

Supplementary Information

Table S1. List of strains used in the study, their date of isolation and SSU rDNA GenBank accession numbers.

Table S2. Seasonality of *Leptocylindraceae* species with their bloom time and LOX type.

Figure S1. Typical growth curves established by cell density for *Leptocylindrus* species and *T. belgicus* ($n = 3$). Cell densities were estimated by counting cell number every day, using a Sedgwick-Rafter counting chamber.

Figure S2. LC-MS chromatograms of (A) *L. aporus* B724; (B) *L. convexus* B783; (C) *L. convexus* B778; (D) *L. danicus* B707; (E) *L. hargravesii* B781; (F) *T. belgicus* B755.

Table S1. List of strains used in the study, their date of isolation and SSU rDNA GenBank accession numbers.

Strain	Date of Isolation	SSU rDNA
<i>Leptocylindrus aporus</i>		
SZN-B727	03/08/2010	KC814810
SZN-B764	18/11/2010	KC814810
SZN-B651	21/08/2010	KC814810
<i>Leptocylindrus convexus</i>		
SZN-B778	25/01/2011	KC814811
SZN-B783	25/01/2011	KC814811
<i>Leptocylindrus danicus</i>		
SZN-B707	15/02/2010	KC814808
SZN-B715	15/06/2010	KC814808
<i>Leptocylindrus hargravesii</i>		
SZN-B772	21/12/2010	KC814809
SZN-B781	25/01/2011	KC814809
<i>Tenuicylindrus belgicus</i>		
SZN-B739	02/10/2010	KC814812
SZN-B755	19/10/2010	KC894152

Table S2. Seasonality of *Leptocylindraceae* species with their bloom time and LOX type.

Species	Season	Peak Months	Max Cell No. Cells L ⁻¹		Oxylipin Pathway	
<i>L. aporus</i>	Jul–Oct	Jul–Aug	<10 ⁵ –10 ⁶	counted	14-LOX	
<i>L. convexus</i>	Dec–Mar	Jan–Feb	<10 ² –10 ³	guessed	18-LOX	probably mixed with <i>L. danicus</i>
<i>L. danicus</i>	Nov–Jul	May–Jun	<10 ⁴ –10 ⁵	counted	15-LOX	probably mixed with <i>L. convexus</i>
<i>L. hargravesii</i>	Dec–Jan	Dec–Jan	<10 ²	guessed	15-LOX	probably mixed with <i>L. danicus</i> and <i>L. convexus</i>
<i>T. belgicus</i>	Aug–Oct	Sept–Oct	<10 ⁴ –10 ⁵	counted	5-LOX	

