAMP and cGMP accumulation and on gonadotropin release from the pituitary of the male rat. Mol. Cell Endocrinol. 14: 191-198 (1979).
18. Naor, Z., Snyder, G., Fawcett, C.P. and McCann, S.M. Pituitary cyclic nucleotides and thyrotropin-releasing hormone action: The relationship of adenosine 3'5'-monophosphate and guanosine 3'5'-monophosphate to the release of thyrotropin and prolactin. Endocrinology 106: 1304-1310 (1980).
19. Snyder, G., Naor, Z., Fawcett, C.P. and McCann, S.M. Gonadotropin release and cyclic nucleotides: Evidence for luteinizing hormone- releasing hormone elevation of cyclic guanosine 3'5'-monophosphate levels in gonadotrophs. Endocrinology 107: 1627-1633 (1980).

Post doctorate Studies in NIH

20. Naor*, Z., and Catt, K.J. Independent actions of gonadotropin-releasing hormone upon cyclic guanosine 3'5'-monophosphate production and luteinizing hormone release. J. Biol. Chem. 255: 342-344 (1980).
21. Naor*, Z., Clayton, R.N. and Catt, K.J. Characterization of gonadotropin-releasing hormone receptors in cultured rat pituitary cells. Endocrinology 107: 1144-1152 (1980).
22. Naor, Z., Leifer, A.M. and Catt, K.J. Calcium-dependent actions of gonadotropin-releasing hormone on pituitary guanosine 3'5'-monophosphate production and gonadotropin release. Endocrinology 107: 1438-1445 (1980).
23. Naor, Z. and Catt, K.J. Mechanism of action of gonadotropin-releasing hormone: Involvement of phospholipid turnover in luteinizing hormone release. J. Biol. Chem. 256: 2226-2229 (1981).
24. Naor, Z., Atlas, D., Clayton, R.N., Forman, D.S., Amsterdam, A. and Catt, K.J. Interaction of fluorescent gonadotropin-releasing hormone with receptors in cultured pituitary cells. J. Biol. Chem. 256: 3049-3052 (1981).
25. Snyder, G., Naor, Z., Fawcett, C.P. and McCann, S.M. Action of thyrotropin-releasing hormone on mammotrophs and thyrotrophs. Amer. J. Physiol. 241: E298-E304 (1981).

Articles in Israel (WIZ and TAU)

26. Koch, Y., Meidan R., Naor, Z. and Zor, U. Studies on the mechanism of action of luteinizing hormone-releasing hormone. In: "Neuropeptides, Biochemical and Physiological Studies" (R.P. Millar, ed.) Churchill Livingstone, pp. 181-189 (1981).
27. Amsterdam, A., Naor, Z., Knecht, M., Dufau, M.L. and Catt, K.J. Hormone action and receptor redistribution in endocrine target cells: gonadotropins and gonadotropin releasing hormone. In: "Receptor Mediated Binding and Internalization of Toxins and Hormones" (J.L. Middlebrook and L. Kohn, eds.) Academic Press, pp. 283-310 (1981).
28. Naor, Z., Childs, G.V., Leifer, A.M., Clayton, R.N., Amsterdam, A. and Catt, K.J. Gonadotropin releasing hormone binding and activation of enriched population of pituitary gonadotrophs. Mol. Cell. Endocrinol. 25: 85-97 (1982).
29. Naor, Z., Katikineni, M., Loumaye, E., Garcia Vella, A., Dufau, M.L. and Catt, K.J. Compartmentalization of luteinizing hormone pools:Dynamics of gonadotropin releasing hormone action in superfused pituitary cells. Mol. Cell. Endocrinol. 27: 213-220 (1982).
30. Hyde, C.L., Childs (Moriaty), G., Wahl, L.M., Naor, Z. and Catt, K.J. Preparation of gonadotroph **enriched cell population from adult rat anterior pituitary cells by centrifugal elutriation. Endocrinology 111: 1421-1423 (1982).**
31. Naor, Z. and Yavin, E. Gonadotropin releasing hormone stimulates phospholipid labeling in cultured granulosa cells. Endocrinology 111: 1615-1619 (1982).
32. Loumaye, E., Naor, Z. and Catt, K.J. Binding affinity and biological activity of gonadotropin releasing hormone agonists in isolated pituitary cells. Endocrinology 111: 730-736 (1982).
33. Naor, Z., Cyclic nucleotide production and hormonal control of anterior pituitary cells. In INSERM "Multihormonal Regulation in Neuroendocrine Cells" (A. Tixier-Vidal and P. Richard, eds.) Vol. 110: 395-418 (1982).
34. Naor, Z., Vanderhoek, J.Y., Lindner, H.R. and Catt, K.J. Arachidonic acid products as possible mediators of the action of gonadotropin releasing hormone. In "Advances in Prostaglandins Thromboxane and Leukotriene Research" (B. Samuelsson, R. Paoletti and P. Ramwell, eds.) Raven Press, Vol. 12: 259-263 (1983).
35. Naor, Z. and Yavin, E. Gonadotropin releasing hormone stimulates phospholipid labeling in cultured granulosa cells. Obstetrics and Gynecology Survey 38: 289-291 (1983).
36. Catt, K.J., Loumaye, E., Katikineni, M., Hyde, C.L., Childs, G., Amsterdam, A. and Naor, Z. Receptors and actions of gonadotropin-releasing hormone (GnRH) on pituitary gonadotrophs. In: "Role of Peptides and Proteins in Control of Reproduction" (S.M. McCann and D.S. Dhindsa, eds.) Elsevier Press, pp. 33-61 (1983).

37. Knecht, M., Ranta, T., Naor, Z. and Catt, K.J. Direct effect of GnRH on the ovary. In: "Factors Regulating Ovarian Functions" (G.S. Greenwald and P.F. Terranova, eds.) Raven Press, pp. 225-243 (1983).

38. Naor, Z., Molcho, J., Zilberstein, M., Zakut, H. and Catt, K.J. Actions of GnRH at the pituitary and gonadal levels. In: "Proceedings of the 13th International Congress of Chemotherapy" (K.H. Spitzy and K. Karrer, eds.) Verlag, Vienna, Austria, Vol. 10: 501-504 (1983).

39. Zilberstein, M., Zakut, H. and Naor, Z. Coincidence of down-regulation and desensitization in pituitary gonadotrophs stimulated by gonadotropin-releasing hormone. Life Sci. 32: 663-669 (1983).

40. Dekel, N., Sherizly, I., Tsafriri, A. and Naor, Z. A comparative study of the mechanism of action **of luteinizing hormone and a gonadotropin releasing hormone analog on the ovary. Biol. Reprod. 28: 161-166 (1983).**

41. Naor, Z., Zilberstein, M., Zakut, H., Lindner, H.R. and Dekel, N. Dissociation between the direct stimulatory and inhibitory effects of a gonadotropin-releasing hormone analog on ovarian functions. Mol. Cell. Endocrin. 31: 261-270 (1983).

42. Childs, G.V., Hyde, C., Naor, Z. and Catt, K.J. Heterogeneous luteinizing hormone and follicle-stimulating hormone storage patterns in subtypes of gonadotropes separated by centrifugal elutriation. Endocrinology 113: 2120-2128 (1983).

43. Hapgood, J., Libermann, T.A., Lax, I., Yarden, Y., Schreiber, A.B., Naor, Z. and Schlessinger, J. Monoclonal antibodies against EGF- receptor induce prolactin synthesis in cultured rat pituitary cells (GH_3). Proc. Natl. Acad. Sci. (U.S.A.) 80: 6451-6455 (1983).

