

#C625271 : MAJOR ZOOLOGY

KEY WORD: GnRH ANALOGS/ LH SECRETION/RATS

SUPPASIT SRETTRASERT : EFFECT OF GnRH ANALOGS ON LH SECRETION
FROM ANTERIOR PITUITARY GLAND IN RATS. THESIS ADVISOR :
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The aim of this study was to elucidate the effect of GnRH analogs; D-Ala⁶ GnRH, D-Ala⁶ Pro⁹ ethylamide GnRH and D-Ala⁶ Pro⁹ diethylamide GnRH on LH secretion from anterior pituitary gland of female rats, aged 90-120 days. After one month of ovariectomy, rats were subcutaneously injected with estradiol benzoate (50 ug/rat) and progesterone (25 mg/rat) for 72 hours before the injection of GnRH analogs. The rats were divided into 4 groups (10 rats/group); control group was intravenously injected with saline other 3 groups were injected with D-Ala⁶ GnRH, D-Ala⁶ Pro⁹ ethylamide GnRH and D-Ala⁶ Pro⁹ diethylamide GnRH at doses of 100 ng/rat. The blood samples were collected by cardiac puncture 15 minutes after injections. Serum was analyzed for LH level by bioassay method. It has been found that LH levels after saline, D-Ala⁶ GnRH, D-Ala⁶ Pro⁹ ethylamide GnRH and D-Ala⁶ Pro⁹ diethylamide GnRH injection were 300 ± 100 , 620 ± 164 , 740 ± 134 and 343 ± 113 ng/ml respectively. Results obtained indicated that D-Ala⁶ GnRH analog with ethylamide at the tenth position is the most effective analog in stimulating LH secretion compared with D-Ala⁶ GnRH and D-Ala⁶ Pro⁹ diethylamide GnRH.

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