Additional File 27. Maximum likelihood rooted phylogeny of the FCY-like transporters of the aspergilli and some penicillia. The tree, shown in cartoon form, shows the distribution of orthologs of the different *A. nidulans* FCY paralogues [1]. The orthologs within the aspergilli, showing an amino acid identity >60% and synteny, are called accordingly with the degree of identity with the different *A. nidulans* paralogs shown in green lettering (e.g. all aspergilli have FcyB transporters). Homologs sharing ~50-60% identity with an *A. nidulans* protein are named with the same letter followed by a number (e.g. FcyE2 are proteins sharing 55-58% identity with FcyE of *A. nidulans*). Homologs with lower identities (in the range 25-45%) are named with a number (e.g. Fcy1, Fcy2, Fcy3 in *A. wentii*). Sequences of uncharacterized proteins from other organisms (*Penicillium* and *Talaromyces*) are shown with the name of the organism plus the accession number in the JGI MycoCosm database. The paralogues of *S. cerevisiae* are included, denoted with the specific gene name. Characterized transporters (including *A. nidulans* FcyB) [2] are shown in red lettering. Values at nodes are aLTRs (approximate likelihood ratio test) [3].