

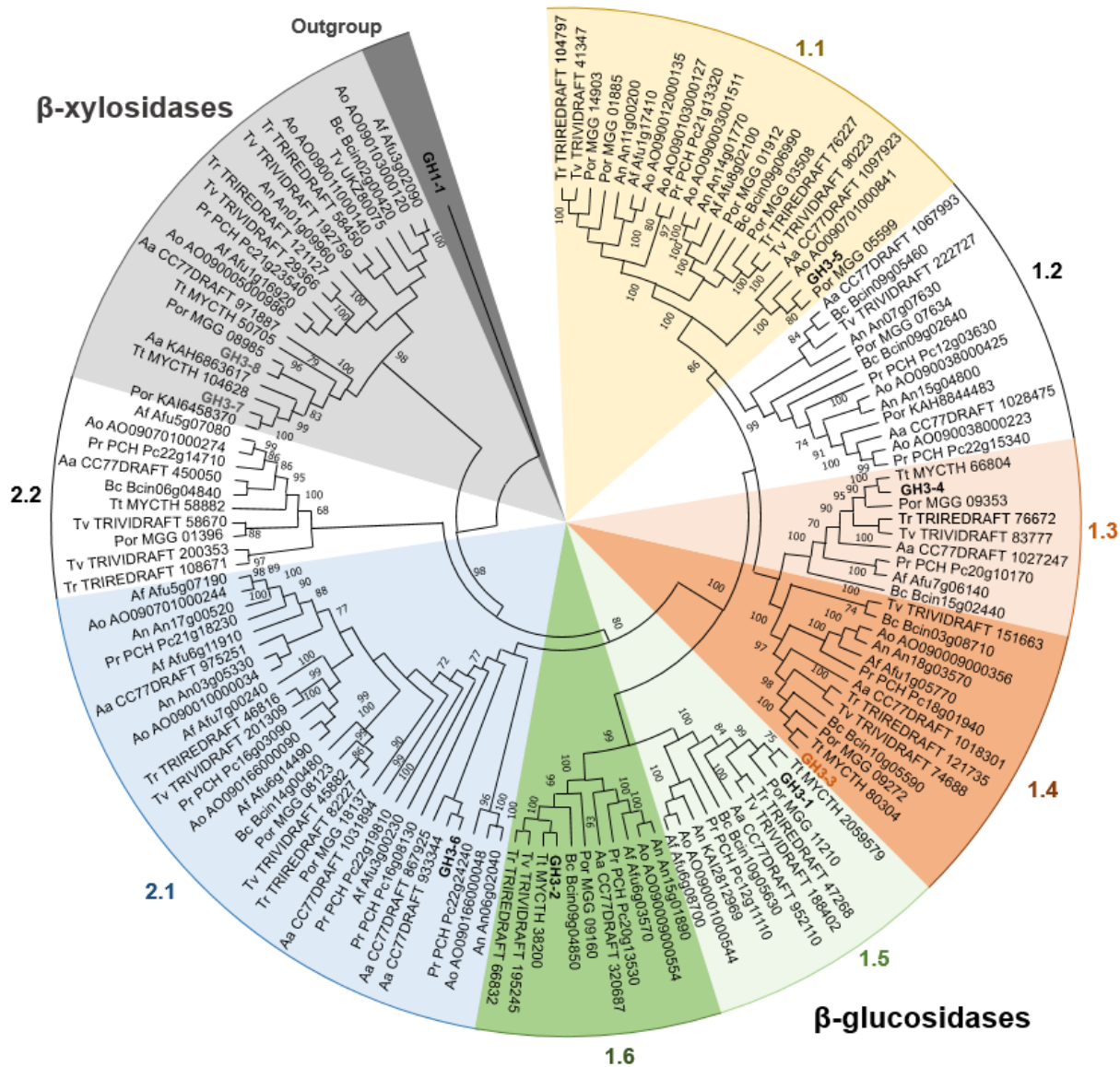


Fig. S1. Phylogenetic analysis of GH3 family protein with β -glucosidases and β -xylosidases from various filamentous fungi. The unrooted neighbor-joining tree was created with MEGA11. NCBI accession numbers are indicated. *N. crassa* GH3-3 is shown in brown bold. The other *N. crassa* β -glucosidases are shown in bold. GH3-7 and GH3-8 (grey bold) are β -xylosidases from *N. crassa*, and clustered with β -xylosidases from other fungi. The β -glucosidase GH1-1 (of the GH1 family) was used as an outgroup. Bootstrap values above 70 and supporting a node used to define a cluster are indicated.