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Supplemental Materials for "Distinct Ceramide Synthases Regulate Polarized Growth in the Filamentous Fungus *Aspergillus nidulans*^D"

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Distinct Ceramide Synthases Regulate Polarized Growth in the Filamentous Fungus *Aspergillus nidulans*

Mol. Biol. Cell Li et al. 17: 1218

Supplemental Material

The following supporting material pertains to the above article:

Supplemental Figure 1

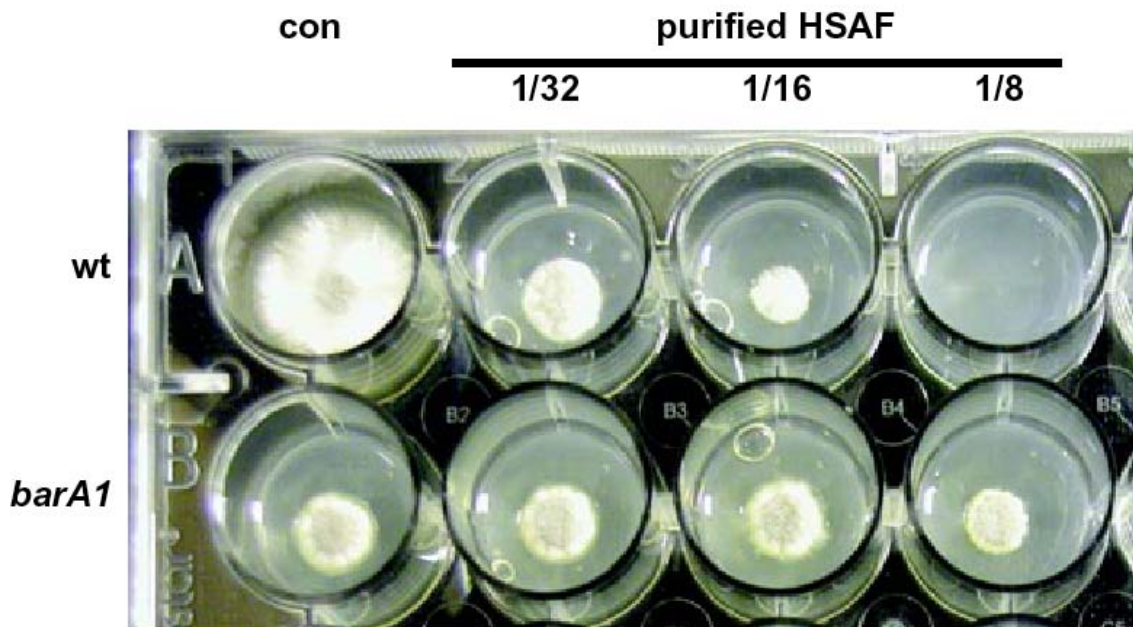
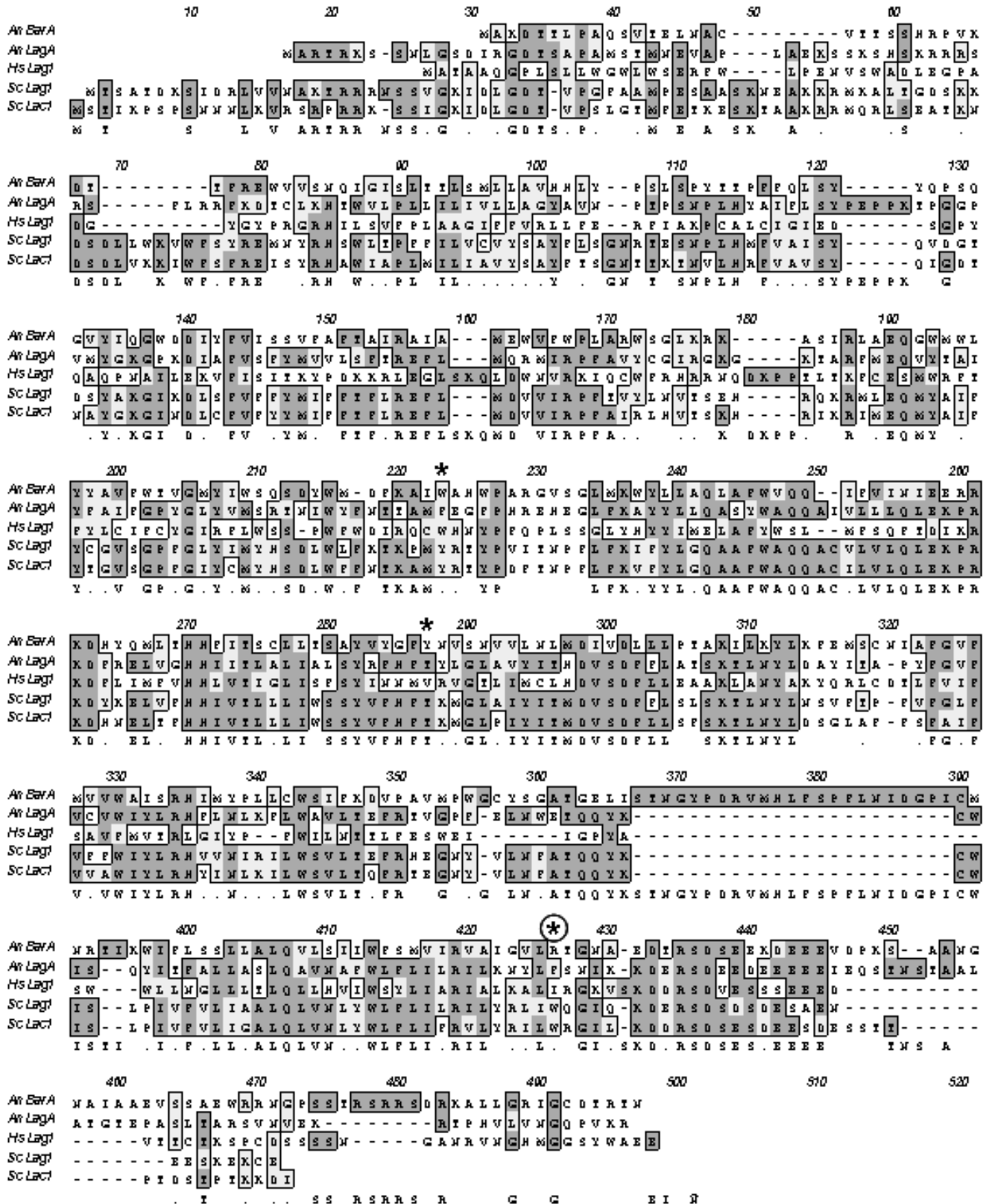


