

# METHOD OF STIMULATING GROWTH AND RESISTANCE TO DISEASES OF AQUATIC ORGANISMS

## Figures

Figure 1. Tilapia IGF mRNA levels and serum GH levels in juvenile tilapia injected with the GHRP-6 peptide. Each group intraperitoneally injected was of three animals. Liver and serum sample were taken 15min, 30 min, 60min and 360min post injection. A sample serum was taken from each animal before the treatment. \*Significantly different from the control group ( $p < 0.001$  ANOVA, Duncan test) tiGH: tilapia growth hormone. The bars show the standard error.

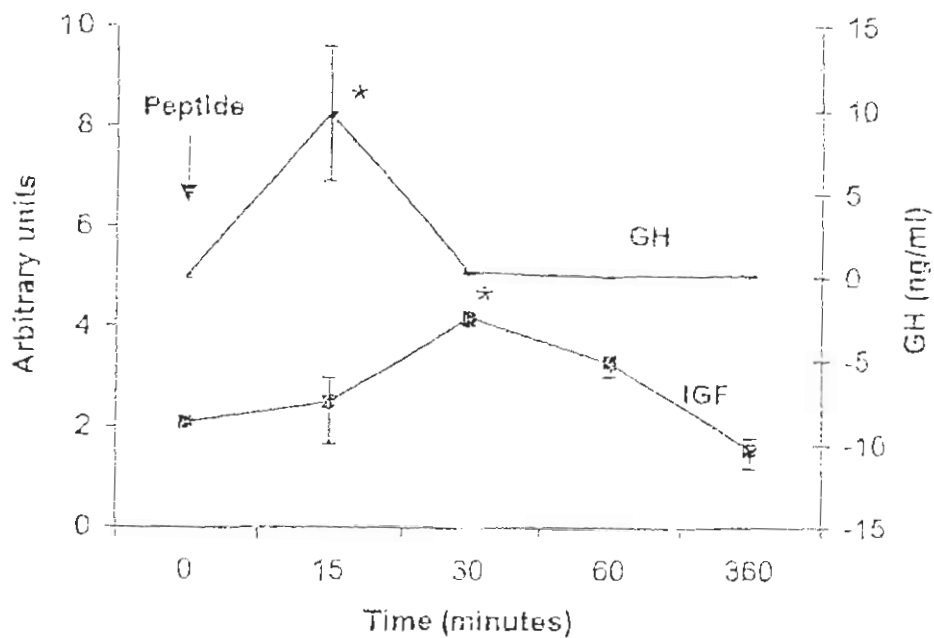
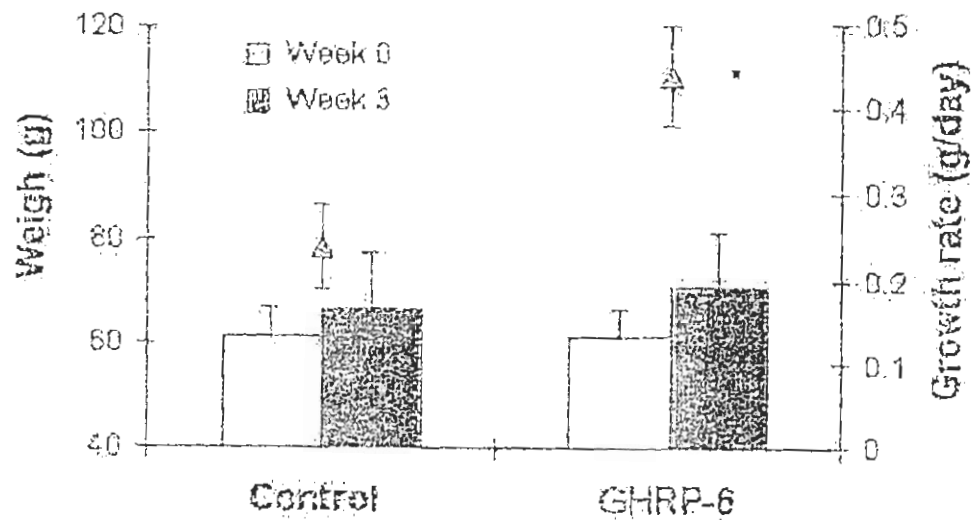