44. Childs, G.V., Hyde, C. and Naor, Z. Morphometric analysis of tyrotrophes in developing and cycling female rats: Studies of intact pituitaries and cell fractions separated by centrifugal elutriation. Endocrinology 113: 1601-1607 (1983).

4**5**. Childs, G.V., Naor, Z., Hazum, E., Tibolt, R., Westlund, K.N. and Hancock, M.B. Localization of biotinylated gonadotropin releasing hormone on pituitary monolayer cells with Avidin-Biotin-peroxidase complexes. J. Histochem. Cytochem. 31: 1422-1425 (1983).

46. Childs (Moriarty), G.V., Naor, Z., Hazum, E., Tibolt, R., Westlund, K.N. and Hancock, M.B. Cytochemical characterization of pituitary target cells for Biotinylated gonadotropin releasing hormone. Peptides 4: 549-555 (1983).

47. Reich, R., Kohen, F., Naor, Z. and Tsafriri, A. Possible involvement of lipoxygenase products of arachidonic acid pathway in ovulation. Prostaglandins 26: 1011-1020 (1983).

48. Naor, Z., Amsterdam, A. and Catt, K.J. Binding and activation of gonadotropin-releasing hormone receptors in pituitary gonadotrophs. In: Hormone Receptors in Growth and Reproduction" (B.B. Saxena, K.J. Catt, L. Birnbaumer and L. Martini, Eds) Raven Press, Serono, Vol. 9, 1-19 (1984).

49. Naor, Z. Phospholipid turnover in target cells in relation to the response to gonadotropin releasing hormone. In: "Regulation of Target Cell Responsiveness" (K.W. McKerns, A. Aakvaag, V. Hansson, eds.) Plenum, vol. 2: 101-126 (1984).

50. Naor, Z., Dekel, N., Molcho, J., Eli, Y., Zilberstein, M. and Zakut, H. Phospholipid turnover as a mode of gonadotropin-releasing hormone action in the ovary. In: "Secretion and Action of Gonadotropins, Physiology and Clinic", (B. Runnebaum, T. Rabe, L. Kiesel and W.E. Merz, eds.) Springer-Verlag, **Berlin, pp. 83-94 (1984).**

51. Naor, Z., Molcho, Z., Zilberstein, M. and Zakut, H. Phospholipid turnover in gonadotropin releasing hormone target cells: Comparative studies. In "Hormonal Control of the Hypothalamo-Pituitary-Gonadal Axis". (K.W. McKerns, Z. Naor, eds.) Plenum Press, pp. 493-508 (1984).

52. Naor, Z., Molcho, J., Hermon, J., Zilberstein, M., Zakut, H. and Dekel, N. Phospholipid turnover and GnRH action in the pituitary and gonads. In: LHRH and its Analogues". (F. Labrie, A. Belanger and A. Dupont, eds.) Excerpta Medica (Amsterdam), pp. 245-260 (1984).

53. Childs, G.V., Hyde, C., Naor, Z. and Catt, K.J. Heterogeneous luteinizing hormone and follicle **stimulating hormone storage patterns in subtypes of gonadotropes separated by centrifugal elutriation. Obstetrics and Gynecology Survey, Vol. 39: 640-643 (1984).**

54. Naor, Z., Zilberstein, M., Zakut, H. and Dekel, N. Gonadotropin releasing hormone: Regulation of phospholipid turnover and prostaglandin production in ovarian granulosa cells. Life Science 35: 389-398 (1984).

55. Zilberstein, M., Zakut, H., Eli, Y. and Naor, Z. Regulation of prostaglandin E, progesterone and cyclic adenosine monophosphate production in ovarian granulosa cells by luteinizing hormone and gonadotropin releasing hormone agonists: Comparative studies. Endocrinology 114: 2374-2381 (1984).
56. Molcho, J., Zakut, H. and Naor, Z. Gonadotropin releasing hormone stimulates phosphatidylinositol labeling and prostaglandin E production in Leydig cells. Endocrinology 114:1048-1050 (1984).
57. Molcho, J., Eli, Y., Zakut, H. and Naor, Z. Stimulation of prostaglandin E and testosterone production in rat interstitial cells by gonadotropin releasing hormone agonist. Endocrinology 114: 2382-2387 (1984).
58. Vanderhoek, J.Y., Kiesel, L., Naor, Z., Bailey, J.M. and Catt, K.J. Arachidonic acid metabolism in gonadotroph-enriched pituitary cells. Prostag. Leukotriene Med. 15: 375-385 (1984).
59. Raeside, J.I., Robinson, D.J. and Naor, Z. Effects of gonadotropin-releasing hormone on testosterone secretion by fetal and neonatal rat testes in vitro. Mol. Cell. Endocrinol. 37: 191-196 (1984).
60. Naor, Z., Molcho, J., Hermon, J., Zer, J., Zilberstein, M. and Zakut, H. Mechanism of action of gonadotropin releasing hormone (GnRH) in the pituitary and gonads. In "Future aspects in Contraception" (B. Runnebaum, T. Rabe and L. Kiesel, eds.) MTP Press, pp. 189-201 (1985).
61. Naor, Z. amd Hermon, J. Calcium-activated phospholipid dependent protein kinase: A novel signal transduction mechanism in the pituitary. In: "Neuroendocrine Correlates of Stress" (K.W. McKerns, D. Kanazir and V. Pantic, eds.), Plenum Press, pp. 325-336 (1985).
62. Naor, Z. Phospholipid turnover and gonadotropin releasing hormone action in the pituitary. In "Reviews in Basic and Clinical Pharmacology", Vol. 55: 25s--32s (1985).
63. Naor, Z., Kiesel, L., Vanderhoek, J.Y. and Catt, K.J. Mechanism of action of gonadotropin releasing hormone: Role of lipoxygenase products of arachidonic acid in luteinizing hormone release. J. Steroid. Biochem. 23:711-717 (1985).
64. Naor, Z., Molcho, J., Zakut, H. and Yavin, E. Calcium-independent phosphatidylinositol response in gonadotropin- releasing hormone stimulated pituitary cells. Biochem. J. 231:19-23 (1985).
65. Eckstein, N., Vagman, I., Eshel, A., Naor, Z. and Ayalon, D. Induction of ovulation in amenorrheic patients with gonadotropin releasing hormone and human menopausal gonadotropin. Fertil. Steril. 44:744-750 (1985).
66. Dekel, N., Sherizly, I., Phillips, D.M., Nimrod, A., Zilberstein, M. and Naor, Z. Characterization of the maturational changes induced by a GnRH analogue in the rat ovarian follicle. J. Reprod. Fertil. 75:461-466 (1985).
67. Naor, Z., Zer, J., Zakut, H. and Hermon, J. Characterization of pituitary calcium-activated phospholipid-dependent protein kinase: redistribution by gonadotropin releasing hormone. Proc. Natl. Acad. Sci. 82:8203-8207 (1985).
68. Naor, Z. and Eli, Y. Synergistic stimulation of luteinizing hormone (LH) release by protein kinase C activators and Ca^{2+}-ionophore. Biochem. Biophys. Res. Commun. 130:848-853 (1985).
69. Naor, Z. and Childs, G.V. Binding and activation of gonadotropin releasing hormone receptors in pituitary and gonadal cells. International Review of Cytology, Vol. 103: 147-187 (1986).
70. Naor, Z., Limor, R. and Hermon, J. Phospholipid turnover, Ca^{2+} mobilization and protein kinase C activation in GnRH action on pituitary gonadotrophs. In: "Neuroendocrine Molecular Biology", (G. Fink, A.J. Harmar and K.W. McKerns, eds.), Plenum Press, pp. 113-123 (1986).
71. Naor, Z. Phosphoinositide turnover, Ca^{2+} mobilization, protein kinase C activation and leukotriene action in pituitary signal transduction: Effect of gonadotropin releasing hormone. In: "Advances in Prostaglandin, Thromboxane and Leukotriene Research" (U. Zor, F. Kohen and Z. Naor, eds.) Raven Press, Vol. 16, pp. 225-234 (1986).
72. Sabato, S., Moshonov, S., Zor, U., Floman, Y. and Naor, Z. Lipoxygenase inhibitor and colchicine as anti-arthritic agents in the rat. Prostag. Leukotriene Med. 23:95-102 (1986).
73. Eckstein, N., Eshel, A., Eli, Y., Ayalon, D. and Naor, Z. Calcium- dependent actions of luteinizing hormone and gonadotropin releasing hormone agonist upon cyclic AMP and progesterone production in ovarian granulosa cells. Mol. Cell. Endocrinol. 47:91-98 (1986).
74. Childs, G.V., Hazum, E., Amsterdam, A. and Naor, Z. Cytochemical evidence for different routes of gonadotropin releasing hormone processing by large gonadotropes and granulosa cells. Endocrinology 119:1329-1338 (1986).

