



Figure S1 The proline catabolism-associated genes are located in a cluster on a single chromosome in *A. nidulans*, however in *S. cerevisiae* and *C. neoformans*, the genes are unlinked and located on different chromosomes. *prnA* encodes the pathway-specific transcription factor of *prn* expression, *prnD*, *PUT1* and *PUT5* encode proline oxidase, *prnB* and *PUT4* encode the proline-specific permease, while *prnC* and *PUT2* encode P5C dehydrogenase. The multiple candidates of proline permease-encoding genes in *C. neoformans* are designated using the Broad Institute annotations.