

THE TAXONOMY AND DIVERSITY OF FRESHWATER SHRIMPS
COLLECTED FROM SEVERAL LOCATIONS IN PENINSULAR
MALAYSIA

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**THE TAXONOMY AND DIVERSITY OF FRESHWATER SHRIMPS
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By

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**JABATAN SAINS BIOLOGI
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**PENGAKUAN DAN PENGESAHAN LAPORAN
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Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk: THE TAXONOMY AND DIVERSITY OF FRESHWATER SHRIMPS COLLECTED FROM SEVERAL LOCATIONS IN PENINSULAR MALAYSIA oleh Manjeri a/p Gnanasegaram no. matrik: UK 8399 telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Biologi sebagai memenuhi sebahagian daripada keperluan memperoleh ijazah Sarjana Muda Sains Gunaan - Pengurusan dan Pemuliharaan Biodiversiti, Fakulti Sains dan Teknologi, Kolej Universiti Sains dan Teknologi Malaysia.

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TAKSONOMI DAN KEPELBAGAIAN UDANG AIR TAWAR DI BEBERAPA LOKASI DI SEMENANJUNG MALAYSIA

ABSTRAK

Satu kajian telah dijalankan ke atas taksonomi dan diversiti udang air tawar di Semenanjung Malaysia daripada spesimen yang telah diperolehi dari Terengganu, Pulau Pinang, Kedah, Perak dan Johor. Spesimen hidup dan spesimen terawet telah dikaji dengan teliti. Hasil daripada kajian ini, 14 spesis udang air tawar telah dikenalpasti dan didapati berasal daripada famili Atyidae (sembilan spesis) dan famili Palaemonidae (lima spesis). Antara spesis yang telah diperolehi ialah *Macrobrachium ahkowi*, *Macrobrachium forcipatum*, *Macrobrachium idae*, *Macrobrachium malayanum*, *Macrobrachium meridionalis*, *Macrobrachium neglectum*, *Macrobrachium nipponense*, *Macrobrachium rosenbergii*, *Macrobrachium scabriculum*, *Atyopsis moluccensis*, *Caridina celebensis*, *Caridina elongapoda*, *Caridina gracilirostris* dan *Caridina peninsularis*. Menerusi kajian ini, dapat difahami bahawa *Macrobrachium idae* merupakan spesis udang air tawar yang dominan daripada famili Palaemonidae dan paling banyak ditemui. Sementara itu, *Atyopsis moluccensis* adalah spesis udang air tawar yang terbanyak dari famili Atyidae. Hasil daripada kajian ini menunjukkan bahawa sungai-sungai di Semenanjung Malaysia mempunyai diversiti spesis udang air tawar yang tinggi. Satu kekunci telah disediakan untuk udang air tawar di Semenanjung Malaysia.

ABSTRACT

A study on the taxonomy and diversity of freshwater shrimps in Peninsular Malaysia was carried out based on specimens collected from Terengganu, Penang, Kedah, Perak and Johor. Both fresh and museum specimens of freshwater shrimps were examined. Based on this study, 14 species of freshwater shrimps that were identified belong to the family Atyidae (five species) and family Palaemonidae (nine species). Among the species found are *Macrobrachium ahkowi*, *Macrobrachium forcipatum*, *Macrobrachium idae*, *Macrobrachium malayanum*, *Macrobrachium meridionalis*, *Macrobrachium neglectum*, *Macrobrachium nipponense*, *Macrobrachium rosenbergii*, *Macrobrachium scabriculum*, *Atyopsis moluccensis*, *Caridina celebensis*, *Caridina elongapoda*, *Caridina gracilirostris* and *Caridina peninsularis*. This study has showed that *Macrobrachium idae* from the family Palaemonidae is the most common and highly abundant species. Meanwhile, *Atyopsis moluccensis* is the most abundant species that belongs to the family Atyidae. Based on this study, it is clearly visible that the water bodies of Peninsular Malaysia have a diverse species of freshwater shrimps. A key guide to shrimps of Peninsular Malaysia is prepared.