

Table S1. NCBI BLAST results of filarial and non-filarial nematodes recovered from *Simulium* spp. based on mitochondrial *cox1*, 12S rRNA and nuclear 18S rRNA (*SSU* HVR-I) gene sequences.

Black fly species	Specimen Isolate	Gene	Closest species	% similarity	GenBank accession number
<i>S. sp.</i>	BPD1	<i>Cox1</i>	<i>Dirofilaria repens</i>	90	MH780816
			<i>Loa loa</i>		HQ186250
			<i>Onchocerca gibsoni</i>		AJ271616
		12S rRNA	<i>Wuchereria bancrafti</i>	89	JF775522
			<i>Brugia malayi</i>		AF538716
			<i>Loa loa</i>		HQ186250
<i>S. asakoeae</i> species-group	BPD2, BPD3, BPD4.1, BPD4.2	<i>Cox1</i>	<i>Dirofilaria repens</i>	90	MH780816
			<i>Loa loa</i>		HQ186250
			<i>Onchocerca gibsoni</i>		AJ271616
		12S rRNA	<i>Wuchereria bancrafti</i>	88-90	JF775522
			<i>Brugia malayi</i>		AF538716
			<i>Loa loa</i>		HQ186250, AJ544845, FR827907
	BPD5	18S rRNA	<i>Isomermis lairdi</i>	98	FN400900
	BPD6	12S rRNA	<i>Litoditis aff. Marina PmlV</i>	91	KR815453
	BPD8	18S rRNA	<i>Porrocaecum streperae</i>	98	EF180074
			<i>Pseudoterranova decipiens</i>		U94380
			<i>Baylisascaris procyonis</i>		U94368
<i>Ascaris suum</i>			U94367		
<i>S. nigrogilvum</i>	BL1, BL2, BL3.1, BL3.2, BL4.1, BL4.2, BL5.1, BL5.2, BL5.3, BL5.4, BL5.5, BL6	<i>Cox1</i>	<i>Onchocerca</i> sp. type A	99-100	AB518876
		12S rRNA		100	AB518877, AB518878, AB518879

Table S2. Range of interspecific genetic divergence (%) among the infected black flies belonging to *S. asakoe* species-group.

	Black fly species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	<i>S. sp. BPD2</i>																			
2	<i>S. sp. BPD3</i>	8.93																		
3	<i>S. sp. BPD4</i>	8.53	2.73																	
4	<i>S. sp. BPD5</i>	9.15	2.92	1.62																
5	<i>S. sp. BPD6</i>	0.54	8.73	8.33	8.95															
6	<i>S. sp. BPD7</i>	7.75	4.42	4.43	3.28	7.76														
7	<i>S. sp. BPD8</i>	7.53	6.74	6.15	5.95	7.75	5.55													
8	<i>S. sp. BPD9</i>	7.53	6.74	6.15	5.95	7.75	5.55	0												
9	<i>S. asakoe</i>	0.00-2.17	8.32-8.93	7.92-8.53	8.13-9.15	0.54-1.99	6.95-7.75	7.34-7.53	7.34-7.53											
10	<i>S. monglaense</i>	8.52-8.73	2.92-3.48	0.18-2.17	1.62-1.81	8.54-8.73	4.23-4.62	6.14-6.35	6.14-6.35	7.91-8.73										
11	<i>S. myanmarensis</i>	8.93-9.14	0.00-0.18	2.73-2.92	2.92-3.11	8.73-8.94	4.42-4.61	6.74-6.94	6.74-6.94	8.32-9.14	2.92-3.67									
12	<i>S. lurauense</i>	9.15-9.56	8.49-8.90	8.70-9.11	7.69-8.09	9.34-9.76	6.71-7.11	7.92-8.33	7.92-8.33	8.52-9.56	7.88-9.32	8.49-9.10								
13	<i>S. softiani</i>	9.35	8.49	8.7	8.09	9.55	7.11	8.33	8.33	8.72-9.35	7.88-8.90	8.49-8.69	0.36-0.54							
14	<i>S. udomi</i>	8.37	6.75	6.36	6.56	8.18	7.76	6.79	6.79	7.36-8.37	6.56-7.36	6.75-6.96	8.52	8.93						
15	<i>S. rampae</i>	8.38-8.59	6.56-6.76	5.78-5.97	5.97-6.17	8.19-8.40	7.36-7.56	6.60-6.40	6.60-6.40	7.37-8.59	6.97-6.96	6.56-6.96	7.91-8.12	8.32-8.53	0.71-0.89					
16	<i>S. brinhangense</i>	7.36	7.53-7.74	6.74-6.94	6.54-6.74	7.57	5.57-5.76	2.35-2.73	2.35-2.73	7.17-7.57	6.73-7.14	7.53-7.94	7.54-7.95	7.95	7.39	7.20-7.40				
17	<i>S. tanahrataense</i>	7.95	4.61	4.62	3.47	7.96	0.18	5.74	5.74	7.15-7.95	4.42-4.81	4.61-4.81	6.91-7.31	7.31	7.96	7.56-7.77	5.76-5.96			
18	<i>S. izuae</i>	9.35	3.30-3.49	2.36-2.93	2.18-2.36	9.16	4.23-4.43	5.95-6.15	5.95-6.15	7.52-9.35	2.55-3.68	3.30-3.68	8.49-9.11	8.90-9.11	6.76-6.96	6.57-6.97	6.34-6.74	4.43-4.62		
19	<i>S. roslitashimi</i>	8.95-9.16	3.29-3.67	2.36	1.81	8.75-8.96	4.61-4.81	5.76-6.16	5.76-6.16	7.12-9.16	2.55-3.10	3.29-3.86	8.30-8.91	8.71-8.91	6.57-6.97	6.38-6.58	6.15-6.55	4.81-5.00	1.62-2.17	