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## **Heme biosynthesis and regulation in the filamentous fungus *Aspergillus niger***

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**Heme biosynthesis and regulation in  
the filamentous fungus  
*Aspergillus niger***

*Angelique Franken*



# **Heme biosynthesis and regulation in the filamentous fungus *Aspergillus niger***

**Proefschrift**

ter verkrijging van  
de graad van Doctor aan de Universiteit Leiden,  
op gezag van Rector Magnificus prof.mr. C.J.J.M. Stolker,  
volgens besluit van het College voor Promoties  
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klokke 15:00 uur

door

**Adriana Cornelia Wilhelmina Franken**

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in 1979

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Cover: *A. niger*  $\Delta$ *hemA* grown on MM containing hemin and ammonium

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*“ A journey of a  
Thousand miles  
Must begin with  
One single step”  
(Lao Tzu)*

*Voor mijn ouders*

