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ABSTRACTS

- **Increasing Aquaculture Productivity**
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**A PRELIMINARY STUDY OF PHYLOGENETIC RELATIONSHIPS OF THE 'Labeoin'
GROUP OF FISHES REVIEWED BY MITOCHONDRIAL 16S rRNA SEQUENCES**

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The Labeoin is a group of fishes commonly found in Malaysia and throughout Southeast Asian region. However, controversy still remains regarding the taxonomy of this group. Phylogenetic relationships among four species within this group namely *Labio barbatus festivus*, *L. leptocheilus*, *Osteochilus hasselti* and *O. vittatus* were well resolved based on DNA sequencing of the 16S rRNA mitochondrial gene. Neighbor joining and parsimony analyses conducted using PAUP* Version 4.0b10 showed that most of the specimens were classified accordingly to their species except one specimen of *O. vittatus* which was isolated from its own cluster suggesting that this sample was misidentified at the early stage and it might be a new species. Taking these findings into consideration, misidentification and wrong classification could be detected. Finally, it is hoped that this findings will contribute towards the correct taxonomic status of this group.