

# BIOGRAPHY

26 April 2010



## Title and name

Dr Charles MANCEAU

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## Nationality

French

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## Panel

Plant Health

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## Education

PhD plant biology, University of Clermont Ferrand, France, 1984

Habilitation à diriger les recherches (HDR), University of Angers, 2000

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## Scientific and risk assessment experience

1. Epidemiology of plant bacteriosis
2. Taxonomy, phylogeny and population genetics of plant pathogenic bacteria
3. Molecular biology, detection and identification of plant pathogens
4. Seed borne bacteria
5. Horticulture

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## Main scientific publications

My publications cover the areas of microbiology, plant pathology, genetics of bacterial populations (Pseudomonas, Xanthomona, quarantine bacteria)

1. Pieretti, I. ; Royer, M. ; Barbe, V. ; Carrere, S. ; Koebnik, R. ; Cociancich, S. ; Couloux, A. ; Darrasse, A. ; Gouzy, J. ; Jacques, M.A. ; Lauber, E. ; Manceau, C. ; Mangenot, S. ; Poussier, S. ; Segurens, B. ; Szurek, B. ; Verdier, V. ; Arlat, M. ; Rott, P. 2009. The complete genome sequence of Xanthomonas albilineans provides new insights into the reductive genome evolution of the xylem-limited Xanthomonadaceae. BMC Genomics. 2009, 10 : 616-630.
2. Hajri, A. ; Brin, C. ; Hunault, G. ; Lardeux, F. ; Lemaire, C. ; Manceau, C. ; Boureau, T. ; Poussier, S. 2009. A "Repertoire for Repertoire" hypothesis : Repertoires of type three effectors are candidate determinants of host specificity in Xanthomonas. Plos One. 2009, 4 (8) : e6632.
3. Darsonval A., A. Darrasse, D. Meyer, M. Demarty , K. Durand, C. Bureau, C. Manceau et M.-A. Jacques. 2008. The Type III secretion system of Xanthomonas fuscans subsp. fuscans Is involved in

the phyllosphere colonization process and in transmission to seeds of susceptible beans. Appl. Environ. Microbiol. 74, 2669-2678.

4. Alavi MS, S Sanjari, F. Durand, C. Brin, C. Manceau, S. Poussier. 2008. Assessment of the genetic diversity of *Xanthomonas axonopodis* pv. *phaseoli* and *Xanthomonas fuscans* subsp. *fuscans* as a basis to identify putative pathogenicity genes and a Type III secretion system of the SPI-1 family by multiple suppression subtractive hybridizations. Appl. Environ. Microbiol. 74, 3295-3301.

5. ALAVI S. M., POUSSIER S., MANCEAU C. 2007. Characterization of ISXax1, anovel insertion sequence restricted to *Xanthomonas axonopodis* pv. *phaseoli* (variant *fuscans* and non-*fuscans*) and *Xanthomonas axonopodis* pv. *vesicatoria*. Appl. Env. Microbiol. 73 : 1678-1682.

6. FARGIER E., MANCEAU C. 2007. Pathogenicity assays restrict the species *Xanthomonas campestris* into three pathovars and reveal nine races within *Xanthomonas cmpestris* pv. *campestris*. Plant Pathol. Published online 27- 07 – 2007

7. GONZALES C., SZUREK B., MANCEAU C., MATHIEU T., SERE Y., VERDIER V. 2007. Molecular and pathogenic characterization of new *Xantomonas oryzae* strains from west Africa. Mol. Plant-Microbe Interact. 20 : 534-546.

8. PUJOL M., BADOSA E., MANCEAU C., MONTESINOS E., 2006. Assessment of environmental fate of the biological control agent of fire blight, *Pseudomonas fluorescens*, on apple by culture and real-time PCR methods. Appl Env. Microbiol., 72, 2421-2427.

9. BOUDON S., MANCEAU C., NOTTEGHEM J.L., 2005. Structure and origin of *Xanthomonas arboricola* pv. *pruni* population causing bacterial necrotic spot on stone fruit trees in Western Europe. Phytopathology 95 : 1081-1088.

10. GRALL, S. ROULLAND, C., GUILLAUMES, J. & MANCEAU, C. (2005). bleeding sap and old wood are the two main sources for the contamination of merging organs of vine plants by *Xylophilus ampelinus*, the causal agent of bacterial necrosis. Appl. Environ. Microbiol. 71, 8292-8300.