

## I. List of tables

Table 3.1 DASH complex proteins in <i>M. oryzae</i> .....	66
Table 3.2 Strains developed in the study.....	96
Table 3.3 Primers used in the study.....	97
Table 4.1 Genes involved in conidiation in <i>M. oryzae</i> .....	129

## II. List of figures

Figure 3.1: Multiple sequence alignment of Dam1 proteins.....	67
Figure 3.2: Multiple sequence alignment of Ask1 proteins.....	69
Figure 3.3: Phylogenetic tree of fungal Dam1 proteins.....	71
Figure 3.4: Phylogenetic tree of fungal Ask1 proteins.....	72
Figure 3.5: Generation of hH1-mCherry tagged strain by SRR.....	74
Figure 3.6: Generation of <i>DsRed-DAM1</i> tagged strains.....	76
Figure 3.7: Generation of <i>GFP-DAM1</i> tagged strains.....	78
Figure 3.8: Generation of Ask1-DsRed tagged strain.....	80
Figure 3.9: Strategy for generation and confirmation of Ask1-GFP tagged strains.....	81
Figure 3.10: Generation of MIS12-GFP tagged strain.....	84
Figure 3.11: Generation of tubulin-GFP tagged strain via ectopic integration.....	86
Figure 3.12: Generation of <i>KU80</i> deletion strain, <i>ku80Δ</i> .....	89
Figure 3.13: Knock-down transformants of kinetochore genes.....	91
Figure 3.14: Generation of <i>dam1Δ</i> strains.....	92
Figure 3.15: Generation of <i>ask1Δ</i> strain.....	93
Figure 3.16: Complementation of <i>dam1Δ</i> strain with GFP tagged <i>DAM195</i>	
Figure 4. 1: Subcellular localisation of kinetochore proteins during interphase.....	102
Figure 4.2: Mis12 is associated with the nucleus during interphase.....	104
Figure 4.3: Cytoplasmic localisation of GFP-Dam1 in conidia.....	106
Figure 4.4: Outer kinetochore protein Dam1 associates with the nucleus during mitosis.....	107
Figure 4.5: Dam1 associates with the nucleus at mitotic onset in <i>M. oryzae</i> during appressorium development.....	109