**Electronic Supplementary Material**

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**Fig. 1** Proportion of ITS1-5.8S-ITS2 rDNA sequences from clone libraries that were classified at the order (a) and genus levels (b). Sequence classification was based on BLASTn results. HCBg-SB - *Hoffmannseggella cinnabarina* from the Serra do Brigadeiro State Park (granitic inselberg); HCBc-FF - *Hoffmannseggella cinnabarina* from a ferriferous formation (*canga*); HCC-FF - *Hoffmannseggella caulescens* from a ferriferous formation (*canga*); HJ-SB - *Hadrolaelia jongheana* from the Serra do Brigadeiro State Park (Semideciduous Seasonal Forest)
**Fig. 2** Phylogenetic relationships of uncultured fungi ITS sequences from orchid species roots. The numbers on the branches indicate the *a posteriori* probability obtained by Bayesian likelihood (only values exceeding 50% are shown). The tree was rooted with *Olpidium brassicae*. HCB1 - clones obtained from the HCBg-SB library; HCB2 - clones from HCBc-FF; HC - clones from HCC-FF; HJ - clones from HJ-SB. The numbers in parentheses after the clone names represent the sequence number for this specific clone library. GenBank accession numbers are listed after species names. HCBg-SB - *Hoffmannseggella cinnabarina* from the Serra do Brigadeiro State Park (granitic inselberg); HCBc-FF - *Hoffmannseggella cinnabarina* from a ferriferous formation (*canga*); HCC-FF - *Hoffmannseggella caulescens* from a ferriferous formation (*canga*); HJ-SB - *Hadrolaelia jongheana* from the Serra do Brigadeiro State Park (Semideciduous Seasonal Forest)