Figura 2. Clear and specific growth of the tilapias treated with the peptido GHRP-6 by intraperitoneal route and a control group for three weeks. \*t-test  $p=0.029$ . Bars indicate the weight variations  $\pm$  the standard error (ES) and the triangles indicate the growth rate in both groups.



**Figura 3.** Effect on body weight and growth rate of GHRP-6 non encapsulated orally intubated in juvenile tilapia over a three week period. \*Significantly different from the control group ( $p= 0.015$ , Multiple Range Test) Bars indicate standard error. Triangle indicate the mean growth rate.

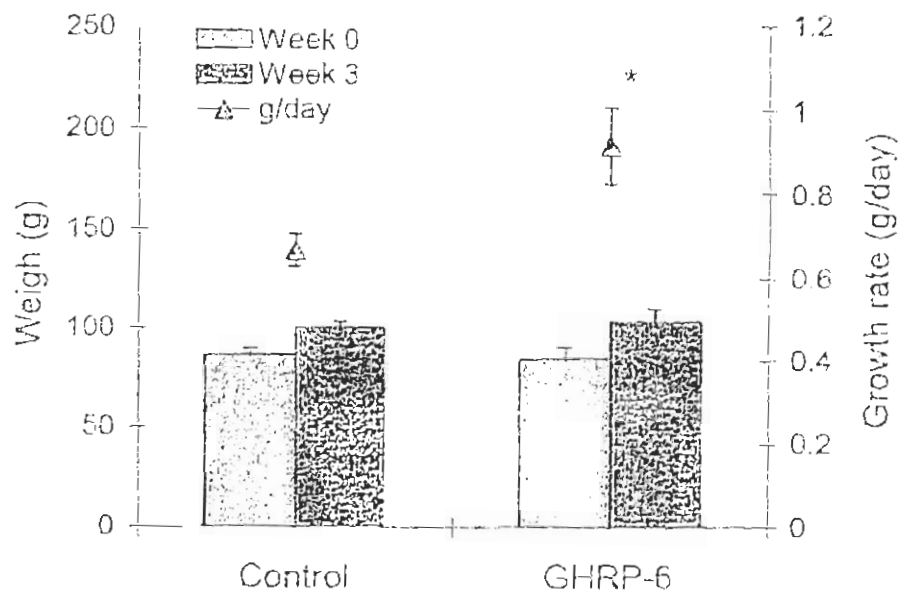


Figure 4. Effect in juvenile tilapia over a three-week period treated orally with GHRP-6 encapsulated on body weight and growth rate. \* Significantly different from the control group ( $p= 0.007$ , Multiple Range Test) Bars indicate standard error. Triangle indicates the mean growth rate.

