

## THE EFFECT OF OF SPIRULINA FLOUR ADDITION ON SYNTHETIC FEED TO THE COLOR INTENSITY OF GOLD FISH (*Carassius auratus*)

Karina Noviyanti<sup>1</sup>, Tarsim<sup>2</sup>, Henni Wijayanti<sup>2</sup>, dan Agus Setyawan<sup>2</sup>

### ABSTRACT

Gold fish is one of ornamental fish which is much in demand due to its body shape and color. The beauty indicator of ornamental fish is on its color quality. Carotenoid is the main natural component of color pigment creator which gives good enough effect on orange color on gold fish (*Carassius auratus*). One of carotenoid source is on spirulina flour. This study aimed to determine the effect of spirulina flour addition on synthetic feed to the color intensity of gold fish. This study used Completely Randomized Design (CRD), with five treatments and three replications (spirulina flour addition as much as 0%, 0,3%, 0,6%, 0,9%, and 1,2% in synthetic feed). This study used gold fish with size of  $\pm 5$  cm which was taken care in the aquarium with size of 50x40x40 cm<sup>3</sup>. The parameters of this study consisted of color intensity, pH, temperature, and DO. The result of this study showed that spirulina flour addition as much as 1,2 gram was influential to color intensity and growth of gold fish (*Carassius auratus*).

Key words: Gold fish, Color Intensity, Carotenoid,, Growth, Spirulina Flour