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## Czech Journal of Animal Science

Effects of non-steroidal gonadal factors on LH secretion in female common carp during the reproductive cycle

Chyb J., Mikolajczyk T., Sokolowska-Mikolajczyk M., Socha M., Szczerbik P., Biedroń D., Dębowska M., Kasiuk M., Madej J., Podczerwińska E., Adamek M., Epler P.:

Czech J. Anim. Sci., 53 (2008): 398-403

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The aim of this study was to evaluate the effects of recombinant human inhibin A, recombinant human activin A and desteroidized ovarian extract on LH secretion *in vitro* and *in vivo* in female

common carp during different stages of reproductive cycle. Inhibin stimulated spontaneous as well as GnRH-stimulated LH release *in vivo* in fish during gonadal recrudescence. This hormone did not have an influence on spontaneous LH secretion in the periovulatory period, but had a slightly inhibitory effect on GnRH-stimulated LH release in this stage of gonad maturity. Activin decreased spontaneous LH secretion during gonadal recrudescence and increased LH secretion before ovulation, having no effects on GnRH-stimulated LH release during both stages of gonad maturity. The dosteroidized ovarian extract failed to modify spontaneous LH secretion, but decreased GnRH-stimulated LH release during recrudescence and especially before ovulation. It is to conclude that these data suggest the differential role of inhibin/activin as substances in the regulation of LH secretion in common carp females.

**Keywords:**

inhibin; activin; ovarian extract; LH; common carp; aquaculture

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