

DNA analysis confirms the new species *Parachaetocladius lenferringtoni* Bouchard et Namayandeh, 2024 (Chironomidae: Diptera)

ARMIN NAMAYANDEH, R. WILLIAM, BOUCHARD, Jr., AND DYLAN J. MCNAY

TABLE S1. List of taxa, codes, BOLD species ID.

Species	BOLD
CARR2486-23- <i>Georthocladius</i> sp.	MOZZ00000977A_G7
CARR956-23- <i>Georthocladius</i> sp.	MOZZ00000976A_E6
GMGRA008-13- <i>Georthocladius</i> sp.	BIOUG04795-B12
GMGRA011-13- <i>Georthocladius</i> sp.	BIOUG04795-C03
GMGRA012-13- <i>Georthocladius</i> sp.	BIOUG04795-C04
GMGRA1103-13- <i>Georthocladius</i> sp.	BIOUG05141-C03
GMGRA549-13- <i>Georthocladius</i> sp.	BIOUG05105-H06
LEFIJ3888-16- <i>Georthocladius</i> sp.	ZMUO.024531
LEFIJ7232-18- <i>Georthocladius</i> sp.	Koz1236
NBGW6060-23- <i>Georthocladius</i> sp.	NBGW_035_D10
NBGW6099-23- <i>Georthocladius</i> sp.	NBGW_036_A3
NBGW6118-23- <i>Georthocladius</i> sp.	NBGW_036_A5
ROMAC413-22- <i>Georthocladius</i> sp.	DICH_SC2a_01
ROMAC428-22- <i>Georthocladius</i> sp.	DICH_VB3b_03
ROMAC429-22- <i>Georthocladius</i> sp.	DICH_VB3b_04
RRNW425-23- <i>Georthocladius</i> sp.	RRNW_006_A9
CHIFI351-16- <i>Parachaetocladius abnobaesus</i>	ZMUO.025952
GMGRA1307-13- <i>Parachaetocladius abnobaesus</i>	BIOUG05143-D05
GBMNC3451-20- <i>Parachaetocladius akanoctavus</i>	MT653139
GBMNC3452-20- <i>Parachaetocladius akanoctavus</i>	MT653138
PCHAT-01- <i>Parachaetocladius lenferringtoni</i>	PCHAT-01-24
PCHAT-02- <i>Parachaetocladius lenferringtoni</i>	PCHAT-02-24
CNWAD557-14- <i>Pseudorthocladius curtistylus</i>	BIOUG17888-A02
CNIVF293-14- <i>Pseudorthocladius curtistylus</i>	BIOUG16944-C10
CNWAD065-14- <i>Pseudorthocladius curtistylus</i>	BIOUG17866-G08
AEDNA417-12- <i>Pseudorthocladius curtistylus</i>	CCDB-08108-D07
ABINP4142-21- <i>Pseudorthocladius curtistylus</i>	BIOUG66090-E05
AMCAF1736-19- <i>Pseudorthocladius curtistylus</i>	BIOUG45337-B03
ABOTH6002-22- <i>Pseudorthocladius curtistylus</i>	BIOUG95370-F07
ATNA236-09- <i>Pseudorthocladius curtistylus</i>	ATNA236
CNWAF1045-15- <i>Pseudorthocladius curtistylus</i>	BIOUG18225-A08
CNWAC1744-14- <i>Pseudorthocladius curtistylus</i>	BIOUG17859-F03
ATNA357-09- <i>Pseudorthocladius pilosipennis</i>	ATNA357
CHIFI181-16- <i>Pseudorthocladius pilosipennis</i>	ZMUO.026352
DRYAS14115-15- <i>Pseudorthocladius pilosipennis</i>	24528-E11
DRYAS17965-15- <i>Pseudorthocladius pilosipennis</i>	24416-B02

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Species	BOLD
FBCHI764-16- <i>Pseudorthocladius pilosipennis</i>	CCDB24183-A03
GMGRB1051-13- <i>Pseudorthocladius pilosipennis</i>	BIOUG05217-H10
GMGRB1052-13- <i>Pseudorthocladius pilosipennis</i>	BIOUG05217-H11
GMGRB1636-13- <i>Pseudorthocladius pilosipennis</i>	BIOUG05220-H10
GMGRB1636-13- <i>Pseudorthocladius pilosipennis</i>	BIOUG05207-B05
GMGRB821-13- <i>Pseudorthocladius pilosipennis</i>	BIOUG05215-E06
LEFIJ16659-21- <i>Pseudorthocladius pilosipennis</i>	ZMUO.042317
LEFIJ16709-21- <i>Pseudorthocladius pilosipennis</i>	ZMUO.042367
LEFIJ16745-21- <i>Pseudorthocladius pilosipennis</i>	ZMUO.042403
LEFIJ16768-21- <i>Pseudorthocladius pilosipennis</i>	ZMUO.042426
LEFIJ16795-21- <i>Pseudorthocladius pilosipennis</i>	ZMUO.042453
LEFIJ16822-21- <i>Pseudorthocladius pilosipennis</i>	ZMUO.042480
LEFIJ16838-21- <i>Pseudorthocladius pilosipennis</i>	ZMUO.042496
LEFIJ16843-21- <i>Pseudorthocladius pilosipennis</i>	ZMUO.042501
LEFIJ3398-16- <i>Pseudorthocladius pilosipennis</i>	ZMUO.024968
NSBE095-23- <i>Pseudorthocladius pilosipennis</i>	NSBE_002_H11
YARN2817-24- <i>Pseudorthocladius pilosipennis</i>	YARN_019_G10
YARN3850-24- <i>Pseudorthocladius pilosipennis</i>	YARN_020_E10
YARN4059-24- <i>Pseudorthocladius pilosipennis</i>	YARN_019_C7
AGAKC431-17- <i>Orthocladius carlatus</i>	BIOUG31749-C02

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TABLE S2. Kimura 2-Parameter (K2P) average (percent) intraspecific distances obtained in MEGA X for the *Georthocladius*, *Parachaetocladius*, and *Pseudorethocladius* spp.