75. Huhtaniemi, I.T., Nevo, N., Amsterdam, A. and Naor, Z. Effect of postnatal treatment with a gonadotropin releasing hormone antagonist on sexual maturation of male rats. Biol. Reprod. 35:501-508 (1986).

76. Naor, Z., Azrad, A., Limor, R., Zakut, H. and Lotan, M. Gonadotropin releasing hormone activates a rapid Ca^{2+}-independent phosphodiester hydrolysis of polyphosphoinositides in pituitary gonadotrophs. J. Biol. Chem. 261:12506-12512 (1986).

77. Hermon, J., Reiss, N. and Naor, Z. Phospholipid-dependent Ca^{2+} activated protein kinase (C-kinase) in the pituitary: Further characterization and endogenous redistribution Mol. Cell. Endocrinol. 47:201-208 (1986).

78. Naor, Z. Phosphoinositide turnover and arachidonic acid active metabolites in gonadotropin releasing hormone action on pituitary gonadtropin release. In: "Advances in Prostaglandin, Thromboxane and Leukotriene Research", Raven Press, Vol. 17, pp. 696-700 (1987).

79. Naor, Z. Phosphoinositide turnover, Ca^{2+} mobilization and protein kinase C activation in GnRH action on pituitary gonadotropin release. In: "Endocrinology and Physiology of Reproduction" (P.C.K. Leung, D.T. Armstrong, K.B. Ruf, W.H. Moger and H.G. Friesen, eds.), Plenum Press, pp. 155-162 (1987).

80. Nikula, H., Naor, Z., Parvinen, M. and Huhtaniemi, I. Distribution and activation of protein kinase C in the rat testis tissue. Mol. Cell. Endocrinol. 49: 39-49 (1987).

81. Limor, R., Ayalon, D., Capponi, A.M., Childs, G.V. and Naor, Z. Cytosolic free calcium levels in cultured pituitary cells separated by centrifugal elutriation: Effect of gonadotropin releasing hormone. Endocrinology 120: 497-503 (1987).

82. Naor, Z., Schvartz, I., Hazum, E. and Azrad, A. Effect of phorbol ester on stimulus-secretion coupling mechanisms in gonadotropin releasing hormone-stimulated pituitary gonadotrophs. Biochem. Biophys. Res. Commun 148: 1312- 1322 (1987).

83. Smith, C.E., Wakefield, I., King, J.A., Naor, Z., Millar, R.P. and Davidson, J.S. The initial phase of GnRH-stimulated LH release from pituitary cells is independent of calcium entry through voltage-gated channels. FEBS Lett. 225: 247-250 (1987).

84. Shearman, M.S., Naor, Z., Kikkawa, U. and Nishizuka, Y. Differential expression of multiple protein Kinase C subspecies in rat central nervous tissue. Biochem. Biophys. Res. Commun. 147: 911-919 (1987).

85. Naor, Z. and Nishizuka, Y. Characterization of protein Kinase C subspecies in the hypothalamus: Ca^{2+}-independent activation of type I by fatty acid. In: Calcium Signal and Cell Response (K. Yagi and T. Miyazaki, eds.) Japan Scientific Societies Press, Springer-Verlag, Tokyo, pp. 289-292 (1988).

86. Kikkawa, U., Ogita, K., Shearman, M.S., Ase, K., Sekiguchi, K., Naor,, Z., Ido, M., Nishizuka, Y., Saito, N., Tanaka, C., Ono, Y., Fujii, T. and Igarashi, K. The heterogeneity and differential expression of protein Kinase C in nervous tissues. Phil. Trans. Roy. Soc., Vol. 320: 313-324 (1988).

87. Kikkawa, U., Ogita, K., Shearman, M.S., Ase, K., Sekiguchi, K., Naor, Z., Kishimoto, A., Ido, M., Nishizuka, Y., Saito, N., Tanaka, C., Ono, Y., Fujii, T. and Igarashi, K. The family of protein kinase C: its molecular heterogeneity and differential expression. In: Cold Spring Harbor Symposia on Quantitative Biology, Vol. LIII, 97-102 (1988).

88. Naor, Z., Capponi,, A.M., Rossier, M.F., Ayalon, D. and Limor, R. Gonadotropin releasing hormone-induced rise in cytosolic free Ca^{2+} levels: mobilization of cellular and extra cellular Ca^{2+} pools and relationship to gonadotropin secretion. Mol. Endo. 2: 512-520 (1988).

89. Naor, Z., Shearman, M.S., Kishimoto, A. and Nishizuka, Y. Calcium-independent activation of hypothalamic type I protein Kinase C by cis-unsaturated fatty acids. Mol. Endo. 2: 1043-1048 (1988).

90. Naor, Z. Mechanism of action of gonadotropin releasing hormone on pituitary gonadotropin secretion: Role of phosphoinositide turnover. In: Neurochemical aspects of phospholipid metabolism (L. Freysz, J.N. Hawthorne and G. Toffano,, eds.) Fidia Research Series, Liviana Press, vol. 20, pp. 117-126 (1989).

91. Naor, Z., Dan-Cohen, H., Hermon, J. and Limor, R. Mechanism of action of gonadotropin-releasing hormone on pituitary gonadotropin secretion. J. Reprod. Fertil. 37: 295-300 (1989).

