

Eka Sunarwidhi Prasedya^{1,2}

Phaik-Eem Lim^{1,2}

Ji Tan^{1,2}

Siew-Moi Phang^{1,2}

H. Sunarpi³

¹*Institute of Ocean and Earth
Sciences, University of Malaya,
50603 Kuala Lumpur*

²*Institute of Biological Sciences,
University of Malaya, 50603 Kuala
Lumpur*

³*Faculty of Science and
Mathematics, Mataram University,
Lombok, Indonesia*

A24. Phylogenetic relationships of *Kappaphycus* and *Euचेuma* cultivated in Indonesia

Kappaphycus and *Euचेuma* are the two main Rhodophytes used for the commercial production of carrageenan. According to Phang *et al.*, 2010, the total production of carrageenan from the Coral Triangle amounted to 200,000 MT in year 2007 and the three main leading countries producing carrageenan are Indonesia, Philippines and Malaysia. The cultivated *Kappaphycus* and *Euचेuma* in Indonesia are not Indonesian in origin and are believed to have been brought in from the Philippines. The production of *Kappaphycus* and *Euचेuma* in Indonesia as a raw material for carrageenan production is increasing in recent years and currently the country has become the main producer in the world. However, there is as yet any study on the two species and their varieties cultivated in Indonesia. Hence, this study attempts to identify the cultivated species and varieties of *Kappaphycus* and *Euचेuma* from Indonesia based on *cox2-3* spacer.