

THESIS TITLE : STUDIES ON DEVELOPMENT OF MEGASPORE AND
MEGAGAMETOPHYTE OF 20 CYPERACEOUS SPECIES IN
NORTHEASTERN THAILAND

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ABSTRACT

Developmental studies of megaspore and megagametophyte of 20 species of Cyperaceae in northeastern Thailand by clearing technique reveal that megagametogenesis conforms to Polygonum type. The ovule structures can be used for classification to tribes and genera such as shape of nucellus and arrangement of nucellus cells, number of parietal tissue layers in each stages of development, pattern of tetrads arrangement, shape and size of embryo sac, arrangement of cells and nuclei in embryo sac, presentation and position of hypostase before fertilization, obturators and inner integument in micropylar region. Ovule size of each studied species recognized its stage of development.