

Michel MALIVERT, Entomologist
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Motivations :

- **Strong interest in technical support for entomological and veterinary medical sciences, agronomic sciences**
- **Experience in metropolis and tropical zones, I wish to contribute to the prevention, the control and the eradication of vector-borne diseases, responsible of economic inequalities and brake on development.**
- **I am available for any mission, in laboratory, on the field, under temperate or tropical climate.**

Summary with keywords :

- **Public health :** Public health - Sustainable development - Tropical diseases - Malaria - Arboviruses - Medical entomology - Control vector - Mosquitoes - Ecology and ethology of vector - Entomological investigations - Bibliography - Insectary - Phase 1 evaluation of long lasting insecticidal mosquito net - Breeding, crossing, rearing *anopheles*, *aedes* & *culex* under climatical controlled conditions.

Technical support for medical sciences

- **Agronomy, plant health :** Sustainable development - Mediterranean and tropical crops - Plant health care - Integrated, biological pest management - Agrochemicals - Entomopathogeneous - Pheromones - beneficial fauna - Side effect of pesticides - Spraying technologies - Phase 3 evaluation of biocides.

Technical support for agronomical research

- **Geographic keywords :** North Mediterranean - Gulf of Lion, Rhône - Camargue - marsh - salt marsh - garrigues - Amazonia - French Guiana - Maroni river - mangrove - tropical rain forest.
- **Institutional :** National Institute of Agronomic Research (INRA) - Regional Plant Protection Service (SRPV) - Agricultural and Environmental Engineering Research (CEMAGREF) - Ministry of Agriculture - Research Institute for Development (IRD formerly Orstom) - Pasteur Institute.
- **Medical entomology :** *Anopheles gambiae*, *stephensi* - *Aedes aegypti*, *albopictus*, *polynesiensis* - *Culex pipiens* and *quinquefasciatus* - *Anopheles darlingi*.
- **Agronomic entomology et acarology :** *Scaphoideus titanus* - *Bactrocera olea* - *Lobesia botrana*, *Eupoecilia ambiguella*, *Cydia molesta* - *Chilo suppressalis* - *Panonychus ulmi* - *Eotetranychus carpini* - *Typhlodromus pyri* - *Kampimodromus aberrans*.

Professional Experience in Medical Entomology applied to vector control of tropical diseases

From 1995 to 2001 :

**☐ LABORATOIRE DE LUTTE CONTRE LES INSECTES NUISIBLES :
Pest control laboratory in collaboration with WHO
Research UNITY # 016 : Characterization and Vector control
RESEARCH INSTITUTE for DEVELOPMENT I.R.D. formerly ORSTOM France**

- Implementation and management of a tropical climate controlled insectary to supply within a deadline, quantity and quality expectations for the scientific lab staff.
- Initializing production processes and traceability of reference strains.
- Training of foreign students in the breeding techniques of tropical mosquitoes.
- Performance of phase 1 evaluation tests on insecticides (WHO and industrial contracts).

2002 :

**☐ LABORATORY OF MEDICAL ENTOMOLOGY OF THE PASTEUR
INSTITUTE OF FRENCH GUIANA (Cayenne) : (laboratory & field activity)**

- Breeding of *Aedes aegypti*, vector of arboviruses responsible for Dengue, Yellow fever in French Guiana.
- *In situ* evaluation of effectiveness of ULV (Ultra-Low-Volume) treatments implemented by the Departmental Vector Control Agency (against *Aedes aegypti*)
- Entomological investigation in endemic malarious areas (Maroni River), with captures of mosquito vectors, mainly *Anopheles darlingi*.
- Literature search on various research subjects of the Laboratory.

Professional Experience in Entomology & Acarology applied to plants health .

From 1988 to 1994 :

☐ MINISTRY of AGRICULTURE /REGIONAL DEPARTMENT of PLANT PROTECTION :

Improvement of Integrated Pest Management methods and dissemination of information in the farming community

- Establishing in field experiments for governmental evaluation of biological effectiveness of agrochemicals and biopesticides.
- Validation of epidemiological models: mildew, vine moth.
- Presentation and broadcasting of results promoting Integrated Pest Management and biological alternative methods for use in farming trade.

