

DETERMINATION OF ARGinine VASOTOXIN (AVT) AND  
ISOTOXIN (IT) IN CARP (*Hampala macrolepidota*)  
PLASMA IN TWO DIFFERENT SALINITY CONDITION

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CONDITION

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Laporan ini dikemukakan sebagai memenuhi keperluan untuk mendapatkan Ijazah  
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Adalah dengan ini disahkan bahawa laporan penyelidikan yang bertajuk :  
DETERMINATION OF ARGININE VASOTOCIN (AVT) AND ISOTOCIN (IT) IN  
CARP (*Hampala macrolepidota*) PLASMA IN TWO DIFFERENT SALINITY  
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Laporan ini dikemukakan kepada Jabatan Sains Samudera sebagai memenuhi  
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## **ABSTRAK**

Arginine Vasotocin (AVT) dan Isotocin (IT) adalah dua nonapeptida yang dikeluarkan oleh hypothalamus pada ikan teleost. Dalam kajian ini, dua eksperimen telah dilakukan ke atas hormone-hormon ini. Pertamanya adalah untuk menentukan kehadiran hormon AVT dan IT pada ikan Kap dan yang kedua adalah untuk menentukan paras hormone AVT dan IT pada ikan Kap dalam dua keadaan saliniti yang berbeza. Daripada keputusan didapati bahawa terdapat hormone AVT dan IT dalam plasma ikan Kap. Daripada graf salinity pula dapat disimpulkan bahawa paras AVT dan IT berkadar terus dengan salinity iaitu paras AVT dan IT meningkat dengan meningkatnya salinity. Selain itu, hormone AVT dan IT juga memainkan peranan dalam osmoregulasi ikan.

## **ABSTRACT**

Arginine Vasotocin (AVT) and Isotocin (IT) are two nonapeptides produced in hypothalamic neurosecretory neurons in teleost fish. There were two experiments conducted to these two hormones in this research. First is determination of AVT and IT in Carp plasma. The second experiment is the determination of AVT and IT levels in Carp in two different salinity conditions. Result shows that AVT and IT levels increase due to the increasing salinity. These hormones also play a role in fish osmoregulations.