92. Shearman, M.S., Naor, Z., Sekiguchi, K., Kishimoto, A. and Nishizuka, Y. Selective activation of the _-subspecies of protein Kinase C from bovine cerebellum by arachidonic acid and its lipoxygenase metabolites. FEBS Lett. 243: 177-182 (1989).
93. Limor, R., Schvartz, I., Hazum, E., Ayalon, D. and Naor, Z. Effect of guanine nucleotides as stimulus secretion coupling mechanism in permeabilized pituitary cells: Relationship to gonadotropin releasing hormone action. Biochem. Biophys. Res. Commun.. 159: 209-215 (1989).
94. Naor, Z., Dan-Cohen, H., Hermon, J. and Limor, R. Induction of exocytosis in permeabilized pituitary cells by α- and ß-type protein Kinase C. Proc. Natl. Acad. Sci. USA 86: 4501-4504 (1989).
95. Sigmund, O., Naor, Z., Anderson, D.J. and Stein, R. Effect of nerve growth factor and fibroblast growth factor on SCG10 and c-fos expression and neurite outgrowth in protein kinase C depleted PC12 cells. J. Biol. Chem. 265: 2257-2261 (1990).
96. Dan-Cohen, H. and Naor, Z. Mechanism of action of gonadotropin releasing hormone upon gonadotropin secretion. Involvement of protein kinase C as revealed by staurosporine inhibition and enzyme depletion. Mol. Cell. Endocrinol. 69: 135-144 (1990).
97. Naor, Z. Further characterization of protein Kinase C subspecies in the hypothalamo-pituitary axis: Differential activation by phorbol ester. Endocrinology 126: 1521-1526 (1990).
98. Naor, Z. Cyclic GMP stimulates Inositol phosphate production in cultured pituitary cells: Possible implication to signal transduction. Biochem. Biophys. Res. Commun. 167: 982-992 (1990).
99. Lotan, I., Dascal, N., Naor, Z. and Boton, R. Modulation of vertebrate brain Na^+ and K^+ channels by subtypes of protein Kinase C. FEBS Lett. 267: 25-28 (1990).
100. Rotem, R., Paz, G.F., Homonnai, Z.T., Kalina, M. and Naor, Z. Protein Kinase C is present in human sperm: possible role in flagellar motility. Proc. Natl. Acad. Sci. USA 87: 7305-7308 (1990).
101. Rotem, R., Paz, G.F., Homonnai, Z.T., Kalina, M. and Naor, Z. Further studies on the involvement of protein Kinase C in human flagellar motility. Endocrinology 127: 2571-2577 (1990).
102. Naor, Z. Signal transduction mechanisms of Ca^{2+} mobilizing ligands: The case of GnRH. Endocrine Reviews 11: 326-353 (1990).
103. Ben-Menahem, D., Dan-Cohen, H. and Naor, Z. Mechanism of action of gonadotropin releasing hormone: Interaction of Ca^{2+} and protein kinase C. Isr. J. Obstet. Gynecol. 1: 49-59 (1990).
104. Dan-Cohen, H., Ben-Menahem, D. and Naor, Z. The gonadotropin-releasing hormone receptor: Signals involved in gonadotropin secretion and biosynthesis. Horm. Res. 32: 76-86 (1990).
105. Zor, U., Her, E., Harell, T., Fischer, G., Naor, Z., Braquet, P., Ferber, E. and Reiss, N. Arachidonic acid release by basophilic leukemia cells and macrophages stimulated by Ca^{2+} ionophores, antigen and diacylglycerol: Essential role for protein Kinase C and prevention by glucocorticosteroids. Biochim. Biophys. Acta 1091: 385-392 (1990).
106. Garcia-Navarro, S., Kalina, M. and Naor, Z. Immunocytochemical Localization of Protein Kinase C Subtypes in Anterior Pituitary Cells: Colocalization in Hormone-Containing Cells Reveals Heterogeneity. Endocrinology 129: 2780-2786 (1991).
107. Naor, Z. Is Arachidonic acid a second messenger in signal transduction? Mol. Cell. Endocrinol. 80: 181-186 (1991).
108. Ben-Shlomo, H. and Naor, Z. Preferential release of catecholamines from permeabilized PC12 cells by α- and ß-type protein kinase C subspecies. Biochem. J. 280: 65-69 (1991).
109. Netiv, E., Liscovitch, M. and Naor, Z. Delayed activation of phospholipase D by gonadotropin releasing hormone in a clonal pituitary gonadotrope cell line (_T3-1) FEBS Lett. 295: 107-109 (1991).
110. Naor, Z. Characterization of protein Kinase C subspecies in the hypothalamo-pituitary axis. In: Molecular and Clinical Advances in Pituitary Disorders (S. Melmed, R.J. Robbins, eds.) Blackwell Scientific Publications, pp. 141-152 (1991).
111. Kiesel, L., Przylipiak, A., Naor, Z., Przylipiak, M. and Runnebaum, B. Dual action of leukotrienes on luteinizing hormone release. In: Advances in the study of GnRH Analogues (B. Lunenfeld, ed.) Parthenon, Vol. 2, pp. 73-76 (1992).
112. Przylipiak, A., Kiesel, L., Naor, Z., Przylipiak, M. and Runnebaum, B. GnRH-induced luteinizing hormone release is inhibited by leukotriene antagonists. In:Advances in the study of GnRH Analogues (B. Lunenfeld, ed.) Parthenon, Vol. 2, pp. 99-102 (1992).

113. Naor, Z. and Ben-Menahem, D. Mechanism of action of gonadotropin releasing hormone and its analogues upon gonadotropin secretion. In: GnRH analogues in Gynecological Oncology (G. Emons, R. Ghraf, K.-D. Schulz, eds.) Hansischer Medizinischer Verlag, Hamburg, pp. 11-21 (1992).
114. Breitbart, H., Lax, J., Rotem, R. and Naor, Z. Role of protein kinase C in the acrosome reaction of mammalian spermatozoa. Biochem. J. 281: 473-476 (1992).
115. Dan-Cohen, H., Sofer, Y., Schwartzman, M.L., Natarajan, R.D., Nadler, J.L. and Naor, Z. GnRH activates the lipoxygenase pathway in cultured pituitary cells: Role in gonadotropin secretion and evidence for a novel autocrine/paracrine loop. Biochemistry 31: 5442-5448 (1992).
116. Ben-Menahem, D., Shraga, Z., Hadas, Lewy, H., Limor, R., Hammel, I., Stein, R. and Naor, Z. Dissociation between release and gene expression of gonadotropin α-subunit in GnRH-stimulated αT3-1 cell line. Biochemistry 31: 12893- 12898 (1992).
117. Lewy, H., Galron, R., Bdolah, A., Sokolovsky, M. and Naor, Z. Paradoxical coupling of endothelins and sarafotoxins in cultured pituitary cells: Inhibition of prolactin release Mol. Cell. Endocrinol. 89: 1 - 9 (1992).
118. Rotem, R., Paz, G.F., Homonnai, Z.T., Kalina, M., Lax, J., Breitbart, H. and Naor, Z. Calcium-independent induction of acrosome reaction by protein kinase C in human sperm. Endocrinology 131: 2235 - 2243 (1992).
119. Ben-Menahem, D., Shraga, Z. and Naor, Z. Mechanism of action of gonadotropin releasing hormone (GnRH) upon gonadotropin secretion and gonadotropin gene expression. Experimental and Clinical Endocrinology 12: 71-85 (1993).
120. Naor, Z., Shraga-Levine, Z., Marantz, Y., Reiss, N. and Ben-Menahem, D. Signal transduction cascade of the GnRH receptor. In: Molecular and Clinical Advances in Pituitary Disorders (S. Melmed, ed.), Endocrine Research and Education, Inc., Los Angeles, CA, pp. 281-286 (1993).
121. Naor, Z. Mechanism of action of GnRH upon gonadotropin release and synthesis. In: GnRH Analogues, The State of the Art, 1993 (B. Lunenfeld and V. Insler, eds.), Parthenon, pp. 27-36 (1993).
122. Naor, Z., Reiss, N., Paz, G.F., Homonnai, Z.T., Kalina, M., Breitbart, H. and Rotem, R. Role of protein Kinase C in human sperm flagellar motility and acrosome reaction. Cell and Molecular Biology of the Testes, eds. Dufau, M.L., Fabbri, A. and Isidori, A., Ares-Serono Symposia Publications Frontiers in Endocrinology vol. 5, Rome, Italy, pp. 199-209 (1994).
123. Naor, Z., Reiss, N., Limor, R., Harris, D. and Ben-Menahem, D. Signal transduction of the gonadotropin releasing hormone (GnRH) receptor: Role of protein Kinase C. In: Lipid Mediators in Health and Disease (U. Zor, ed.), Freund Publishing House Ltd., London, U.K. (1994).
124. Ben-Menahem, D. and Naor, Z. Regulation of gonadotropin mRNA levels in cultured rat pituitary cells by gonadotropin releasing hormone (GnRH): Role for Ca^{2+} and protein kinase C. Biochemistry 33: 3698-3704 (1994).
125. Garcia-Navarro, S., Marantz, Y., Eyal, R., Kalina, M., Disatnik, M.-H., Mochly-Rosen, D., Ben-Menahem, D., Reiss, N. and Naor, Z. Developmental expression of protein kinase C subspecies in rat brain-pituitary axis. Mol. Cell. Endocrinol. 103: 133-138 (1994).
126. Ben-Menahem, D., Shraga-Levine, Z., Limor, R. and Naor, Z. Arachidonic acid and lipoxygenase products stimulate gonadotropin α-subunit mRNA levels in pituitary αT3-1 cell line: Role in gonadotropin releasing hormone action. Biochemistry 33: 12795-12799 (1994).
127. Shraga-Levine, Z., Ben-Menahem, D. and Naor, Z. Activation of protein kinase C ß gene expression by gonadotropin releasing hormone in αT3-1 cell line: Role of Ca^{2+} and autoregulation by protein kinase C. J. Biol. Chem. 269: 31028-31033 (1994).
128. Ben-Menahem, D., Shraga-Levine, Z., Hurgin, V. and Naor, Z. Mechanism of action of gonadotropin releasing hormone upon Gonadotropin α-subunit gene expression in αT3-1 cell line: Role for Ca^{2+} and Protein Kinase C. Biochemical J 309:325-329 (1995).
129. Marantz, Y., Reiss, N., Przedecki, F. and Naor, Z. Involvement of protein phosphatases in GnRH regulated gonadotropin secretion. Mol. Cell. Endocrinol. 111: 7-1 (1995).
130. Kalina, M., Socher, R., Rotem, R. and Naor, Z. Ultrastructural localization of protein kinase C in human sperm. J. Histochem. Cytochem 43: 439-445 (1995).