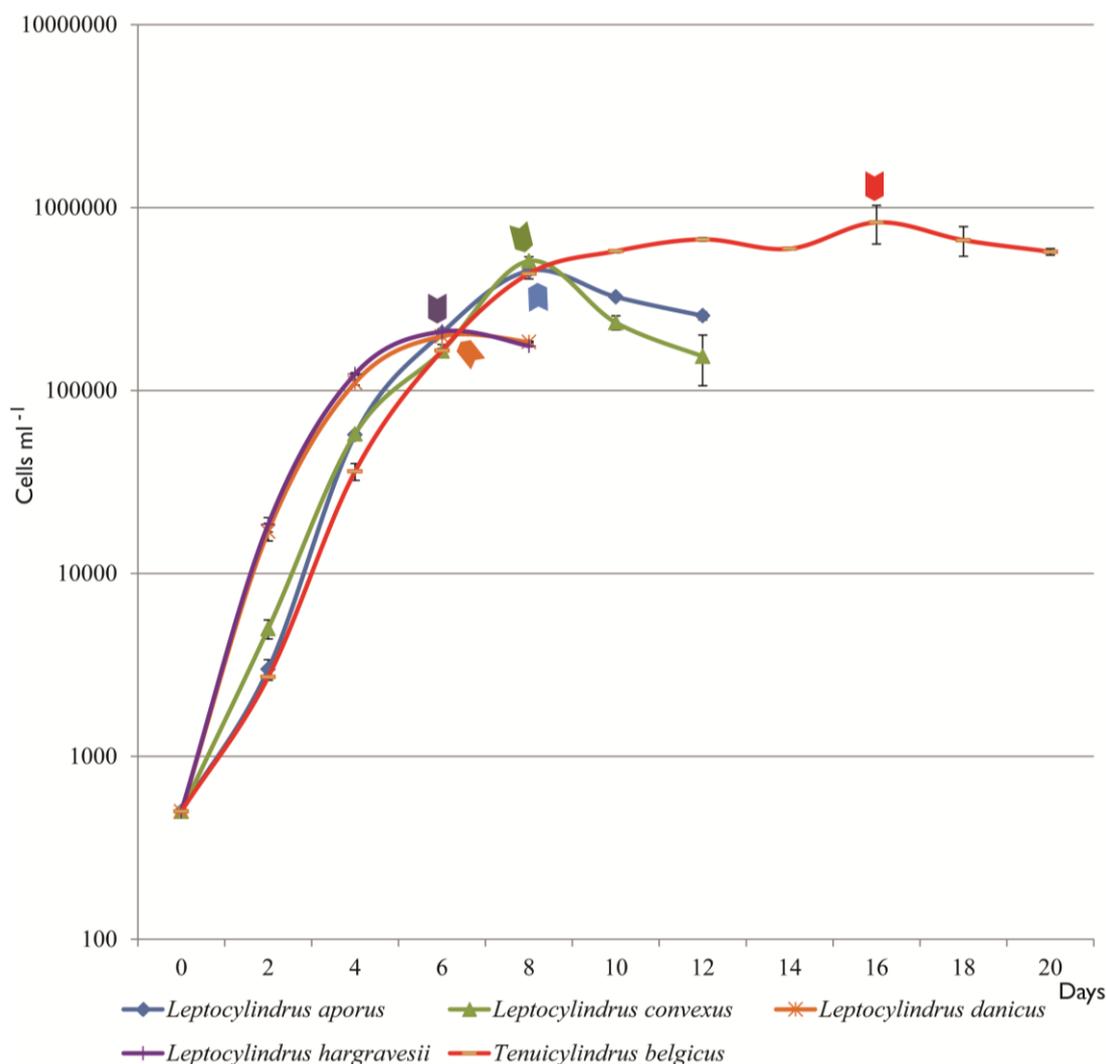
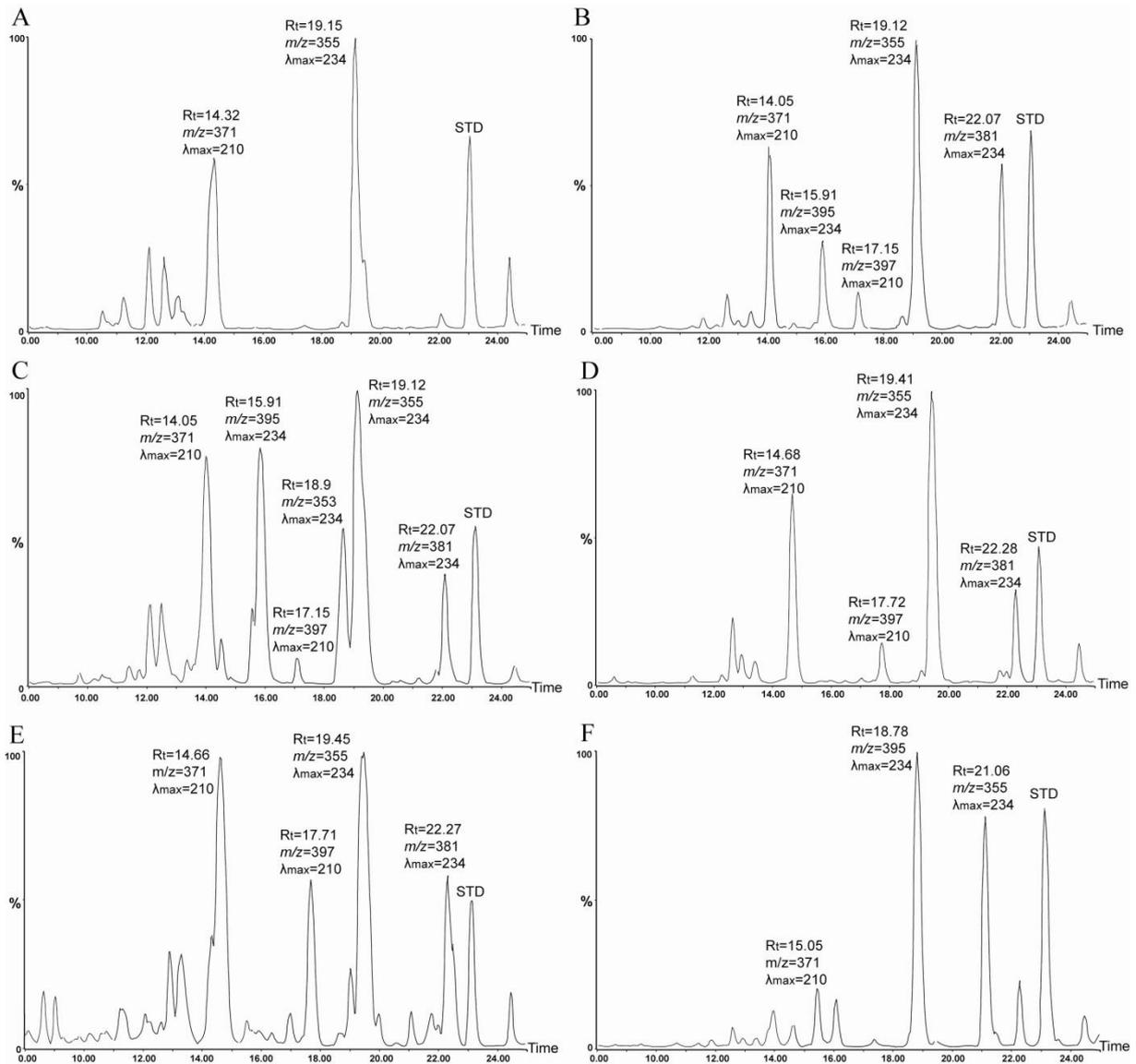
Figure S1. Typical growth curves established by cell density for *Leptocylindrus* species and *T. belgicus* ($n = 3$). Cell densities were estimated by counting cell number every day, using a Sedgwick-Rafter counting chamber. Arrowheads indicate the stage at which cells were harvested for analysis (Stationary phase).

Figure S2. LC-MS chromatograms of (A) *L. aporus* B724; (B) *L. convexus* B783; (C) *L. convexus* B778; (D) *L. danicus* B707; (E) *L. hargravesii* B781; (F) *T. belgicus* B755.



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