



The genetic structure of a *Venturia inaequalis* population in a heterogeneous host population composed of different *Malus* species

Submitted by Emmanuel Lemoine on Thu, 02/12/2015 - 13:16

Titre	The genetic structure of a <i>Venturia inaequalis</i> population in a heterogeneous host population composed of different <i>Malus</i> species
Type de publication	Article de revue
Auteur	Leroy, Thibault [1], Lemaire, Christophe [2], Dunemann, Frank [3], Le Cam, Bruno [4]
Editeur	BioMed Central
Type	Article scientifique dans une revue à comité de lecture
Année	2013
Langue	Anglais
Date	2013/03/12
Numéro	1
Volume	13
Titre de la revue	BMC Evolutionary Biology
ISSN	1471-2148
Mots-clés	Adaptation [5], apple scab [6], Gene flow [7], Isolation-by-distance (IBD) [8], Spatial genetic structure [9]
Résumé en anglais	Adaptation, which induces differentiation between populations in relation to environmental conditions, can initiate divergence. The balance between gene flow and selection determines the maintenance of such a structure in sympatry. Studying these two antagonistic forces in plant pathogens is made possible because of the high ability of pathogens to disperse and of the strong selective pressures exerted by their hosts. In this article, we analysed the genetic structure of the population of the apple scab fungus, <i>Venturia inaequalis</i> , in a heterogeneous environment composed of various <i>Malus</i> species. Inferences were drawn from microsatellite and AFLP data obtained from 114 strains sampled in a single orchard on nine different <i>Malus</i> species to determine the forces that shape the genetic structure of the pathogen.
URL de la notice	http://okina.univ-angers.fr/publications/ua7892 [10]
DOI	10.1186/1471-2148-13-64 [11]
Lien vers le document	http://dx.doi.org/10.1186/1471-2148-13-64 [11]

Liens

[1] [http://okina.univ-angers.fr/publications?f\[author\]=24073](http://okina.univ-angers.fr/publications?f[author]=24073)

[2] <http://okina.univ-angers.fr/christophe.lemaire/publications>

- [3] [http://okina.univ-angers.fr/publications?f\[author\]=12201](http://okina.univ-angers.fr/publications?f[author]=12201)
- [4] <http://okina.univ-angers.fr/b.lecam/publications>
- [5] [http://okina.univ-angers.fr/publications?f\[keyword\]=4433](http://okina.univ-angers.fr/publications?f[keyword]=4433)
- [6] [http://okina.univ-angers.fr/publications?f\[keyword\]=11864](http://okina.univ-angers.fr/publications?f[keyword]=11864)
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=12304](http://okina.univ-angers.fr/publications?f[keyword]=12304)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=12305](http://okina.univ-angers.fr/publications?f[keyword]=12305)
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=12306](http://okina.univ-angers.fr/publications?f[keyword]=12306)
- [10] <http://okina.univ-angers.fr/publications/ua7892>
- [11] <http://dx.doi.org/10.1186/1471-2148-13-64>

Publié sur *Okina* (<http://okina.univ-angers.fr>)