

Table S3. Analyses of molecular variance (AMOVA) among regions of *P. spumarius* based on COI data.

Source of variation	d.f.	Sum of squares	Variance of components	% of variation
<i>*[North America][Azores][North Africa][Northern Europe] [Western Europe]</i>				
<i>[South-western Europe][Central Europe][South-eastern Europe][South-western Asia]</i>				
Among groups	8	196.948	0.73116 Va	27.73
Among regions within groups	4	29.265	0.66613 Vb	25.26
Within regions	177	219.194	1.23930 Vc	47.00
Total	189	445.568	2.63658	
<i>**[North America][Azores][North Africa][Northern Europe] [United Kingdom]</i>				
<i>[Southern Europe][Central Europe][South-western Asia]</i>				
Among groups	7	155.904	0.77953 Va	27.59
Among regions within groups	5	70.309	0.80628 Vb	28.54
Within regions	177	219.356	1.23930 Vc	43.87
Total	189	445.568	2.82511	

** North America:* United States of America and Canada; *North Africa:* Morocco; *Northern Europe:* Finland; *Western Europe:* United Kingdom, France and Belgium; *South-western Europe:* Iberian Peninsula; *Central Europe:* Slovenia; *South-eastern Europe:* Italian Peninsula, Sicily and Balkans; *South-western Asia:* Anatolia Peninsula.

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