Studies of side-effects of pesticides on the environment:

- Study of non-target effects of pesticides on beneficial fauna (phytoseïdes and typhlodromes) : *Collaboration with acarology team of Agro-M/INRA.*
- Adaptation of spraying equipment for experimentation *in collaboration with I.T.V. and CEMAGREF.*
- Study of the incidence of agrochemical practices on the Camargue watershed. Analysis of statistics and dissemination of results to encourage reasoned fight methods and alternative biological methods.

☐ Mission en 1991 pour BASF FRANCE : Service de promotion

- Study of the first extensive usage in France of synthetic pheromones in orchards of the Mediterranean applying methods of control by sexual confusion.

➤ **Other experience from 1977 to 1987 :**

CO-OPERATIVE INSTITUTE for WINE:

Short on-site missions for the daily follow up of wine-making procedures during fermentation.

- In Côtes du Rhône 1984
- In Côteaux du Languedoc 1985
- In Corbières 1987

BAYER FRANCE : Plant chemistry department 1984

- ***Regional experimentation using French protocol for the accreditation of plant care products for powdery mildew and acariosis control on vines and fruit trees.***

COMPAGNIE NATIONALE D'AMÉNAGEMENT DU BAS RHONE : 1977 to 1984

Water and rural planning Experimental farm for flooding methods at Mas d'Asport

- **Experiments on water behaviour and growth of perennial fruit plants and annual food crop in an open field observation post.**

➤ **Diplomas of continuing vocational training :**

2005 : MASTER'S of LIFE and HEALTH SCIENCES

Speciality : Biology of Populations

Option : Monitoring, control or conservation of insect populations

Validation of professional experience with the department of continuing education of Tours University, France.

1990 : Brevet de Technicien Supérieure Agricole : (2 years university degree)

Spéciality : *Warm weather crops.*

Option : *Farming machinery.*

- **Training period** as a specialized agronomical technician at the *Compagnie des Salins du Midi* : *comparative cost study of 10 years of professional use of vineyard machinery.*

1984 :

- **Training period** as a general agronomical technician at National Institute of Agronomy : *introduction and development of a pure breed of sheep into the Mediterranean garrigue region.*

➤ **Others : languages, computer literacy, driving licences & miscellaneous**

- **French :** fluent, native speaker.
- **English :** reading, writing, speaking.
- **Portuguese :** Brazilian autodidact.

- **Operating Systems :** Microsoft Windows environment (W9x, NT 4.0, NT like, XP).
- **Office applications :** MS Office Pro, Open office, E-mailing and Internet.
- Trouble shooting and ability to repair based on significant personal experience.

- Driving licences : normal, truck and trailer.
- National first aid certificate.
- National School of decorative arts.

References :

Pierre Guillet, PhD, HDR (Research Supervisor Capacity Award)
Research Director (DR1) of I'IRD

- Ex Scientific Director of the Pest Control Laboratory, from 1993 to 1999 - IRD (Orstom), France
- Currently : Scientist, Vector Control Specialist at the World Health Organization, Geneva, Switzerland

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Serge Kreiter, PhD (1985), HDR (Research Supervisor Capacity Award, 1997)
Full professor in ENSAM : Advanced School of Engineers in Agricultural Sciences,
Montpellier, France

- Head of the department ENSAM-INRA-LNPV (IRD) of Animal Ecology and Agricultural Zoology from 2000 to 2004.
- National Head of the Specialized Course in Plant Protection of the Inter-School of Agricultural Engineers and of the Professional Master in Plant Health of the same Inter-School, of the Bachelor in Sciences in Integrated Pest Management in Agro-M

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Sylvie Manguin, Ph.D., Research Director (DR2) of IRD
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- <http://www.mpl.ird.fr>
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How contacting me ?



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- **Web site for full informations :** www.anophelines.org

Abbreviations :

CEMAGREF :	National Center for Farm Machinery, (Ministry of Agriculture), Montpellier, Agropolis, France.
CBGP :	Center of Biology & Management of Populations, Montpellier, Agropolis, France.
ENSAM / AgroM:	National School of Agronomical Sciences, Montpellier, Agropolis, France.
INRA :	National Institute of Agronomical Research, Montpellier, Agropolis, France.
IRD :	Research Institute for Development (formerly ORSTOM), research Center of Montpellier, Agropolis, France.
ITV :	Applied Research Institute of Wine, France.
IPG :	Pasteur Institute of French Guiana, French oversea department in south America.
SRPV :	Regional Service of Plant Protection; France.
WHO :	World Health Organization ; Geneva, Switzerland.