Table S4. Query identification criteria for t	he Neighbour	r Joining-based and	d matching methods ((modified from Meier et al. 2006).
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Method	Identification Outcome				
	Successful	Ambiguous/Unidentified	Failure/Mis-identification		
Neighbour Joining-based, revised	Query in polytomy with conspecifics OR	Query without a conspecific sequence in	Query at least one node into an		
criteria	Query at least one node into a clade	the dataset OR Query sister group to	allospecific clade OR Query in polytomy		
	exclusively consisting of conspecifics	conspecifics OR Query in polytomy with	with only allospecific sequences		
		at least one conspecific and one			
		allospecific sequence			
"Best Match"	Sequence(s) with smallest distance to	Sequence(s) with smallest distance to	All sequence(s) with smallest distance to		
	query all conspecific	query a mixture of allo- and conspecific	query allospecific		
		sequences			
"Best Close Match"	Sequence(s) with smallest distance to	Sequence(s) with smallest distance to	All sequence(s) with smallest distance to		
	query all conspecific and within the 95 th	query a mixture of allo- and conspecific	query allospecific and within 95 th		
	percentile of all intraspecific distances	sequences and within the 95 th percentile	percentile of all infraspecific distances		
		of all infraspecific distances OR No			
		match within 95 th percentile of all			
		infraspecific distances			
"All Species Barcode"	As in "Best Match", but with all	As in "Best Match", but with at least one	Query with conspecific sequence in		
-	conspecific sequences topping the list of	allospecific sequence being more similar	dataset is more similar to all sequences		
	best matches	to query than the least similar conspecific	from another species		
		sequence			

Reference

Meier R, Shiyang K, Vaidya G, Ng PKL, 2006. DNA barcoding and taxonomy in Diptera: a tale of high intraspecific variability and low identification. Systematic Biology 55:715-726.