



**HAL**  
open science

## **”Aramis®” strategy: a durable manner to develop a sharka resistant apricot cultivar**

Guillaume Roch, Jean Marc Audergon, Thierry T. Candresse, Véronique Decroocq, David Tricon, Sylvie Dallot, Magaly Lamberet, Guy Clauzel

### **► To cite this version:**

Guillaume Roch, Jean Marc Audergon, Thierry T. Candresse, Véronique Decroocq, David Tricon, et al.. ”Aramis®” strategy: a durable manner to develop a sharka resistant apricot cultivar. 16. International Symposium on Apricot Breeding and Culture, International Society for Horticultural Science (ISHS). INT., Jun 2015, Shenyang, China. 298 p. hal-02744190

**HAL Id: hal-02744190**

**<https://hal.inrae.fr/hal-02744190>**

Submitted on 3 Jun 2020

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L’archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d’enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

XVI International Symposium on Apricot Breeding and Culture  
and XV Chinese National Symposium on Plum and Apricot

# ABSTRACTS



ISHS



CSHS



LAAS

June 29-July 3, 2015, Shenyang, China  
Edited by: Weisheng LIU, Shuo LIU, Xiaoxue MA

## **"Aramis®" strategy: A Durable Manner to Develop A Sharka Resistant Apricot Cultivar**

Guillaume Roch<sup>1</sup> and Jean-Marc Audergon  
INRA Centre PACA, UR 1052 GAFL  
Domaine St Maurice, allée des chênes, CS60094, 84143 Montfavet Cedex  
France

<sup>1</sup>CEP Innovation. 23 rue Jean Baldassini  
69364 LYON cedex 7  
France

Thierry Candresse, Veronique Decroocq  
and David Tricon  
Equipe de Virologie, UMR 1332 Biologie  
du Fruit et Pathologie, INRA et Université  
de Bordeaux  
71 avenue E. Bourlaux, CS 20032, 33882  
Villenave d'Ornon Cedex  
France

Sylvie Dallot and Jean-Yves Couderc,  
Equipe "Epidémiologie végétale et  
vection" (Epi2V), Inra - UMR BGPI  
CIRAD- TA A54/K  
Campus international de Baillarguet,  
34398 Montpellier cedex 5  
France

Magaly Lamberet  
Service régional de l'alimentation,  
Direction Régionale de l'Alimentation, de  
l'Agriculture et de la Forêt Rhône-Alpes  
165 Rue Garibaldi - BP 3202, 69401 Lyon  
cedex03  
France

Guy Clauzel  
FREDON Rhône-Alpes  
Lyon  
France

**Keywords:** Apricot (*Prunus armeniaca* L.), sharka resistance, durability

### **Abstract**

Among fruit species apricot is characterized by a large extension over the last 20 years in Western Europe and worldwide. But, that development, by comparison with others, such as apple and peach, is hampered by strong weaknesses mainly related to climatic factors, susceptibility to pests and diseases in relation with the death of the plant or the destruction of the production. Sharka disease, due to Plum Pox Virus infection, belongs to that set of major large spread disease. The western European heritage accessions are susceptible but sources of resistance issued from America and coming from Central Asian germplasm have been identified. Under the frame of EU SharCo project molecular markers have been developed and validated. Unfortunately they were not sufficient to characterize the resistant accessions because part of the expected resistant plants are able to multiply the virus and to present symptoms. So a procedure has thus been developed to identify durable resistant apricot cultivars characterized by no viral multiplication under huge inoculation pressure.

**The procedure is now under process and developed under the name ARAMIS®. It gives the opportunity in preserving on long term apricot species from PPV contamination**