

Supplementary Material 2: Procedure for obtaining gametes. 1) fish were anesthetized in cold water. 2) The fish was placed on a damp sponge to avoid flaking. 3) for some females it was necessary the application of Ovaprim (sGnRHa + Domperidona) to stimulate the gametes maturation, the hormone was applied to the base of the dorsal fin following manufacturer's instructions. 4) to obtain the gametes in both sexes an abdominal massage was performed in a cranio-caudal direction. 5) The oocytes were fixed in a 0.625% glutaraldehyde solution in a phosphate buffer, pH 7.4, and the ejaculate was placed in a capillary for hematocrit.

