

Supplementary Materials

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Supplementary Table S1. Genetic distance (number of base difference) between *Pseudopirsonia* species based on 1,647 positions of SSU rRNA gene region

No.	Species	1	2	3
1	<i>P. chaetoceri</i> MPL-CcPpc01			
2	<i>P. chaetoceri</i> MPL-CcPpc02	0		
3	<i>P. mucosa</i>	0.7 (11)	0.7 (11)	
4	<i>Pseudopirsonia</i> sp.	7.3 (120)	7.3 (120)	7.7 (127)

SSU rRNA, small subunit ribosomal RNA.

Supplementary Table S2. Host range of *Pseudopirsonia chaetoceri* n. sp. and *P. mucosa*

Diatom species	<i>P. chaetoceri</i> n. sp. (MPL-CcPpc01)	<i>P. mucosa</i>
<i>Asterionellopsis glacialis</i>	–	
<i>Bacteriastrum hyalinum</i>	–	
<i>Cerataulina pelagica</i>	–	+/-
<i>Chaetoceros constrictus</i>	H	
<i>Coscinodiscus granii</i>	–	–
<i>Coscinodiscus radiatus</i>	–	
<i>Coscinodiscus wailesii</i>	–	–
<i>Detonula pumila</i>	–	–
<i>Eucampia zodiacus</i>	–	
<i>Guinardia delicatula</i>	–	+
<i>G. flaccida</i>	–	+
<i>Hemiaulus chinensis</i>	+	
<i>Leptocylindrus danicus</i>	–	+
<i>Licmophora</i> sp.	–	
<i>Pseudo-nitzschia delicatissima</i>	–	
<i>Rhizosolenia imbricata</i>	–	H
<i>R. setigera</i>	–	+
<i>Stephanopyxis turris</i>	–	–
<i>Thalassionema nitzschioides</i>	–	–
<i>Thalassiosira punctigera</i>	–	–
<i>Thalassiosira rotula</i>	–	–
Reference	This study	Kühn et al. (2004)

H, host species from field observation; +, infection in culture; –, no infection in culture.

Supplementary Video S1. Infection process of *Pseudopirsonia chaetoceri* n. sp. (<https://www.e-algae.org>).