

**This is an electronic reprint of the original article.
This reprint *may differ* from the original in pagination and typographic detail.**

Author(s): Piironen, Saija; Lindström, Leena; Lyytinen, Anne; Mappes, Johanna; Chen, Yolanda H; Izzo, Victor; Grapputo, Alessandro

Title: Pre-invasion history and demography shape the genetic variation in the insecticide resistance-related acetylcholinesterase 2 gene in the invasive Colorado potato beetle

Year: 2013

Version:

Please cite the original version:

Piironen, S., Lindström, L., Lyytinen, A., Mappes, J., Chen, Y. H., Izzo, V., & Grapputo, A. (2013). Pre-invasion history and demography shape the genetic variation in the insecticide resistance-related acetylcholinesterase 2 gene in the invasive Colorado potato beetle. *BMC Evolutionary Biology*, 13(13). <https://doi.org/10.1186/1471-2148-13-13>

All material supplied via JYX is protected by copyright and other intellectual property rights, and duplication or sale of all or part of any of the repository collections is not permitted, except that material may be duplicated by you for your research use or educational purposes in electronic or print form. You must obtain permission for any other use. Electronic or print copies may not be offered, whether for sale or otherwise to anyone who is not an authorised user.

Online Supplementary material:

Piironen et al. "Pre-invasion history and demography shape the genetic variation in the insecticide resistance-related acetylcholinesterase 2 gene in the invasive Colorado potato beetle".

Additional file 4 Pairwise genetic differentiation (Φ_{ST}) for (a) *DPI* and (b) *JHE-b* loci between European and North American Colorado potato beetle populations. Significant values are in bold

(a)

	Morelos	Oaxaca	Puebla	Kansas	Colorado	Russia	Finland	Estonia	Poland
Morelos									
Oaxaca	0.029								
Puebla	0.623	0.629							
Kansas	0.625	0.627	0.253						
Colorado	0.715	0.719	0.347	0.030					
Russia	0.737	0.740	0.415	0.088	0.079				
Finland	0.766	0.771	0.449	0.088	0.082	0.096			
Estonia	0.750	0.758	0.409	0.044	0.032	-0.034	-0.030		
Poland	0.757	0.760	0.446	0.094	0.070	-0.032	0.039	-0.072	
Italy	0.690	0.692	0.345	0.048	0.057	-0.031	0.107	-0.002	0.010

(b)

	Morelos	Oaxaca	Kansas	Russia	Finland
Morelos					
Oaxaca	0.004				
Kansas	0.504	0.487			
Russia	0.548	0.556	0.367		
Finland	0.663	0.660	0.477	0.108	
Italy	0.681	0.671	0.506	0.086	0.083