131. Melamed, P., Eliahu, N., Levavi-Sivan, B., Ofir, M., Farchi-Pisanty, O., Rentier-Delrue, F., Smal, J., Yaron, Z. and Naor, Z. Hypothalamic and thyroidal regulation of growth hormones in Tilapia. Gen. and Comp. Endocrinol. 97: 13-30 (1995).

132. Zamir, N., Barkan, D., Keynan, N., Naor, Z. and Breitbart, H. Atrial natriuretic peptide induces acrosomal exocytosis in bovine spermatozoa. Am. J. Physiol. 269: E216-E221 (1995).

133. Naor, Z., Rotem, R., Zamir, N., Breitbart, H. and Kalina, M. Role of protein kinase C in human sperm acrosome reaction. In: Human Sperm Acrosome Reaction (P. Fenichel and J. Parinaud, eds.), John Libbey Ltd., France, 236: 217-223 (1995).

134. Naor, Z., Shacham, S., Harris, D., Seger, R. and Reiss, N. Signal transduction of the gonadotropin releasing hormone (GnRH) receptor: Cross-talk of calcium, protein Kinase C (PKC) and arachidonic acid. Cell. and Mol. Neurobiology 15: 527-544 (1995)

135. Melamed, P., Eliahou, N., Ofir, M., Levavi-Sivan, B., Gur, G., Rentier-Delrue, F., Smal, J., Naor, Z. and Yaron, Z. Studies on the regulation of growth hormone in tilapia. In: Improving the knowledge base of modern aquaculture (Rosenthal, H., Moav, B. and Gordin, H., eds.) European Aquaculture Society Special Publication No. 25, Ghent, Belgium (1995).

136. Naor, Z. Signal transduction of the GnRH receptor. In: GnRH Analogues, The State of the Art, 1996 (B. Lunenfeld and V. Insler, eds.), Parthenon, pp. 11-20 (1996).

137. Shraga-Levine, Z., Ben-Menahem, D. and Naor, Z. Arachidonic acid and lipoxygenase products stimulate protein kinase C δ mRNA levels in pituitary αT3-1 cell line: Role in gonadotropin releasing hormone action. Biochem. J. 316: 667-670 (1996).

138. Reiss, N., Hermon, J., Oplatka, A. and Noar, Z. Interaction of purified protein kinase C with key proteins of energy metabolism and cellular motility. Biochem. Mol. Biol. Int. 38: 711-719 (1996).

139. Lewy, H., Naor, Z., and Ashkenazi, I.E. Rhythmicity of luteinizing hormone (LH) secretion expressed in vitro. Europ. J. Endocrinol. 135: 455-463 (1996).

140. Reiss, N., Oplatka, A., Hermon, J. and Naor, Z. Phosphatidylserine directs differential phosphorylation of actin and glyceraldehyde-3-phosphate dehydrogenase by protein kinase C: Possible implications for regulation of actin polymerization. Biochem. Mol. Biol. Int. 40: 1191-1200 (1996).

141. Naor, Z. Signal transduction of the GnRH receptor. In: GnRH Analogues, The State of the Art, 1996 (B. Lunenfeld and V. Insler, eds.), Parthenon, pp 11-20 (1996).

142. Naor, Z. GnRH receptor signaling: Cross-talk of Ca^{2+} and protein kinase C. Europ. J. Endocrinol. 136: 123-127 (1997).

143. Reiss, N., Nur Levi, L., Shacham, S., Harris, D., Seger, R. and Naor, Z. Gonadotropin releasing hormone activation of mitogen-activation protein (MAP) kinase in pituitary αT3-1 cell line: Differential roles of calcium and protein kinase C. Endocrinology 138: 1673-1682 (1997).

144. Harris, D., Reiss, N.and Naor, Z. Differential activation of protein kinase C δ and ε gene expression by gonadotropin-releasing hormone in αT3-1 cells: Autoregulation by protein kinase C. J. Biol. Chem. 272: 13534-13540 (1997).

145. Naor, Z. and Breitbart, H. Protein Kinase C (PKC) and mammalian spermatazoa acrosome reaction. Trends Endocrinol. Metab. 8: 337-342 (1997).

146. Lewy, H., Haus, E., Naor, Z. and Ashkenazi, I.E. Biological Clocks. Mechanisms and Application. (Y. Touitou, ed.), Proceedings of 23rd International Conference on Chronobiology, Elsevier Life Sciences, p. 431 (1998).

147. Breitbart, H. and Naor, Z. Intracellular calcium and sperm motility. In: "Male sterility for motility disorders", Serono Symposia S.A. Publication:. 45 - 53 (1999).

148. Zamir, N., Rotem, R., Keynan, N., Barkan, D., Breitbart, H. and Naor, Z. Atrial peptide induces acrosomal exocytosis of human sperm. Am. J. Physiol. 274: E218-E223 (1998).

149. Naor, Z., Harris, D. and Shacham, S. Mechanism of GnRH receptor signaling: Combinatorial cross-talk of Ca^{2+} and protein kinase C. Frontiers in Neuroendocrinology 19: 1-19 (1998).

150. Naor, Z. and Breitbart, H. Protein kinase C and exocytosis in mammalian spermatozoa. Trends Endocrinol.Metab. 9(7): 297 (1998).

151. Lewy, H., Haus, Z., Naor, Z. and Ashkenazi, I.E. Biological Clocks: Mechanisms and Application (Touitou, Y., ed.) Proceedings of 23rd International Conference on Chronobiology, Elsevier Life Sciences, p. 431. (1998).

