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The influence of sGnRH-A and antidopaminergic drug – pimozone – on prolactin mRNA synthesis in female Prussian carp (*Carassius gibelio* Bloch) *in vivo*

J. Chyb, M. Socha, P. Szczerbik, M. Sokolowska-Mikolajczyk, T. Mikołajczyk, P. Epler

<https://doi.org/10.17221/6523-CJAS>

Citation: Chyb J., Socha M., Szczerbik P., Sokolowska-Mikolajczyk M., Mikołajczyk T., Epler P. (2013): The influence of sGnRH-A and antidopaminergic drug – pimozone – on prolactin mRNA synthesis in female Prussian carp (*Carassius gibelio* Bloch) *in vivo*. Czech J. Anim. Sci., 58: 31-36.

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Effects of salmon gonadotropin releasing hormone analogue (sGnRH-A) and antidopaminergic drug, pimozone, on the synthesis of prolactin mRNA *in vivo* in female Prussian carp (*Carassius gibelio* Bloch) during two different stages of the reproductive cycle were evaluated. The results showed that the lowest dose of sGnRH-A (5 µg/kg body weight) significantly stimulated the mRNA synthesis in fish during the recrudescence as well as during the preovulatory period, higher doses of this compound having no significant effect on prolactin mRNA synthesis. The blocker of dopamine receptors, pimozone, also potentiated prolactin mRNA synthesis – in recrudescence females it increased mRNA levels at the dose of 1 mg/kg, while in the preovulatory period all of the used pimozone doses (1, 5, and 10 mg/kg) were responsible for the increase of prolactin mRNA levels. Taken together, the above results suggest that gonadotropin releasing hormone (GnRH) is the factor responsible for the stimulation of prolactin synthesis, while dopamine has an inhibitory influence on the prolactin production.

Keywords:

PRL; gonadotropin releasing hormone; dopamine; fish; mRNA synthesis; pituitary

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5-Year Impact Factor: **1.06**

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