

Thesis Title                      Ecological Study on *Acrostichum aureum* of Mangrove  
Forest in Samut Prakan Province  
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## ABSTRACT

Mangrove forest of Samut Prakan Province remains in a small strip between Sukhumvit Road and shoreline from Ban Khlong Saen Suk to Ban Khlong Dan. Mangrove area has been decreasing continuously due to expansion of shrimp farms, urbanisation and industrial development.

The important mangrove species found are *Avicennia*, *Rhizophora*, *Sonneratia*, *Hibiscus*, *Thespesia*, *Acanthus*, and *Nypa*. *Avicennia* covers a large area along the coastal line.

*A. aureum* is an important species which dominates typically in inland area and so-called "A. aureum zone". The *A. aureum* zone, *A. aureum* distributes densely at Ban Bang Mek Kloa (47 stems/400 m<sup>2</sup>) where the environmental factors are: salinity 25 ppt, moisture content 30%, organic matter 14%, and 52% clay.

The experiments on *A. aureum* regeneration both in the field and pot show different result depending on environmental factors including soil, water and sunlight.

Finally, this basic knowledge and information on the "Ecology of *A. aureum* Samut Prakan Province" will be useful for ecological study, mangrove forest plantation and management, and *A. aureum*'s conservation and propagation.