Maternal transferring of thyroid hormones in Stellate sturgeon (*Acipenser stellatus*)

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Abstract:
Fish reproduction is regulated by coordination of many factors and hormones. Thyroid hormones with maternal origin have major roles in physiological migration mechanism, successful reproduction and early development. Thyroid hormones can be transferred into the oocytes that lead to the balance of egg hormones and improvement of egg quality and larval. Variations of thyroid hormones from brooders to developing oocytes in teleosts have been well documented, but in sturgeon are still unknown. The purpose of the current study was to assess thyroid hormones in blood, ovarian fluid and oocytes that lead to the new information on reproductive roles of thyroid hormones in sturgeon.

Keywords: Maternity, Oocyte, Ovarian, Stellate sturgeon, Thyroxine