Figure 1 - *barA* mutants are resistant to the effects of HPLC-purified HSAF. Top row; purified HSAF inhibits the growth of wildtype hyphae in a dose-dependent manner. Bottom row, *barA1* mutants display equal growth at all tested doses of purified HSAF. Indicated doses represent dilutions of HPLC-purified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

Forward Alignment



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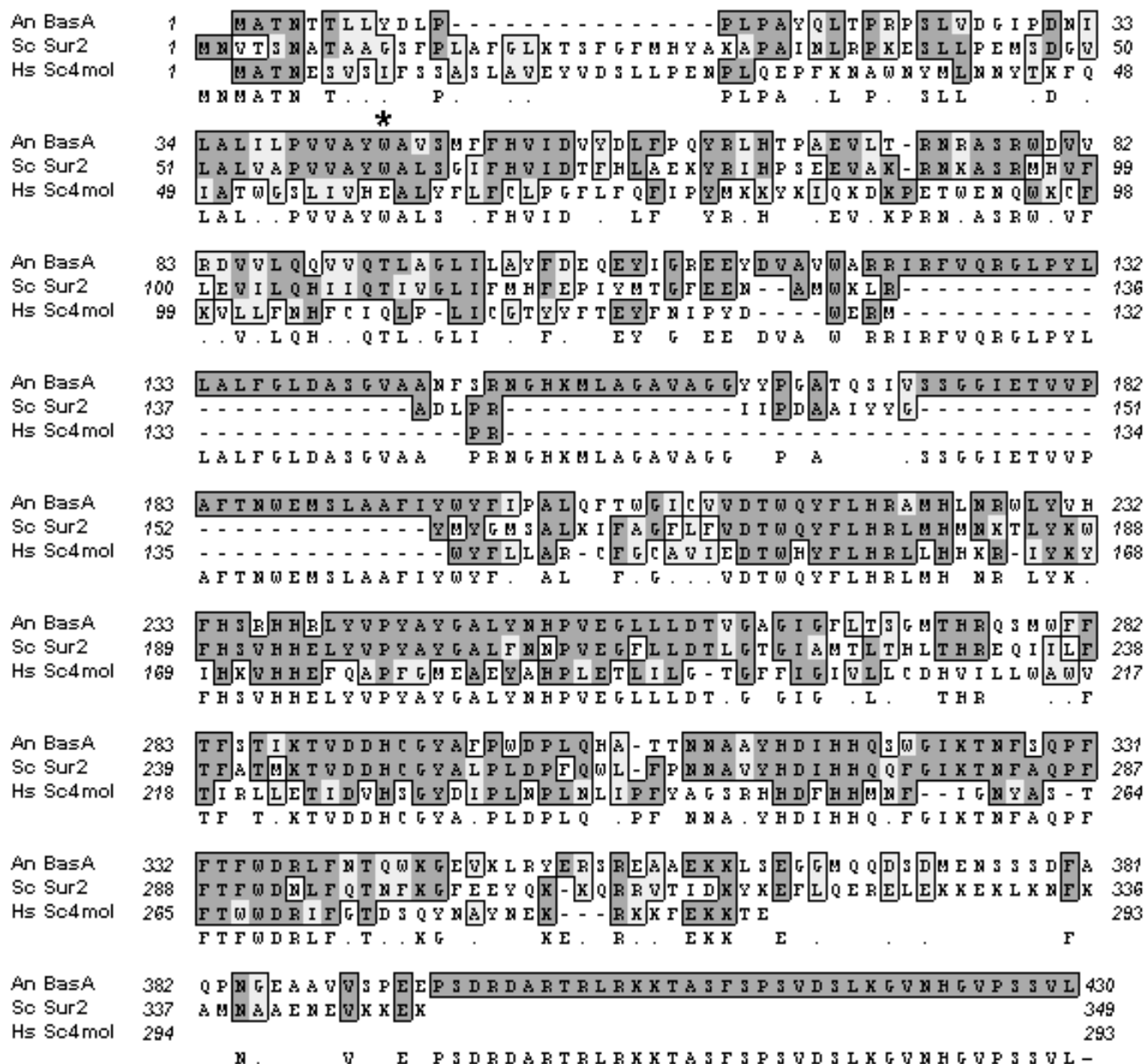


