

haplotypes H1-H4. These haplotypes include all the identified specimens from the US, Canada, Switzerland and Italy, plus variable proportions of Asian *T. japonicus* populations. Following the name of the haplotype, a representative NCBI accession number is specified. The haplotype names are based on Stahl et al. [55] and analysis in this study.

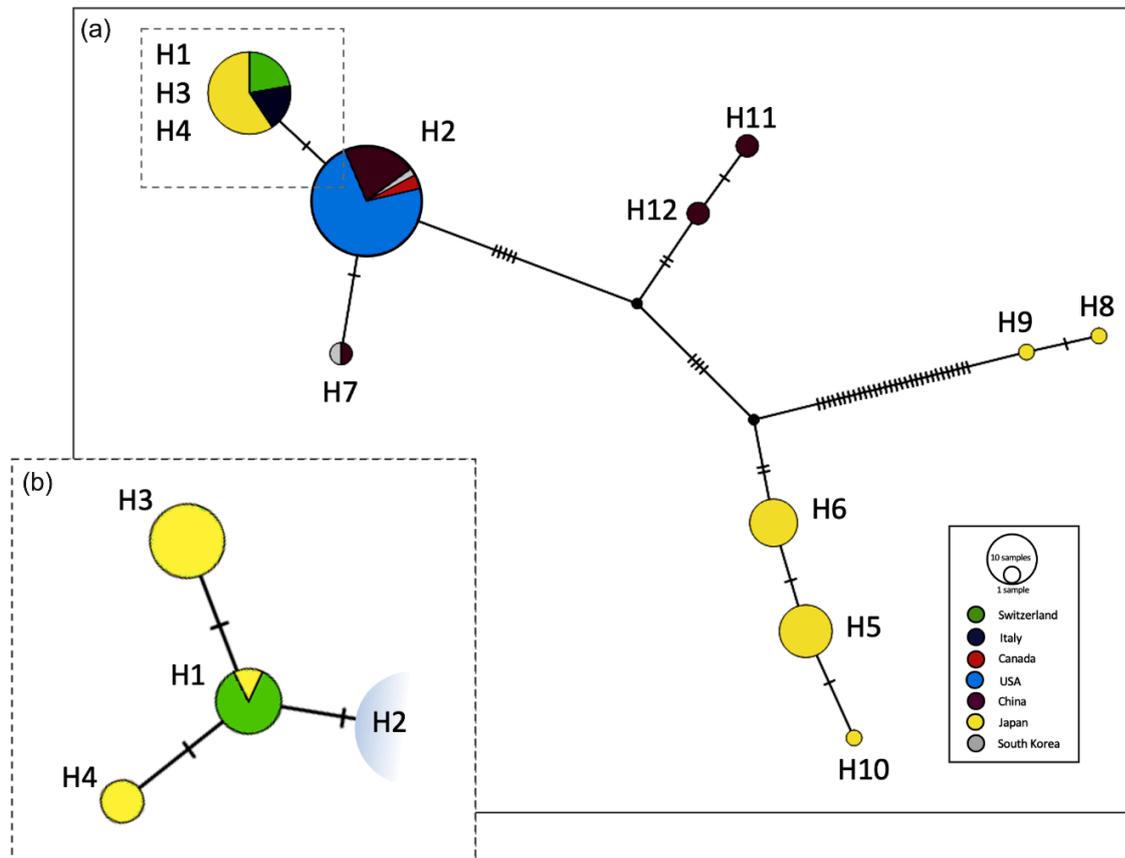


Fig. S3. Barcode haplotype network of the *T. japonicus* CO1 sequences analyzed in this study. Each circle corresponds to one haplotype. Circle sizes are proportional to the number of sequences belonging to the haplotype, and each color distinguishes a different geographical origin. Black dots are nodes and hatch marks show the number of mutations between haplotypes. The phylogenetic relationships among haplotypes were established using statistical parsimony in TCS as implemented in PopART software [57]. The analyzed sequences had different lengths and were trimmed before the analysis. In (a), the haplotype network was constructed with 103 *T. japonicus* CO1 sequences of 373 bp. The region of the analyzed CO1 sequences did not allow distinguishing between the haplotypes H1, H3 and H4 described by Stahl et al. [55], who used longer CO1 sequences for the analysis. In (b) the relationship between haplotypes H1, H3, and H4 described by Stahl et al. [55] is represented. In this case, the compared sequences are 423 bp long, and exclude the Italian and Japanese sequences whose short length did not allow their haplotype (H1, H3 or H4) to be elucidated.

