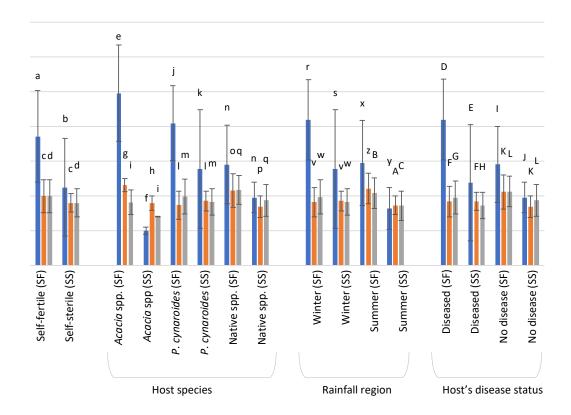
Growth, pathogenicity and sexual fertility of the African tree pathogen *Ceratocystis albifundus*

Danki VN, Steenkamp ET, De Vos L, Swalarsk-Parry BS, Dewing C, Fru F, Wilken PM, Mchunu NP, Wingfield BD, Wingfield MJ, Van der Nest MA

SUPPLEMENTARY MATERIAL Figure S1. Histograms representing mean mycelial growth at 25°C and 30°C, p. 2 as well as and mean lesion length for the self-fertile and self-sterile isolates of *C. albifundus* examined in this study. Table S1. Geographic origin and host of *C. albifundus* isolates screened for p. 3 growth rate and pathogenicity. Table S2. ANOVA results for seven separate datasets involving the p. 5 comparison of lesion length data obtained from the pathogenicity study on Acacia mearnsii using the Ceratocystis albifundus isolates examined, as well as comparisons involving pathogenicity and mycelial growth at 25°C and 30°C when isolates are grouped according to their original plant host species (i.e., Acacia species, various native hosts and Protea cynaroides). Table S3. Results of Student's t-tests for comparisons performed in this p. 6 study. Table S4. Results of correlation analyses between the respective continuous p. 7 and categorical variables examined in this study.



Supplementary Figure S1. Histograms representing mean mycelial growth at 25°C (orange) and 30°C (grey), as well as and mean lesion length (blue) for the self-fertile (SF) and self-sterile (SS) isolates of *C. albifundus* examined in this study. The isolates are grouped based on their host species, geographic origin, and whether they were isolated from healthy or diseased hosts. Bars represent standard deviation, while the different letters within each set of results indicate significant (P<0.05) differences between or among means (see Supplementary Table S3 for details of statistical analyses).

Supplementary Table S1. Geographic origin and host of *C. albifundus* isolates screened for growth rate and pathogenicity.

Number Status Host species Province Collector	Include:	Family			Defenses
CMW21146 SS Vachelia grandicornuta Limpopo Heath (2009) CMW21150 SS Senegalia nigrescens Limpopo Heath (2009) CMW21473 SF Nitulid beetle Gauteng Heath (2009) CMW21473 SF Nitulid beetle Gauteng Heath (2009) CMW22302 SF Brachypephus beetle Gauteng Heath (2009) CMW23823 SF Acacia mearnsii Mpumalanga Heath (2009) CMW23839 SF Terminalia sericea Limpopo Heath (2009) CMW37312 SF Terminalia sericea Mpumalanga Mbenoun et al. (2014) CMW37313 SF Combretum zeyheri Mpumalanga Mbenoun et al. (2014) CMW37949 SF Combretum zeyheri Mpumalanga Mbenoun et al. (2014) CMW40625 SF Protea cynaroides Western Cape Lee et al. (2016) CMW4075 SF Acacia mearnsii Kwa Zulu Natal Roux et al. (2001) CMW4084 SF Acacia mearnsii Kwa Zulu Natal Roux et al. (2001) CMW4090 SF Acacia mearnsii Kwa Zulu Natal Roux et al. (2001) CMW41550 SS Lannea schweinfurthii Mpumalanga DH Lee (FABI) CMW41551 SF Lannea schweinfurthii Mpumalanga DH Lee (FABI) CMW41580 SF Terminalia sericea Mpumalanga DH Lee (FABI) CMW41580 SF Terminalia sericea Mpumalanga DH Lee (FABI) CMW412100 SF Staphilinia beetle Western Cape AC Misse (FABI) CMW42100 SF Staphilinia beetle Western Cape AC Misse (FABI) CMW42103 SF Acacia melanoxylon Western Cape AC Misse (FABI) CMW42104 SF Acacia melanoxylon Western Cape AC Misse (FABI) CMW42105 SF Terminalia sericea Mpumalanga Lee et al. (2016) CMW42107 SF Acacia melanoxylon Western Cape AC Misse (FABI) CMW42108 SF Terminalia sericea Mpumalanga Lee et al. (2016) CMW42109 SF Terminalia sericea Mpumalanga Lee et al. (2016) CMW42107 SF Terminalia sericea Mpumalanga Lee et al. (2016) CMW42108 SF Terminalia sericea Mpumalanga Lee et al. (2016) CMW42109 SF Terminalia sericea Mpumalanga Lee et al. (2016) CMW42109 SF Protea cynaroides Western Cape Lee et al. (2016) CMW42109 SF Protea cynaroides Western Cape Lee et al. (2016) CMW42416 SF Protea cynaroides Western Cape Lee et al. (2016) CMW42420 SF Protea cynaroides Western Cape Lee et al. (2016) CMW42430 SF Protea cynaroides Western Cape Lee et al. (2016) CMW42431 SF Protea cynaroides Western Cape Lee et al.	Isolate Number ^a			Province	Reference or Collector
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CMW42446	SF	Protea cynaroides	Western Cape	Lee et al. (2016)
CMW42447	SF	Protea cynaroides	Western Cape	Lee et al. (2016)
CMW42450	SS	Protea cynaroides	Western Cape	Lee et al. (2016)
CMW42474	SS	Protea cynaroides	Western Cape	Lee et al. (2016)
CMW42476	SF	Protea cynaroides	Western Cape	Lee et al. (2016)
CMW42477	SF	Protea cynaroides	Western Cape	Lee et al. (2016)
CMW42478	SS	Protea cynaroides	Western Cape	Lee et al. (2016)
CMW43681	SF	Protea cynaroides	Western Cape	Lee et al. (2016)
CMW43682	SF	Protea cynaroides	Western Cape	Lee et al. (2016)
CMW43683	SF	Protea cynaroides	Western Cape	Lee et al. (2016)