Figure 3 - Alignments of BasA homologues. A multiple alignment was generated using ClustalW (MacVector v7.0). Identities are outlined in dark shaded boxes and similarities in light shaded boxes. Protein sequences used for the alignment include: An BasA (*A. nidulans* BasA, accession number: XM_404777); Sc Sur2 (*S. cerevisiae* Sur2p, accession number: UO7171); Hs SC4MOL (*H. sapiens* methyl oxidase-like protein, accession number: NM_006745). * indicates location of the mutation in *basA1* mutant 8-145.

Supplemental Figure 4

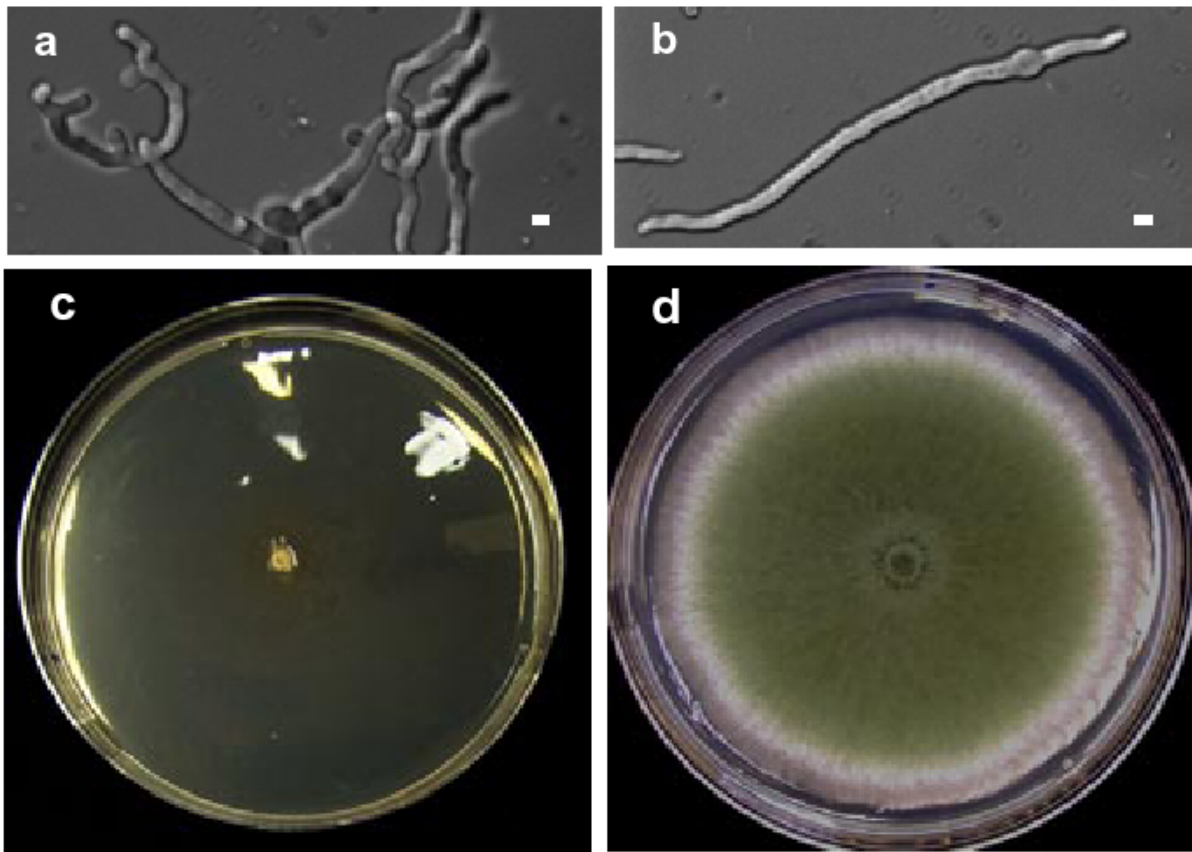


Figure 4 - Growth defects of *lagA* mutants. (A,B) Conidia from *lagA* deletion mutant ASL11 (A) and wildtype strain A28 (B) were germinated in YGV media for 12 h. (C,D) The *lagA* deletion mutant ASL11 (C) and wild type A28 (D) were incubated on MAG plates at 28°C for 10 days. Bar, 3 μ m.