

# CURRICULUM VITAE

Name : Calatayud Paul-André  
Place of Birth : France  
Date of Birth : May 15, 1963  
Citizenship : France  
IRD Position : Senior Scientist, Entomologist and Plant Physiologist, insect-plant relationships specialization  
Years of Present Position : 10  
International Experiences before ICIPE: 2 years in Congo (Africa) and 4 years in Colombia (Latin America)  
Professional travel to : Brazil, Holland, Indonesia, Peru, Switzerland  
Languages : French (native language), English and Spanish.

## EDUCATION

1985-1987 Paul Sabatier University, Toulouse, France  
(specialization in Biochemistry and plant physiology)

1988-1989 Claude Bernard University, Lyon, France  
(specialization in biomathematics and statistics)

1990-1993 National Institut of Applied Sciences (INSA), Lyon, France  
Degree : Ph.D  
Major : Entomology and Plant Resistance

## PROFESSIONAL EXPERIENCE BEFORE ICIPE

- 1988-1989 National Institut of Applied Sciences (INSA), Lyon, France  
Research Assistant, Laboratory of Applied Biology, Research on lupin (*Lupinus albus*, Fabaceae) resistance to the aphid (*Macrosiphum albifrons*, Homoptera, Aphididae)
- 1990-1993 IRD (formerly ORSTOM), Brazzaville, Congo  
Research Asistant, Laboratory of Agricultural Zoology, Research on cassava (*Manihot esculenta*, Euphorbiaceae) resistance to the mealybug (*Phenacoccus manihoti*, Homoptera, Pseudococcidae)
- 1993-1997 IRD (formerly ORSTOM), Montpellier, France  
Senior Scientist, Laboratory of Pest Insects, Research on cassava (*Manihot esculenta*, Euphorbiaceae) resistance to the mealybug (*Phenacoccus manihoti*, Homoptera, Pseudococcidae)
- 1997-2001 International Centre for Tropical Agriculture (CIAT), Cali, Colombia  
Senior Scientist, Cassava Entomology Unit, Research on the influence of drought in the relationships between cassava (*Manihot esculenta*, Euphorbiaceae), the mealybug *Phenacoccus herreni* (Homoptera, Pseudococcidae) and its associated parasitoids
- 2001-2002 National Institut of Agronomical Research (INRA), Versailles, France  
Senior Scientist, Phytopharmacy Unit, Research on the relationships between the stemborer *Busseola fusca* (Lepidoptera, Noctuidae) and its host plants

## **AWARDS**

PPE (Plant Protection and Environment Organization) Award, 1994. Awarded by French government for the PhD work

Premio “Francisco Luis Gallego”. Awarded by Sociedad Colombiana de Entomologia, SOCOLEN for outstanding entomological research in support of student thesis. First Prize, 1999.

## **PUBLICATIONS**

### **Book**

P.A. CALATAYUD & B. VERCAMBRE (édit.), 1996. Interactions insectes-plantes. Actes des 5<sup>e</sup> journées du groupe de travail relations insectes-plantes. 26-27 Octobre 1995, Montpellier, France. Collection Colloques, ORSTOM-CIRAD, Montpellier, France, 96 p.

### **Book Chapter**

CALATAYUD P.-A. & MUNERA D.F. 2002. Las defensas naturales en la yuca a las plagas artropodas. In : B. Ospina & H. Ceballos (Eds). La Yuca en el Tercer Milenio : Sistemas Modernos de Produccion, Procesamiento, Utilizacion y Comercializacion. Cali, Colombia.

### **Articles**

CALATAYUD P.A., RAHBE Y., DELOBEL B., KHUONG-HUU F., TERTULIANO M. & LE RÛ B. 1994. Influence of secondary compounds in the phloem sap of cassava on expression of antibiosis towards the mealybug *Phenacoccus manihoti*. Entomologia Experimentalis et Applicata 72 : 47-57.

