

## Phylogeny of the genus corchorus (Malvaceae S.L.) and diversity analyses in selected species



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***(Alayna Kuphal)***

## PHYLOGENY OF THE GENUS *CORCHORUS* (MALVACEAE S.L.) AND DIVERSITY ANALYSES IN SELECTED SPECIES



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Cuvillier Verlag Nov 2011, 2011. Buch. Book Condition: Neu. 210x147x9 mm. Neuware - This dissertation focuses on the molecular systematic analysis of the genus *Corchorus* (Malvaceae s.l.), investigated for the first time using nuclear rDNA ITS sequences, and addresses diversity of selected species, which were conducted using morphological, molecular, and flow cytometry methods. Prior to this study, little information was available regarding the biodiversity and potential use of jute (*Corchorus* species) in Ethiopian agriculture. The present study summarizes species' ecological distribution, use, and ethnobotany of *Corchorus* species in Ethiopia. About 13 species were recorded, ranking the country second in the total number of species in Africa. The study revealed low similarity in species composition between the regional states, indicating that each region has its own unique set of species. Farmers' perception, indigenous knowledge and folk taxonomy of jute species are more comprehensive in the southwest than other studied regions of the country. Although several jute species are found in Ethiopia, they are neither cultivated nor popularly used as leafy vegetables. This part of the dissertation emphasizes the need for creating of public awareness of jute in Ethiopian agriculture and recommends conservation measures for some threatened species. In addition to the species collected from Ethiopia, I included several other jute species in order to infer the phylogenetic relationships within the genus *Corchorus*. A molecular phylogenetic analysis was conducted using sequences of the nuclear ribosomal DNA internal transcribed spacer region (ITS) for 144 accessions representing about 48 species from entire pantropical distribution of the genus. In all phylogenetic analyses (maximum likelihood, Bayesian approaches, maximum parsimony), *Corchorus* is monophyletic when *Pseudocorchorus* is included. The majority of African *Corchorus* species formed a statistically highly supported and distinct clade separated from the rest of pantropically-distributed species. Species from Australia, New Caledonia and tropical America were...

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