



Figure S1. Maximum likelihood tree inferred from subsampled ITS sequences of specimens of *Cystolepiota* and related genera. Bootstrap values of $ML \geq 50\%$ are indicated above the branches. Type collections are marked with an asterisk. *C.* = *Cystolepiota*; *Co.* = *Coprinus*; *E.* = *Echinoderma*; *L.* = *Lepiota*; *M.* = *Melanophyllum*; *P.* = *Pulverolepiota*; *S.* = *Smithiomyces*. *Co. comatus* and *Co. sterquilinus* are used as outgroup.