152. Levi, N. L., Hanoch, T., Benard, O., Rozenblat,M., Harris, D., Reiss, N., Naor, Z. And Seger, R. Stimulation of Jun N-Terminal Kinase (JNK) by Gonadotropin Releasing Hormone in Pituitary αT3-1 Cell Line Is Mediated by Protein Kinase C, c-Src, and CDC42. Mol. Endo. 12: 815-824 (1998).

153. Zamir, N., Rotem, R., Keynan, N., Barkan, D., Breitbart, H. and Naor, Z. Atrial natriuretic peptide induces acrosomal exocytosis of human sperm. Am. J. Physiol. 274: E218-E223 (1998).

154. Shacham, S., Cheifetz, M.N., Lewy, H., Ashkenazi, I.E., Becker, O.M., Seger, R. and Naor, Z. Mechanism of GnRH receptor signaling: from the membrane to the nucleus. Ann. Endocrinol. 60: 79-88 (1999).

155. Lewy, H., Naor, Z. and Ashkenazi, I.E. From ultradian to infradian rhythms: LH release patterns *in vitro*. Chronobiology In 16(4) (1999).

156. Anis, Y., Reiss, N., Naor, Z. and Cohen-Armon, M. Activation of Go-proteins by membrane depolarization traced by *in situ* photoaffinity labeling of $G\alpha_o$-proteins with [α^{32}P]GTP-azidoanilide. J. Biol. Chem. 11: 7431-7440 (1999).

157. Breitbart, H. and Naor, Z. Protein kinases in mammalian sperm capacitation and the acrosome reaction. Reviews of Reproduction 4 (3): 151-159 (1999).

158. Moshonov, S., Zor, U., and Naor, Z. Prostaglandins and stress. Chapter in "Encyclopaedia of Stress", Academic Press Vol 3: 266-273 (2000).

159. Naor, Z., Benard, O. and Seger, R. Activation of MAPK cascades by G protein- coupled receptors: The case of gonadotropin-releasing hormone receptor. Trends Endocrinol. Metab. 11: 91-99 (2000).

160. Benard. O., Naor, Z. and Seger. R. Role of dynamin, Src and Ras in the PKC-mediated activation of ERK by GnRH. J. Biol. Chem. 276: 4554-4563 (2001).

161. Shacham, S., Harris, D., Ben-Shlomo, H., Cohen, I., Bonfil, D., Przedecki, F., Lewy, H., Askenazi, I.E., Seger, R. and Naor, Z. Mechanism of GnRH receptor signaling on gonadotropin release and gene expression in pituitary gonadotrophs. Vitamins and Hormones 63: 63-90 (2001).

162. Shacham, S., Topf, M., Avisar, N., Glase, F., Maranz, Y., Bar-Haim, S., Noiman, S., Naor, Z. and Becker, O., Modeling the 3D structure of GPCRs from sequence. Med. Res. Rev. 21: 472-483 (2001).

163. Gur, G., Bonfil, D., Safarian, H., Naor, Z. and Yaron, Z. GnRH receptor signaling in tilapia pituitary cells: role of mitogen-activated protein kinase (MAPK). Comp. Biochem. and Physiol. 129: 517-524 (2001).

164. Kraus, S., Naor, Z. and Seger, R. Intracellular signaling pathways mediated by the gonadotropin-releasing hormone (GnRH) receptor. Archives of Medical Res. 32: 499-504 (2001).

165. Lewy, H., Shub, Y., Naor, Z. and Ashkenazi, I.E. Temporal pattern of LH secretion: regulation by multiple ultradian oscillators versus a single circadian oscillator. Chronobiol. Int. 18:399-412 (2001).

166. Mangelus, M., Galron, R., Naor, Z. and Sokolovsky, M. Involvement of NF-κB in endothelin-A-receptor-induced proliferation and inhibition of apoptosis. Cell Mol. Neurobiol 21:657-674 (2002).

167. Harris, D., Bonfil, D., Huderland, D., Seger, R. and Naor, Z. Activation of mitogen-activated protein kinase (MAPK) cascades by GnRH: Extracellular signal regulated kinase (ERK) and Jun N-terminal kinase (JNK) are involved in basal and GnRH-stimulated activity of the glycoprotein hormone LHβ subunit promoter. Endocrinology 143: 1018-1025 (2002).

168. Gur, G., Bonfil, D., Safarian, H., Naor, Z. and Yaron, Z. PACAP and NPY regulation of gonadotropin subunit gene expression in tilapia: role of PKC, PKA and ERK activation by gonadotropin-releasing hormone in COS7 cells. Neuroendocrinology 75: 164-174 (2002).

169. Gur, G., Bonfil, D., Safarian, H., Naor, Z. and Yaron, Z. GnRH signaling pathways regulate differentially the tilapia gonadotropin subunit genes. Mol. Cell Endocrinol. 189:125 –133 (2002).

170. Kraus, S., Benard, O., Naor, Z .and Seger, R. c-SRC is activated by EGF-receptor in a pathway that mediates JNK and ERK activation by gonadotropin-releasing hormone in COS7 cells. J. Biol. Chem. 278: 32618-32630 (2003).

171. Lewy, H., Ashkenazi I.E. and Naor, Z. Proliferation and cell cycle control of pituitary cells and LβT2 gonadotroph cell line by GnRH and estradiol Mol Cell Endocrinol 203: 25-32 (2003).

172. Limor, R., Naor, Z., Weisinger, G., Gilad, S., Knoll, E., Sharon, O. and Stern, N. Gonadotropin releasing hormone activates the 12-lipoxygenase pathway in Lβt2 gonadotrope cell line. Neuroendocrinology 77: 291-297 (2003).

173. Harris, D., Chuderland, D., Bonfil, D., Seger, R. and Naor, Z. Extracellular signal-regulated kinase and c-Src, but not Jun N-terminal kinase, are involved in basal and gonadotropin-releasing hormone-stimulated activity of the glycoprotein hormone alpha-subunit promoter. Endocrinology 144:612-622 (2003).

174. Kraus, S., Levy, G., Hanoch, T., Naor, Z. and Seger, R. Gonadotropin-Releasing Hormone Induces Apoptosis of Prostate Cancer Cells: Role of c-Jun NH_2-Terminal Kinase, Protein Kinase B, and Extracellular Signal-Regulated Kinase Pathways. Cancer Research 64: 5736-5744 (2004).

175. Bonfil, D., Chuderland, D., Kraus, S., Dhahbazian, D., Friedberg, I., Seger, R. and Naor, Z. Extracellular Signal-Regulated Kinase (ERK), Jun N-Terminal Kinase (JNK), p38 and c-Src are involved in GnRH-Stimulated Activity of the Glycoprotein Hormone FSHβ-Subunit Promoter. Endocrinology 145: 2228-2244 (2004).

176. Shacham, S., Marantz, Y., Bar-Haim, S., Kalid, O., Warshaviak, D., Avisar, N., Inbal, B., Heifetz, A., Fichman, M., Topf, M., Naor, Z., Noiman, S. and Becker, O.M. PREDICT Modeling and in-silico screening for G-protein coupled receptors. Proteins 57: 51-86 (2004).

177. Yaniv SP, Naor Z, Yanai J. Prenatal heroin exposure alters cholinergic receptor stimulated activation of the PKCbetaII and PKCgamma isoforms. Brain Res Bull. 63: 339-49 (2004).

178. Naor, Z., Bonfil, D., Naidich, M., Dobkin, M., Levy, G., Kraus, S., Millar, R.P. and Seger, R. Role of Mitogen Activated Protein Kinase (MAPK) in GnRH Receptor Signaling in Pituitary and Prostate Cancer Cells. In: Proceedings of the 12th International Congress of Endocrinology, Lisbon, Portugal, MEDIMOND, pp 285-292, 2004.