	<i>Parachaetocladius lenferringtoni</i>	<i>Parachaetocladius abnobaesus</i>	<i>Pseudorthocladius pilosipennis</i>	<i>Pseudorthocladius curtistylus</i>	<i>Parachaetocladius akanoctavus</i>	<i>Georthocladius</i> sp.
<i>Parachaetocladius lenferringtoni</i>						
<i>Parachaetocladius abnobaesus</i>	15.0					
<i>Pseudorthocladius pilosipennis</i>	13.9	14.3				
<i>Pseudorthocladius curtistylus</i>	16.8	16.4	12.3			
<i>Parachaetocladius akanoctavus</i>	15.3	14.5	14.1	17.4		
<i>Georthocladius</i> sp.	16.5	17.0	15.9	17.7	18.5	

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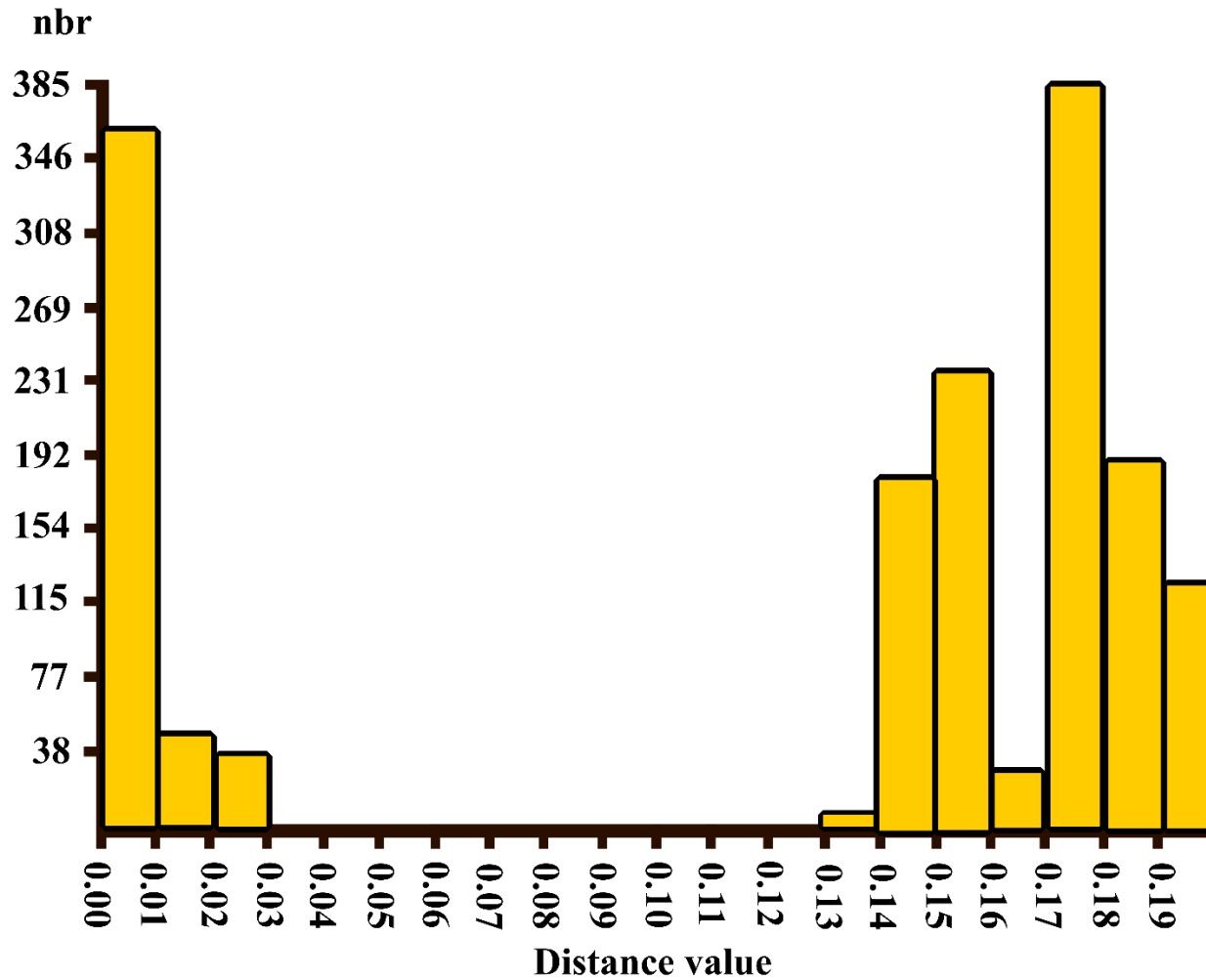


FIGURE S1. Histograms of genetic distance estimates from ASAP (Assemble Species by Automatic Partitioning) of 56 cytochrome oxidase subunit1 sequences of the *Georthocladius*, *Parachaetocladius*, and *Pseudorethocladius* spp. nbr = number of runs.