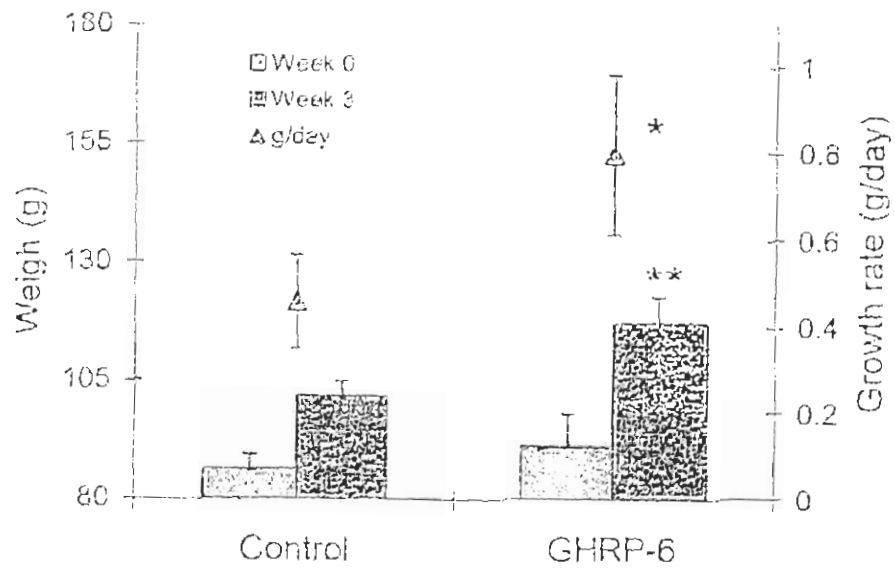


Figure 5. Growth promoting activity of GHRP-6 in shrimp *Litopenaeus schmitti* treated with GHRP-6 by immersion

A: Increase of weight in milligrams of the three groups treated with the GHRP-6 and the control group. B: Increase of size in millimeters of the three groups treated with the GHRP-6 and the control group. C: Absolute frequency distribution of the gill ramifications of the three groups treated with the GHRP-6 and the control group. D: Absolute frequency distribution of the rostral bone of the three groups treated with the GHRP-6 and the control group. Groups I, II and III were treated with different doses of the peptide. Control: Group treated with BSA. \*\*\*  $p < 0.001$ . Bars indicate standard error ( $\pm DS$ ). ANOVA follow by a DUNCAN test were applied for the statically calculation of the difference in weigh and size. Kolmogorov-Smmimov was applied to rostral bone and gill ramifications.

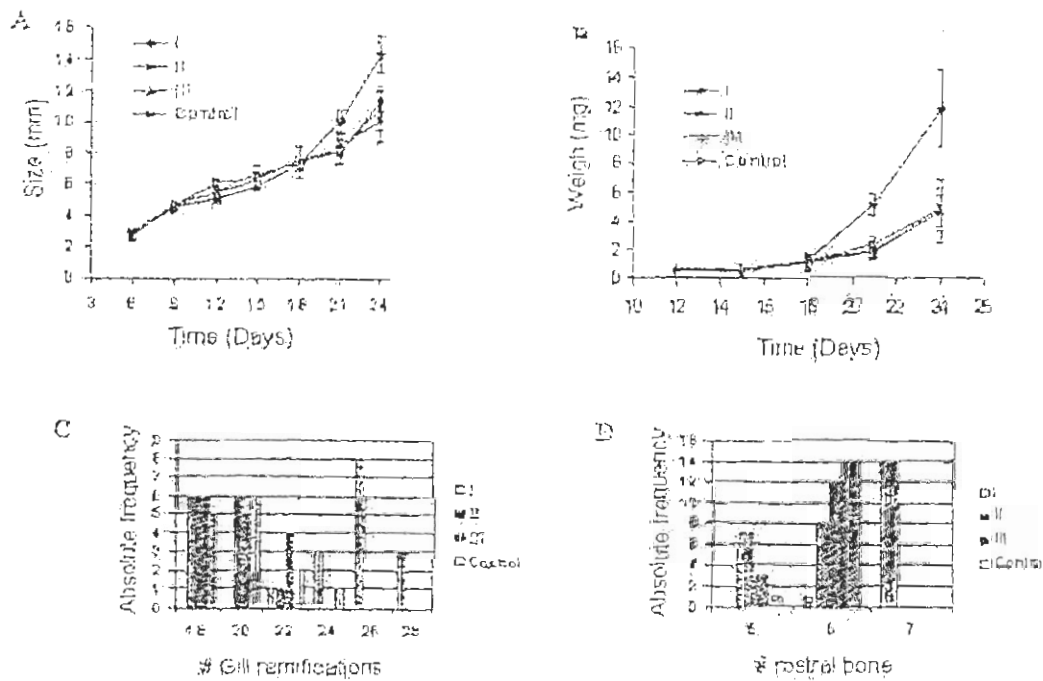


Figure 6. Dry weigh of the shrimp treated with the GHRP-6 and the control group.