179. Shacham, S., Cheifetz, M.N., Fridkin, M., Pawson, A.J., Millar, R.P. and Naor, Z. Identification of Ser^{153} in ICL2 of the GnRH Receptor as a Phosphorylation-independent Site for Inhibition of G_q Coupling. J. Biol. Chem. 280: 28981-28988 (2005).

180. Pawson,AJ , Maudsley S. ,Morgan, K.,Davidson L., Naor Z., and Millar P. Inhibition of Human Type I Gonadotropin-Releasing Hormone Receptor(GnRHR) Function by Expression of a Human TypeII GnRHR Gene Fragment Endocrinology 146:2639-2649 (2005).

181. Sales,K.J ,List T.,Boddy S.C.,Williams,A.R.W.,Anderson R.A.,Naor Z.and Jabbour H.N. A Novel Angiogenic Role for Prostglandin F2 alpha-FP Receptor Interaction in Human Endometrial Adenocarcinomas . Cancer Res 65:7707-7716 (2005).

182. Grundker, C., Naor, Z., Millar, R.P. Seger, R, Leung, P.C. and Emons, G. "Mechanism of action of GnRH" in GnRH Analogues in Human Reproduction –, Ed B. Lunenfeld, Taylor & Francis, UK 1-34 (2005).

183. Naor, Z., Millar, R.P. and Seger, R. " Signalling of GnRH reeceptor in pituitary gonadotropes" in GnRH Analogues in Human Reproduction –, Ed B. Lunenfeld, Taylor & Francis, UK 1-13 (2005).

184. Kraus S, Naor Z, Seger R Gonadotropin releasing hormone in apoptosis of prostate cancer cells. Cancer Lett.234:109-123 (2006).

185. Dobkin-Bekman M, Naidich M, Pawson AJ, Millar RP, Rony Seger R, Naor Z. Activation of Mitogen-activated protein kinase (MAPK) by GnRH is cell-context dependent. Mol Cell Endo 252: 184-190 (2006).

186. Naor, Z., Jabbour, H.N., Naidich, M., Pawson, A.J., Morgan, K., Battersby, S., Millar, M.R., Brown, P. and Millar, R.P. Reciprocal cross-talk between Gonadotropin-releasing Hormone (GnRH) and Prostaglandin receptors regulates GnRH receptor expression and differential gonadotropin secretion. Mol Endo 21: 524-537 (2007).

187. Maudsley, S., Naor, Z., Bonfil, D., Davidson, L., Karali, D., Pawson, A.J., Larder, R., Griffin, C., Millar, R.P. and Brown, P. Pyk2 mediates GnRH signaling specific ERK-sensitive transcriptional locus in the luteinizing hormone β-subunit gene Mol Endo 21: 1216-1233 (2007).

188. Lopez de Maturana, R., Martin, B., Millar, R.P., Brown, P., Davidson, L., Pawson, A.J., Nicol, M.R., Mason, J.I., Barran, P., Naor, Z., and Maudsley, S. GnRH-Mediated DAN Production Regulates the Transcription of the GnRH Receptor in Gonadotrope Cells. Neuromolecular Medicine 9:230-248 (2007).

189. Pawson, A. J., Faccenda, E., Maudsley, S., Lu, Z. L., Naor, Z. and Millar, R.P. Mammalian Type I GnRH Receptors Undergo Slow, Constitutive, Agonist-Independent Internalization. Endocrinology 149: 1415-1422 (2008).

190. Almog, T. and Naor, Z. Mitogen activated protein kinases (MAPKs) as regulators of spermatogenesis and spermatozoa functions. Mol Cell Endocrinol. 282:39-44 (2008).

191. Somjen, D., Tordjman, K., Katzburg, S., Knoll, E., Sharon, O., Limor, R., Naidich, M., Naor, Z., Hende, D. and Stern, N. Lipoxygenase metabolites are mediators of PTH-dependent human osteoblast growth. Bone. 42:491-7 (2008).

192. Almog, T., Lazar, S., Reiss, N., Etkovitz, N., Milch, E., Rahamim, N., Dobkin-Bekman, M., Rotem, R., Kalina, M., Ramon, J., Raziel, A., Brietbart, H., Seger, R. and Naor, Z. Identification of Extracellular-regulated kinase 1/2 and p38MAPK as regulators of human sperm motility and acrosome reaction and as predictors of poor spermatozoa quality. J Biol. Chem. 283: 14479-14489 (2008).

193. Naor, Z. Signaling by G-protein-coupled receptor (GPCR): Studies on the GnRH receptor. Frontiers in Neuroendocrinology. 30: 10-29 (2009).

194. Dobkin-Bekman, M., Naidich, M., Rahamim, L., Przedecki, F., Almog, T., Lim, S., Melamed, P., Liu, P., Wohland, T., Yao, Z., Seger, R, and Naor, Z. A Pre-formed Signaling Complex Mediates GnRH-Activated ERK-Phosphorylation of Paxillin and FAK at Focal Adhesions in LβT2 Gonadotrope Cells. Mol Endo 23: 1850-1864 (2009).

195. Lim, S., Pnueli, L., Tan, J.H., Naor Z., Rajagopal, G. and Melamed, P. Negative feedback governs gonadotrope frequency-decoding of gonadotropin releasing hormone pulse-frequency. PLOS one 4:e7244 (2009).

196. Almog, T. and Naor, Z. The role of Mitogen activated protein kinase (MAPK) in sperm functions. Mol Cell Endocrinol. 314 :239-43 (2010).

197. Dobkin-Bekman, M., Ben-Navi, L. R., Shterntal, B., Sviridonov, L., Przedecki, F., Naidich-Exler, M., Brodie, C., Seger, R, and Naor, Z. Differential Role of PKC Isoforms in GnRH and phorbol 12-myristate 13-acetate Activation of Extracellular Signal-Regulated Kinase and Jun N-Terminal Kinase. Endocrinology 151: 4894-4907 (2010).

198. Naidich, M., Shterntal, B., Furman, R., Pawson, A., Jabbour, H.N., Morgan, K., Millar, R.P., Jia, J., Tomic, M., Stojilkovic, S., Stern, N, and Naor, Z. Elucidation of Mechanisms of the Reciprocal Cross-talk between Gonadotropin-Releasing Hormone (GnRH) and Prostaglandin Receptors. Endocrinology 151: 2700-2712 (2010).

199. Ben-Ami, I., Yao,Z., Naor, Z., Seger, R. Gq Protein-induced Apoptosis Is Mediated by AKT Kinase Inhibition That Leads to Protein Kinase C-induced c-Jun N-terminal Kinase Activation. J Biol Chem. 286:31022-31 (2011).

200. Kauschansky, A., Orvieto, R., Yeshaya, A., Shterntal, B., Naor, Z. Insight: Prolonged Vaginal Bleeding during Central Precocious Puberty Therapy with a Long-acting Gonadotropin-Releasing Hormone Agonist: A Proposed Mechanism and Management Plan. J Pediatr Adolesc Gynecol. 24: 365-367 (2011).

201. Sviridonov, L., Dobkin-Bekman, M., Shterntal, B., Przedecki, F., Formishell, L., Kravchook, S., Rahamim-Ben Navi, L., Bar-Lev, TH., Kazanietz, M., Yao, Z., Seger, R., and Naor, Z. Differential signaling of the GnRH receptor in pituitary gonadotropes and prostate cancer cells Mol Cell Endocrinology 369: 107-118 (2013).

