Supplemental Materials for "Distinct Ceramide Synthases Regulate Polarized Growth in the Filamentous Fungus \textit{Aspergillus nidulans}\textsuperscript{D}" \\

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Supplemental Material

The following supporting material pertains to the above article:

Supplemental Figure 1

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**Figure 1** - *barA* mutants are resistant to the effects of HPLC-purified HSAF. Top row; purified HSAF inhibits the growth of wildtype hyphae in a dose-dependent manner. Bottom row, *barA1* mutants display equal growth at all tested doses of purified HSAF. Indicated doses represent dilutions of HPKLC-purified HSAF.

**Figure 2** (next page) - Alignment of Lag1 homologues. A multiple alignment was generated using ClustalW (MacVector v7.0). Identities are outlined in dark shaded boxes and similarities in light shaded boxes. Protein sequences used for the alignment include: An BarA (*A. nidulans* BarA, accession number: EAA60493); An LagA (*A. nidulans* Lag1 homologue, accession number: EAA64170); Sc Lag1 (S. cerevisiae Lag1p, accession number: UO8133); Sc Lac1 (S. cerevisiae Lac1p, accession number: NP_012917); and Hs Lag1 (*Homo sapiens* Lag1p homologue, accession number: BC032565). * indicates locations of nonsense mutations in *barA* mutants. The circled * indicates the *barA1* mutation.
Figure 3 - Alignments of BasA homologues. A multiple alignment was generated using ClustalW (MacVector v7.0). Identities are outlined in dark shaded boxes and similarities in light shaded boxes. Protein sequences used for the alignment include: An BasA (A. nidulans BasA, accession number: XM_404777); Sc Sur2 (S. cerevisiae Sur2p, accession number: U07171); Hs SC4MOL (H. sapiens methyl oxidase-like protein, accession number: NM_006745). * indicates location of the mutation in basA1 mutant 8-145.
Figure 4 - Growth defects of lagA mutants. (A,B) Conidia from lagA deletion mutant ASL11 (A) and wildtype strain A28 (B) were germinated in YGV media for 12 h. (C,D) The lagA deletion mutant ASL11 (C) and wild type A28 (D) were incubated on MAG plates at 28°C for 10 days. Bar, 3 μm.