

# 水生态学杂志

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大鲵尿液性激素水平季节变化及其与繁殖的关系

## Urinary season change of sexual hormone level in *Andrias davidianus* in relation to breeding

投稿时间: 2012-04-16 最后修改时间: 2012-05-07

中文关键词:[大鲵](#) [尿液](#) [雌二醇](#) [睾酮](#) [季节变化](#) [繁殖](#)

英文关键词:[Andrias davidianus](#) [urine](#) [estradiol](#) [testosterone](#) [seasonal change](#) [breeding](#)

基金项目:

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中文摘要:

本研究通过检测大鲵尿液雌二醇和睾酮水平的季节性变化, 探讨其性激素水平季节性变化规律及其与繁殖的关系。结果表明: 雌二醇含量呈年度周期性变化, 表现为生殖季节前逐渐达到顶峰, 繁殖期过后逐渐降低至正常值, 呈抛物线变化。7月中旬为最大值, 3月初为最小值。当雌性个体雌二醇水平高于946.45pg/ml, 雄性个体睾酮含量高于29.54ng/dl, 且继续上升时, 适时催产可促使雌鲵产卵和雄鲵排精, 且精卵质量好。低于此值, 一般不能产卵或排精。

英文摘要:

This study detected the urinary estradiol(E2) and testosterone(TT) levels in *Andrias davidianus* to probe the seasonal changes pattern of sexual hormone level in *Andrias davidianus* and the relationship between hormone level and breeding. The results showed a periodical seasonal changes of estradiol level was detected. It gradually reached maximum when the reproductive season was coming, and decreased to normal level after breeding. The maximal level appeared at middle of July, and the minimum concentration was found at early of March. When E2 concentration of female falled 946.45pg/ml,below 946.45pg/ml, TT level of males increased above 29.45ng/dL even kept increasing, an artificial induced breeding can be performed, that would make females spawn and males release sperms with good quality. While the levels were not achieved, the animals usually can not breed.

邹忠义.2012.大鲵尿液性激素水平季节变化及其与繁殖的关系 [J].水生态学杂志,33(4):128-131.

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