202. Naor, Z. and Huhtaniemi, I. Interactions of the GnRH receptor with heterotrimeric G proteins. Frontiers in Neuroendocrinology 34: 88-94 (2013).

203. Mugami, S., and Kravchook, S. and Naor, Z. Role of PKC isoforms in p38MAPK activation by GnRH and localization of p38MAPK in pituitary gonadotropes. (Manuscript in preparation).

204. Rahamim Ben Navi, L., Almog, T., Yao,Z., Seger,R. and Naor, Z. Pro-AKAP4 is a substrate and regulator of ERK1/2 in human sperm. (Manuscript in preparation).

205. Rahamim Ben Navi, L. and Naor Z. Blebs and signalosome can mix at focal adhesion and regulate divers cell physiological tasks. (Manuscript in preparation).

206. Bar Lev, T., and Naor, Z. Activation and role of PI3K/AKT in MAPKs activation during GnRH actions. (manuscript in preparation)

207. Band, G., Rahamim Ben Navi, L., Almog, T and Naor, Z. Effect of sperm ligands on motility, capacitation, acrosome reaction and fertilization via ERK1/2-mediated cascades. (Manuscript in preparation).

E. Reviews and Articles in Hebrew

1. Naor, Z., Zor, U. and Floman, Y. The role of prostaglandins in the regulation of body temperature. Harefuah 89: 227 (1975).
2. Floman, Y., Naor, Z. and Zor, U. Prostaglandings, inflammation and arthritis. Harefuah 92: 277 (1976).
3. Naor, Z., Lamprecht, S.A. and Zor, U. Prostaglandins and reproduction. Harefuah 92: 74 (1977).
4. Naor, Z. and Zor, U. The Nobel Prizes in Physiology and Medicine, 1982. Harefuah 103: 366 (1982).
5. Zakut, H., Naor, Z. and Zilberstein, M. The effect of gonadotropin releasing hormone (GnRH) on hypophysis and gonads. Harefuah 104: 308 (1983).
6. Zakut, H., Birkenfeld, S., Krispin, M., Naor, Z. and Zilberstein, M. The use of GnRH analogs in the treatment of hormone dependent tumors. Harefuah 106: 477 (1984).
7. Zakut, H., Naor, Z. and Zilberstein, M. The interaction of prostacyclin and thromboxane in the uterus. Harefuah 106: 529 (1984).
8. Goldberg, I., Elizur, A. and Naor, Z. Gonadotropin releasing hormone: Sexual behavior and psychosexual disorders. Harefuah 121: 240 (1991).
9. Naor, Z. Hormones and Human Nature. Machshavot, IBM Publications, May (1992).

F. Articles in newspapers

1. Weekly column in 25 periodical (under Mr. Rino Zror) of 800 - 1500 words each on popular biological sciences in Israeli newspapers and periodicals, 1993-1994
2. Numerous appearances on TV and media to promote chemistry.
3. Samples of such articles are found in 4 articles on popular biological science subjects in the Ha'aretz newspaper: September 27, 1999, November 19, 1999, December 24 1999 and December 14, 2001.

G. Patents

1. O. M. Becker, S. Shacham, M. Topf and Z. Naor, "A Method and System for Prediction of a 3D structure of a G-protein Coupled Receptors' 2001, PCT/IL01/00768
2. O. M. Becker, S. Shacham, M. Topf and Z. Naor, "A Method and System for Prediction of a 3D structure of a transmembrane protein (Filed by Ramot of Tel-Aviv University in the USA, 2002; 0016091-01-00
3. Z. Naor "The use of agents modulating MAPK of spermatozoa as fertility and contraceptive medicaments" (Filed by Ramot of Tel-Aviv University in the USA, 2002; 60/348,379).
4. Z. Naor, H. Jabbour and R.P. Millar "Combination treatment methods for targeting sex-hormone dependent diseases and fertility treatment" (Filed by MRC, UK and ARDANA in the UK, WO 2006/106311 A3)
5. Z. Naor, Ramot reference: 2007006-00-00 - 'Combination therapy of GPCR ligands (agonists and antagonists) with prostanoid receptors agonists and antagonists'
6. Z. Naor, Ramot reference: 2007014-00-00 'Identification of human ERK1 and p38 MAPK as predictors of poor spermatozoa quality'

H. Recent Conferences:

1. **The 36th Annual Meeting of the Israel Endocrine Society, Ramat-Gan, 2007, P86:** Novel Roles for p38MAPK and ERK1/2 in human spermatozoa: regulation of flagellar motility, hyperactivation and acrosome reaction. Almog, T., Etkovitz, N., Breitbart, H., Naor, Z**.**
2. **Annual Meeting of the Israel Society of Fertility, 14, 2007:** Identification of ERK1/2 and p38MAPK as Regulators of Human Sperm Motility and Acrosome Reaction. Almog, T., Etkovitz, N., Breitbart, H., Naor, Z**.**
3. **The 5th Congress of the Federation of the Israel Societies for Expermiental Biology. PB-276, Eilat 2008:** Novel Roles for p38MAPK and ERK1/2 in human spermatozoa: regulation of flagellar motility, hyperactivation and acrosome reaction. Almog, T., Lazar, S., Reiss, N., Etkovitz, N., Rahamim, N., Dobkin-Bekman, M., Rotem, R., Kalina, M., Breitbart, H., Seger, R., Naor, Z.
4. **Annual Meeting of the Israel Society of Fertility, 2008.** New Roles for MAPKs: ERK1/2 and p38 in human sperm functions. Almog, T., Etkovitz, N., Breitbart, H., Naor, Z**.**
5. **41st Annual Meeting of the Society for the Study of Reproduction. (70). Hawaii 2008.** New Roles for MAPKs: ERK1/2 and p38 in human sperm functions. Almog, T., Etkovitz, N., Breitbart, H., Naor, Z**.**
6. **The Israel Society for Neuroscience, 17th Annual Meeting, Eilat, Dec. 7 - 9, 2008. Session C, Poster 1:** A Pre-formed Signaling Complex Mediates GnRH-Activated ERK-Phosphorylation of Paxillin and FAK at Focal Adhesions in LbT2 Gonadotrope Cells. Dobkin-Bekman M., Rahamim L., Naidich M., Przedecki F., Almog T. and Naor Z.
7. **Cancer Biology Research Center, Ma'alot, May 7-9,2009. Poster 23** A Pre-formed Signaling Complex Mediates GnRH-Activated ERK-Phosphorylation of Paxillin and FAK at Focal Adhesions in LbT2 Gonadotrope Cells. Dobkin-Bekman M., Rahamim L., Naidich M., Przedecki F., Almog T. and Naor Z.
8. **The 38th Annual Meeting of the Israel Endocrine Society, 30-31 March 2009, Kfar haMaccabia, Ramat-Gan. Poster.** A Pre-formed Signaling Complex Mediates GnRH-Activated ERK-Phosphorylation of Paxillin and FAK at Focal Adhesions in LbT2 Gonadotrope Cells. Dobkin-Bekman M., Rahamim L., Naidich M., Przedecki F., Almog T. and Naor Z.
9. **The 36th Annual Meeting of the Israel Endocrine Society, 17-18 April 2007, Kfar haMaccabia, Ramat-Gan.FC9,A42.Oral presentation.** Role of PKC in GnRH activation of Extracellular Signal-Regulated Kinase (ERK) and Jun N-Terminal Kinase (JNK). M. Dobkin-Bekman , R. Seger, Z. Naor.
10. **GnRH: New Frontiers, In Honor of Zvi Naor, 4 August 2014**, The Lipsett Auditorium, NIH, USA.