- CALATAYUD P.A., RAHBE Y., TJALLINGII W.F., TERTULIANO M. & LE RÜ B. 1994. Electrically recorded feeding behaviour of cassava mealybug on host and non-host plants. *Entomologia Experimentalis et Applicata* 72 : 219-232.
- CALATAYUD P.A., TERTULIANO M. & LE RÜ B. 1994. Seasonal changes of secondary compounds in the phloem sap of cassava in relation to plant genotype and to infestation by the cassava mealybug. *Bulletin of entomological Research*, 84 : 453-459.
- CALATAYUD P.A. & LE RÜ B. 1996. Etude des relations nutritionnelles de la cochenille du manioc avec sa plante hôte. *Bulletin de la Société zoologique de France* 121(4) : 391-398.
- CALATAYUD P.A., NARDON C. & RAHBÉ Y. 1996. A new technique to immobilize an aphid or a mealybug on plants using a high-frequency microcautery unit. *Entomologia Experimentalis et Applicata* 80 : 239-241.
- CALATAYUD P.A., BOHER B., NICOLE M. & GEIGER J.P. 1996. Interactions between cassava mealybug and cassava: cytochemical aspects of plant cell wall modifications. *Entomologia Experimentalis et Applicata* 80 : 242-245.
- KPÉMOUA K., BOHER B., NICOLE M., CALATAYUD P.A. & GEIGER J.P. 1996. Cytochemistry of defense responses in cassava infected by *Xanthomonas campestris* pv. *manihotis*. *Canadian Journal of Microbiology*, 42 : 1131-1143.
- CALATAYUD P.A., ROULAND C. & LE RÜ B. 1997. Influence de la linamarine dans la relation manioc-cochenille. *Acta Botanica Gallica*, 144(4) : 427-432.
- CALATAYUD P.A., DELOBEL B., GUILLAUD J. & RAHBÉ Y. 1998. Rearing the cassava mealybug, *Phenacoccus manihoti*, on a defined diet. *Entomologia Experimentalis et Applicata* 86: 325-329.
- RENARD S., CALATAYUD P.A., PIERRE J.S. & LE RÜ B. 1998. Recognition behavior of the cassava mealybug *Phenacoccus manihoti* Matile-Ferrero (Homoptera: Pseudococcidae) at the leaf surface of different host plants. *Journal of Insect Behavior*, 11(3): 429-450.

TERTULIANO M., CALATAYUD P.-A., LE RÜ B.P. 1999. Seasonal changes of secondary compounds in the phloem sap of cassava in relation to fertilisation and to infestation by the cassava mealybug. *Insect Science and its Applications*, 19(1): 91-98.

CALATAYUD P.A., LLOVERA E., BOIS J.F. & LAMAZE T. 2000. Photosynthesis in drought-adapted cassava. *Photosynthetica*, 38(1): 97-104.

CALATAYUD P.A. 2000. Influence of linamarin and rutin on biological performances of *Phenacoccus manihoti* in artificial diets. *Entomologia Experimentalis et Applicata* 96(1): 81-86.

CALATAYUD P.-A., SELIGMANN C.D., POLANIA M.A. & BELLOTTI A.C. 2001. Influence of parasitism by encyrtid parasitoids on the feeding behaviour of the cassava mealybug *Phenacoccus herreni*. *Entomologia Experimentalis et Applicata* 98 : 271-278.

CALATAYUD P.-A., AUGER J., THIBOUT E., ROUSSET S., CAICEDO A.M., CALATAYUD S., BUSCHMANN H., GUILLAUD J., MANDON N. & BELLOTTI A.C. 2001. Identification and synthesis of a kairomone mediating host location by two parasitoid species of the cassava mealybug *Phenacoccus herreni*. *Journal of Chemical Ecology* 27(11) : 2203-2217.

CUELLAR M.E., CALATAYUD P.-A., MELO E.L., SMITH L. & BELLOTTI A.C. 2001. Consumption and oviposition rates of six phytoseiid species feeding on eggs of the cassava green mite *Mononychellus tanajoa* (Acari: Tetranychidae). *Florida Entomologist* 84(4) : 515-520.

CALATAYUD P.-A., BARÓN C.H., VELÁSQUEZ H., ARROYAVE J.A. & LAMAZE T. 2002. Wild *Manihot* species do not possess C4 photosynthesis. *Annals of Botany* 89 : 125-127.

CALATAYUD P.-A., POLANIA M.A., SELIGMANN C.D. & BELLOTTI A.C. 2002. Influence of water-stressed cassava on *Phenacoccus herreni* and three associated parasitoids. *Entomologia Experimentalis et Applicata* 98 : 271-278.

CALATAYUD P.-A., M. A. POLANÍA, J. GUILLAUD, D. F. MÚNERA, J. C. HAMON & A. C. BELLOTTI 2002. Role of single amino acids in phagostimulation, growth, and development of the cassava mealybug *Phenacoccus herreni*. *Entomologia Experimentalis et Applicata* 104 : 363-367.

CORTES M. L., T. SANCHEZ, L. RIIS, A. C. BELLOTTI & P.-A. CALATAYUD 2003. A bioassay to test HCN toxicity to the burrowing bug, *Cyrtomenus bergi*. *Entomologia Experimentalis et Applicata* 109 : 235-239.

STOCK S. P., A. M. CAICEDO & P.-A. CALATAYUD, 2005. *Rhabditis (Oscheius) colombiana* n. sp. (Nematoda: Rhabditidae) a necromenic associate of the subterranean burrower bug *Cyrtomenus bergi* (Hemiptera: Cydnidae) from the Cauca valley, Colombia. *Nematology* (In Press).