## Taxonomic consideration and Ecological Characteristics of Xylariaceae

Yang-Soo Lee and Sang-Sub Han
Faculty of Forest Science, College of Agriculture and Life Sciences, Chonbuk National
University, Chonju, Chonbuk 561-756, Korea

The Xylariaceae Tul. & C. Tul is a family of sphaeriaceous genera with obscure but apparently common ancestry (Rogers, 1979). A central core of genera - Xylaria, Hypoxylon, Rosellinia, Poronia, Podosordaria, Hypocopra, Daldinia, Biscogniauxia, Kretzschmaria, Camillea, Penzigia - are obviously related, regardless of the fact that the generic limits are arguable (Rogers, 1979; Barr, 1990; Eriksson & Hawksworth, 1991; Laessoe, 1994). In general, the family Xylariaceae is primarily defined as a group of stromatic pyrenomycetes with unitunicate asci characterized by a typical apical apparatus and pigmented ascospores naving a germ slit (Rogers, 1979). Since Winter (1887) circumscribed the family to include Pyrenomycetes with predominately a dark stroma, dark unveiled spores containing 5 genera: Nummularia Tul. & C. Tul., Hypoxylon Bull., Ustulina Tul. & C.Tul., Poronia Willd. and XylariaHill ex Schrank, many more genera has been added to the family (Dennis, 1961; Eriksson & Hawksworth, 1993; Whalley, 1996). In the absence of a clear circumscription of the family (Rogers, 1994) the agreed number of accepted genera is governed by individual views and there are therefore difference between the proposals for the ascomycetes recognized 35 genera and indicated a further 3 which might belong there. Laessoe reviewed the family and included 37 genera but a few of these were listed as uncertain (Laessoe, 1994). In the most recent accounts Whalley (1996) listed 41 genera but again a number of these were considered uncertain and Ju and Rogers (1996) accepted 39 genera in their interpretation of the family. Since Laessoe (1994) merged Daldinia and Versiomyces with Hypoxylonand Ju and Rogers (1996) combined Astrocystis with Rosellinia and Helicogermslita, which can be argued strongly against, it is likely that a realistic number of genera will be close to 40 (Whalley, 1996; Table 1).