



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].

- 1. Krypotou E, Scazzocchio C, Diallinas G: Functional characterization of NAT/NCS2 proteins of Aspergillus brasiliensis reveals a genuine xanthine-uric acid transporter and an intrinsically misfolded polypeptide. *Fungal Genet Biol* 2015, **75:**56-63.
- 2. Vlanti A, Diallinas G: The Aspergillus nidulans FcyB cytosine-purine scavenger is highly expressed during germination and in reproductive compartments and is downregulated by endocytosis. *Mol Microbiol* 2008, **68**:959-977.
- 3. Anisimova M, Gascuel O: Approximate likelihood-ratio test for branches: A fast, accurate, and powerful alternative. *Syst Biol* 2006, **55**:539-552.