

雌核发育银鲫与两性生殖彩鲫卵壳蛋白组分的比较分析及其受精前后的变化 Comparative Analysis on the Protein Composition of Egg Chorions between Gynogenetic Silver Crucian Carp and Gonochoristic Color Crucian Carp and the Changes during Fertilization

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摘要 以雌核发育银鲫和两性生殖彩鲫的成熟卵为材料, 分离卵壳, 经处理得到卵壳可溶性蛋白组分。SDS-PAGE梯度凝胶电泳分析在雌核发育银鲫中揭示出3条较明显的差异蛋白带。同时, 采用相同处理方法对受精前后卵壳蛋白组分进行比较分析后发现, 这些差异蛋白带在受精后发生了变化, 其带纹表现为减弱或消失, 表明这些差异蛋白可能与受精过程相关。

Abstracts: Egg chorions were isolated from unfertilized and fertilized eggs of gynogenetic silver crucian carp and gonochoristic color crucian carp by homogenization and further purification techniques. Then, soluble proteins were extracted from the isolated egg chorions, and were analyzed by gradient SDS-PAGE. Three differential protein bands were revealed between the gynogenetic silver crucian carp and gonochoristic color crucian carp. Furthermore, these differential proteins were demonstrated to undergo obvious changes during fertilization. It was suggested that these differential proteins should be related to the special fertilization process in gynogenetic silver crucian carp.

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