^a All isolates are available from the CMW culture collection of the Forestry and Agricultural Biotechnology Institute (FABI) of the University of Pretoria.

^b Fertility status was scored based on the presence of absence of mating type gene MAT1-2-1, where isolates containing this gene were regarded as self-fertile (SF) and those lacking it as self-sterile (SS).

Supplementary Table S2. ANOVA^a results for seven separate datasets involving the comparison of lesion length data obtained from the pathogenicity study on *Acacia mearnsii* using the *Ceratocystis albifundus* isolates examined, as well as the comparisons involving pathogenicity and mycelial growth at 25°C and 30°C when isolates are grouped according to their original plant host species (i.e., *Acacia* species, various native hosts and *Protea cynaroides*).

Source of variance	Degrees of freedom	Sum of Squares	Mean Squares	F -value	P-value ^b
Lesion length Between-treatments	58	1.3 x 10 ⁷ 9.3 x 10 ³	564419 26442	21.3452	1.58 x 10 ⁻⁸⁴
Within-treatments Including all isolates, both sel	351 f-fertile an			-	-
		a con com			
Host species vs. Growth at 25 Between-treatments Within-treatments	2 51	598 3708	299 73	4.1220 -	0.0221 -
Host species vs. Growth at 30 Between-treatments Within-treatments	°C 2 51	330 4471	165 88	1.8839	0.1620
Host species vs. Lesion length Between-treatments Within-treatments	2 51	5917 40790	2758 799	3.6989 -	0.0316
Including only the self-sterile	isolates				
Host species vs. Growth at 25	°C				
Between-treatments Within-treatments	2 38	821 2708	410 71	5.7588 -	0.0066 -
Host species vs. Growth at 30 Between-treatments Within-treatments	°C 2 38	272 3128	136 82	0.6545	0.2050
Host species vs. Lesion length Between-treatments Within-treatments	2 38	7972 19274	3986 507	7.8591 -	0.0014

^a Conducted using the online statistical tools available at https://www.socscistatistics.com/tests/biserial/default.aspx and https://acetabulum.dk/anova.html.

b P-values that were significant at the 95% confidence level are indicated in bold.

^c To determine if the lesion length of the isolates differ significantly from control, all isolates and the control were included.

Supplementary Table S3. Results of Student's *t*-tests^a for comparisons performed in this study. The first set (A) involve those involving the lesion lengths obtained from a pathogenicity study on *Acacia mearnsii* and mycelial growth at 25°C and 30°C for the *Ceratocystis albifundus* isolates examined and grouped according to their reproductive status, diseases status of their original host and geographic origin. The second set (B) of comparisons involved those between the self-fertile and self-sterile isolates.