\*\*\* t-test  $p < 0.001$ . Bars indicate standard error

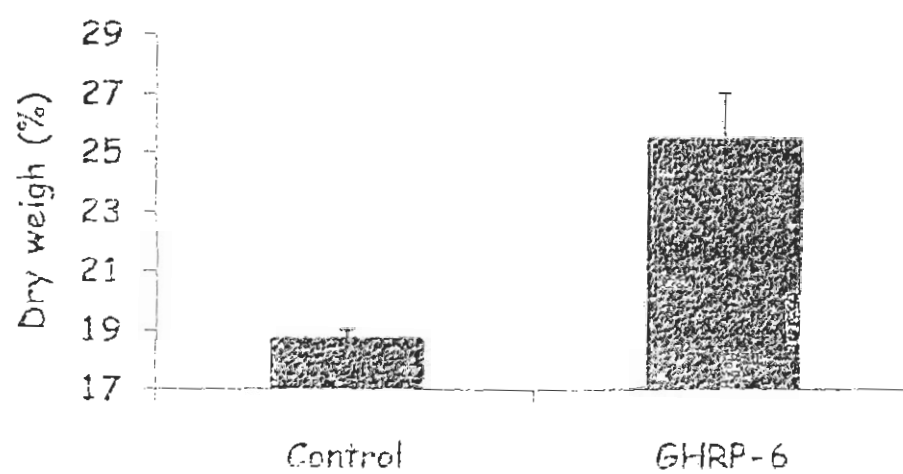


Figura 7. Relation between RNA, protein and DNA of the shrimp treated with the GHRP-6 and the control group. The statistical difference show the hypertrophy promoted by peptide in comparison on the control group. \*\*\* *t-test*  $p < 0.001$ . Bars indicate standard error.

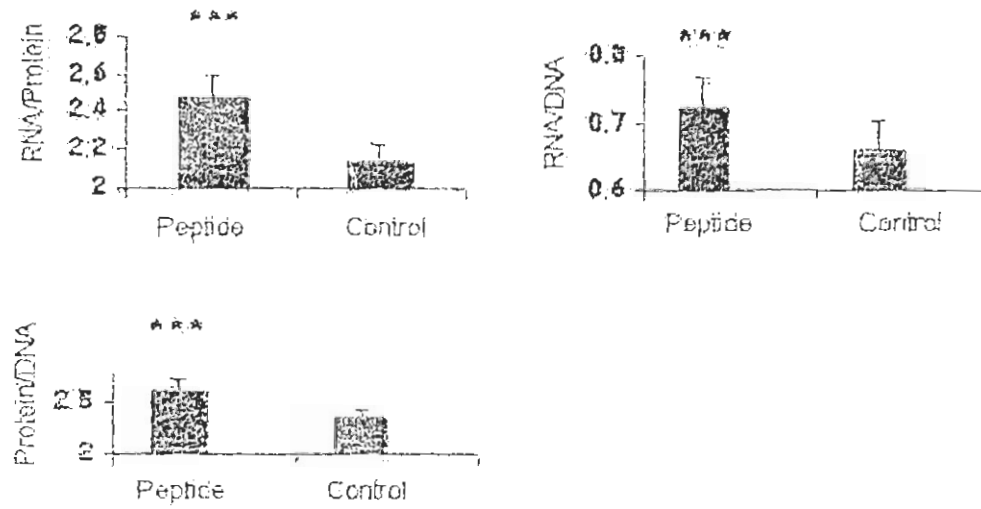


Figure 8. Growth rate of larvae shrimp *Litopenaeus schmitti* in production conditions treated with GHRP-6 by immersion. The control group received BSA. The experiment was follow by six week. \*\*\* t-test  $p < 0.001$ . Bars indicate standard error

