

RINGKASAN

SRI HANDAYANI. Respon Pemberian Kelenjar Hipofisa Ayam Layer Afkir terhadap Waktu Latensi, Derajat Fertilisasi dan Derajat Penetasan Telur Ikan Komet (*Carassius auratus auratus*). Dosen Pembimbing I: A. Shofy Mubarak, M.Si., S.Pi. Dosen Pembimbing II: Laksmi Sulmartiwi, MP., S.Pi.

Ikan komet (*Carassius auratus auratus*) adalah ikan hias air tawar yang banyak dibudidayakan di Jawa Timur. Ikan komet memiliki pasaran dan permintaan yang stabil, namun ketersediaan benih masih menjadi kendala dalam usaha budidaya. Salah satu teknologi pembenihan yang dapat dilakukan untuk mengatasi masalah tersebut adalah hipofisasi. Hipofisasi dapat dilakukan dengan memanfaatkan kepala ayam *layer* afkir sehingga tidak mengorbankan ikan donor. Tujuan dari penelitian ini adalah untuk mengetahui respon hipofisa ayam *layer* afkir terhadap waktu latensi, derajat fertilisasi dan derajat penetasan telur ikan komet (*Carassius auratus auratus*).

Adaptasi dilakukan pada 20 induk ikan komet betina dan 40 induk ikan komet jantan selama 3 bulan. Perlakuan terdiri dari dosis penyuntikan yang berbeda yaitu 0, 100, 300 dan 500 mg per kilogram berat tubuh ikan komet. Penelitian ini menggunakan Rancangan Acak Lengkap dengan 4 perlakuan dan 5 ulangan. Parameter utama yang diamati, yaitu waktu latensi, derajat fertilisasi dan derajat penetasan telur ikan komet. Data dianalisis menggunakan ANOVA (*Analysis of Variance*) dengan taraf kepercayaan 5%.

Hasil Anova menunjukkan bahwa penyuntikan kelenjar hipofisa ayam *layer* afkir dengan dosis yang berbeda memberikan pengaruh yang tidak berbeda nyata ($p > 0,05$) terhadap waktu latensi, derajat fertilisasi dan derajat penetasan telur ikan komet. Berdasarkan hasil penelitian waktu latensi rata-rata terjadi 35 jam setelah penyuntikan, derajat fertilisasi berkisar antara 59,186%-67,802% dan derajat penetasan telur berkisar antara 51,472%-63,098%.

SUMMARY

SRI HANDAYANI. Response of Donor Hypophysa of Non Produktive Chicken Layer on Latency Time, Fertilization Rate and Hatching Rate of Comet Fish (*Carassius auratus auratus*). Lecturer of concelour I: A. Shofy Mubarak, M.Si., S.Pi. Lecturer of concelour II: Laksmi Sulmartiwi, MP., S.Pi.

Comet (*Carassius auratus auratus*) is ornamental fish which has cultured in East Java. It has stabilize market and demand, but the supply still become a problem in cultured. One of hatchery technology can be used to solve it is hypophysation. It can do by using the chicken layer's head to avoid sacrifice the donor fish. The aim of this research were find out the response of donor hypophysa of old chicken layer on latency time, fertilization rate and hatching rate of comet fish (*Carassius auratus auratus*).

There were twenty female and fourty male comet fish adapted for three months. The treatment consist of four level dosages injection were 0, 100, 300, 500 mg per kilogram of fish body weight. This research used Randomized Completely Design with four treatment and five replication. The main parameter which observed were latency time, fertilization rate and hatching rate of comet fish. Data were analysed by Analysis of Variance (ANOVA) with 5% significancy.

The result of Anova indicate that hypophysa of old chicken layer has no effect ($p>0,05$) on latency time, fertilization rate and hatching rate of comet fish. The result of this research has find out the range of latency time was about 35 hour after injection, fertilization rate from 59,186%-67,802%, and hatching rate from 51,472%-63,098%.

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