Groups compared	Treatment	<i>t</i> -value ^b	P-value ^c			
Set A: All isolates (self-fertile isolates only) vs defined groups						
Host's disease status (symptoms or no symptoms)	Growth at 25°C Growth at 30°C Lesion length	3.1358 (-3.1761) -1.2607 (-0.8335) 1.8349 (2.01422)	0.0136 (0.0014) 0.1063 (0.2046) 0.0359 (0.02514)			
Geographic origin (winter or summer rainfall region)	Growth at 25°C Growth at 30°C Lesion length	2.2311 (-2.9508) 0.1570 (0.8332) -3.9670 (3.8853)	0.0149 (0.0026) 0. 3412 (0.2047) 0.0001 (0.0002)			
Set B: Self-fertile vs self-sterile isc	lates for each define	ed group				
Host's disease status	Growth at 25°C	0.8310	0.2064			
(symptoms)	Growth at 30°C	-0.8833	0.1922			
	Lesion length	-3.6014	0.0006			
Host's disease status	Growth at 25°C	-2.2549	0.0168			
(no symptoms)	Growth at 30°C	-0.1171	0.4539			
	Lesion length	-1.6262	0.0588			
Geographic origin	Growth at 25°C	-0.0392	0.4845			
(winter rainfall region)	Growth at 30°C	-2.0650	0.0236			
	Lesion length	-2.6172	0.0066			
Geographic origin	Growth at 25°C	-0.0392	0.4845			
(summer rainfall region)	Growth at 30°C	-2.0650	0.0236			
	Lesion length	-2.6172	0.0066			
Host species	Growth at 25°C	-3.195	0.0121			
(non-native host)	Growth at 30°C	-1.5741	0.0882			
	Lesion length	-3.7911	0.0064			
Host species	Growth at 25°C	-0.7274	0.2366			
(commercial Protea)	Growth at 30°C	-0.7215	0.2379			
	Lesion length	-2.4135	0.0114			
Host species	Growth at 25°C	-1.803	0.0452			
(native host)	Growth at 30°C	-1.2279	0.1186			
	Lesion length	-1.5774	0.0671			

^a Conducted using the online statistical tools available at https://www.socscistatistics.com/tests/biserial/default.aspx.

^b The *t*-values in brackets were obtained when all self-sterile isolates were excluded from the analyses.

^c The P-values in brackets were obtained when all self-sterile isolates were excluded from the analyses. Those significant at the 95% confidence level are indicated in bold.

Supplementary Table S4. Results of correlation analyses^a between the respective continuous and categorical variables examined in this study.

Variable 1	Variable 2	Coefficient ^b	P-value ^c
Continues variable vs. Co	ntinues variable		
Mycelial growth at 25°C		0.6291 (0.6484)	< 0.00001 (00001)
Wiyeenar growth at 25 e	Wiyeenal growth at 30 C	0.0231 (0.0404)	(0.00001
Lesion length	Mycelial growth at 25°C	0.1229 (-0.0449)	0.3669 (0.7745)
	Mycelial growth at 30°C	0.1622 (0.0815)	0.2323 (0.6034)
Continues variable vs. Ca			
Lesion length	Fertility status	0.4674	0.00028
	Original host's disease status	0.2524 (0.3171)	0.0497 (0.0299)
	Geographic origin	0.46272 (0.5084)	0.0003 (0.0005)
Mycelial growth at 25°C	Fertility status	0.2952	0.0272
Wiyeenar growth at 25 c	Original host's disease status	-0.3646 (-0.4121)	0.0042 (0.0044)
	_		0.6101 (0.4354)
	Geographic origin	-0.0696 (-0.1221)	0.0101 (0.4354)
Mycelial growth at 30°C	Fertility status	0.0517	0.7051
, ,	Original host's disease status	-0.1179 -0.0700)	0.3654 (0.6402)
	Geographic origin	-0.0809 (-0.1584)	0.5535 (0.3101)
		, - ,	, , ,
Categorical variable vs. C	ategorical variable		
Fertility status	Original host's disease status	0.2369	0.0712
	Geographic origin	0.0773	0.5628

Onducted using the online statistical tools available at https://www.socscistatistics.com/tests/biserial/default.aspx.
Point biserial correlation analysis using comparisons between continuous growth or pathogenicity data and their associated categorical data for fertility or laccase production. Phi Coefficient analysis of the binary data involving reproductive status (i.e., self-fertile or sterile), host's disease status, and pathogenicity against A. mearnsii.

b Coefficient $r_{\text{(pearson)}}$ for Pearson's product-moment correlation analysis, coefficient $r_{\text{(pbc)}}$ for the Point Biserial correlation analysis and Φ for Phi coefficient analysis. Values in brackets were obtained when all self-sterile isolates were excluded from the analyses.

^c The P-values in brackets were obtained when all self-sterile isolates were excluded from the analyses. Those significant at the 95% confidence level are indicated in bold.