		Position of Haplotype Markers																							
Haplotype	Representative sequence	5	16	19	29	34	37	55	61	67	73	74	76	91	94	100	103	106	109	115	154	155	160	161	175
H1	MH919753	T	A	A	C	C	A	C	G	C	A	T	A	A	A	C	T	T	T	C	C	T	A	A	
H2	MH919759
H3	MH919744
H4	AB847131
H5	AB847144	.	.	.	.	T	C	.	A	.	.	.	.	G	.	T	.	.	.	.	T	.	G	.
H6	AB847129	.	.	.	.	T	C	.	A	.	.	.	.	.	.	T	.	.	.	.	T	.	G	.
H7	MK188357
H8	MN615627	C	G	G	T	T	.	T	A	T	G	.	C	.	T	.	A	A	A	A	T	C	G	T	
H9	MN615633	C	G	G	T	T	.	T	A	T	G	.	C	.	T	T	A	A	A	A	T	C	G	T	
H10	MN615631	.	.	.	.	T	C	.	A	.	.	.	.	G	.	T	.	.	.	.	T	.	G	.
H11	MK188363	.	.	.	.	T	.	.	A	.	.	G	.	G	.	.	.	.	.	.	.	.	G	.
H12	MN615632	.	.	.	.	T	.	.	A	.	.	.	G	.	.	.	.	.	.	.	.	.	G	.

Haplotype	Representative sequence	178	187	196	217	233	235	247	278	281	284	286	289	290	310	313	319	329	343	349	355	358	364	367	370
H1	MH919753	T	A	T	T	A	T	G	A	T	T	A	T	C	C	G	C	T	T	T	C	T	T	A	A
H2	MH919759	A
H3	MH919744
H4	AB847131
H5	AB847144	.	.	.	.	.	A	.	.	.	C	.	A	A	.	.	.	.	T	.	C	.	.	.
H6	AB847129	.	.	.	.	.	A	.	.	.	C	.	A	A	.	.	.	.	T	.	C	.	.	.
H7	MK188357	.	.	.	T	.	.	.	.	.	.	.	.	A	.	.	.	.	.	.	.	.	.	.
H8	MN615627	A	G	C	C	.	A	A	.	C	C	T	C	T	A	A	T	C	C	C	.	C	G	T	
H9	MN615633	A	G	C	C	.	A	A	.	C	C	T	C	T	A	A	T	C	C	C	.	C	G	T	
H10	MN615631	.	.	.	.	.	A	.	.	.	C	.	A	A	.	.	.	.	T	C	C	.	.	.
H11	MK188363	.	.	.	.	.	A	G	.	.	.	.	.	A	A	.	.	.	.	.	.	.	.	.
H12	MN615632	.	.	.	.	.	A	G	.	.	.	.	.	A	A	.	.	.	.	.	.	.	.	.

Haplotype	Representative sequence	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397
H1	MH919753	G	G	A	G	G	A	G	A	T	C	C	A	G	T	A	C	T	A	T	A	C	C	A	A
H2	MH919759	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H3	MH919744	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H4	AB847131	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H5	AB847144	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.
H6	AB847129	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.
H7	MK188357	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H8	MN615627	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H9	MN615633	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H10	MN615631	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H11	MK188363	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H12	MN615632	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Haplotype	Representative sequence	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	
H1	MH919753	C	A	T	T	T	A	T	T	T	T	G	A	T	T	T	T	T	T	G	G	T	C	A	C	
H2	MH919759
H3	MH919744	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	A	.	.
H4	AB847131	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T
H5	AB847144	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H6	AB847129	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H7	MK188357	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H8	MN615627	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H9	MN615633	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H10	MN615631	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H11	MK188363	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
H12	MN615632	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Fig. S4. Position of haplotype markers in *T. japonicus* CO1 sequence. For each haplotype, the NCBI accession number of a representative sequence is provided. Haplotype H1 was arbitrary selected as reference. Identical nucleotides are represented with dots. Differences between haplotypes H1-H6 were described by Stahl et al. [55] using CO1 aligned sequences of 423 nucleotides. Sequences representing haplotypes H7-H12 are shorter (dashes in a grey background denote non-available CO1 sequence regions) and can be differentiated from each other and from haplotypes H1-H6 by comparing a shorter region (373 bp).