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Researcher in Medical Entomology at the Autonomous University of Yucatan (UADY)

Education and Degrees

- 2007:** PhD « *Microbial and Enzymatic Engineering* » (INSA: National Institute of Applied Sciences of Toulouse - University of Toulouse, France).
- 2004:** MSc « *Biology Health Biotechnologies* » with honors (INSA Toulouse, France).
- 2004:** Engineering degree « *Biochemistry and Microbial Genetics* » with honors (INSA Toulouse, France).

Research activities

Since 09/ 2012: Mexico. **Post-doctoral researcher then Research Professor at the Autonomous University of Yucatan (Mérida).**

Ecology and control of Chagas disease vectors (triatomines).

Coordination and realization of field collections, study of the behavioral ecology of Triatoma dimidiata, principal vector in Central America and in Yucatan (host seeking behavior and blood-feeding habits, vector/hosts/parasite/microbiome interactions, domiciliation process and other aspects of the behavior, chemical ecology). Development and implementation of innovative vector control strategies (Ecohealth approach) in different Mayan communities

2011 - 2012: USA. **Post-doctoral researcher at Loyola University New Orleans.**

Ecology and epidemiological risk of the main triatomine species of Louisiana and Central America.

Field collections, determination of the vector competence of the different T. dimidiata lineages, determination of the blood feeding habits of T. sanguisuga, the species responsible for the first described autochthonous case of transmission in Louisiana.

2008 - 2011: Bolivia. **Post-doctoral researcher at the French Institute of Research for Development (IRD).**

Epidemiological implications of wild populations of triatomines and re-infestation mechanisms after vector control in Bolivia.

Coordination and realization of field collections, surveys of rural Bolivian populations, and genetics of the collected triatomine populations.

2004 - 2007: Mexico, **PhD student/researcher at CIATEJ (Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco).**

Contribution to the improvement of the tequila production process by use of enzymes.

Proposal and optimization of an enzymatic treatment of the agave (raw material) cooking juice as an alternative to the chemical treatment, from the laboratory scale to the industrial trials of tequila production.

01-07/2004: France. **MSc training course at the IRD of Montpellier**

Genetic structure of *Leishmania braziliensis* in Bolivia: epidemiological implications.

Population genetics of Leishmania braziliensis, responsible for different clinical manifestations of human leishmaniasis in Bolivia

Teaching activities and Student supervision

Student supervision: Currently supervisor of a post-doctoral fellow from France (since 02/2017), supervision of 3 Master's thesis (one in Bolivia, completed in 2010, two in progress), 3 undergraduate theses (one completed in 2014, two in progress), and supervision of 14 research internships.

Since 2014: Co-teacher of the « **Methods and Tools for Research** » course at the Autonomous University of Yucatan (75-150h/year).

Since 2012: Co-teacher of the « **Research Seminars** » course at the Autonomous University of Yucatan (for postgraduate students, 40-95h/year).

01-05/2012: Teacher of the «**Cells and Heredity Lab**» course at Loyola University New Orleans, USA (42h).

Since 2009: Organizer and Teacher of four international workshops in Bolivia, Paraguay, Mexico and Colombia concerning the population genetic tools for vector and parasites, and the collection of triatomines in wild environment (189h in total)

Publications and Communications

h-index: 13 (Web of Science)

Articles: 31

Published in ISI indexed journals: 29 (including 10 as the first author and 2 as the senior author).

Published in non ISI-indexed journals: 1 (first author)

Published in Memorias: 1 (first author)

Books: 3

As author of the book: 2 (including one as the unique author)

As author of a chapter: 1

Communications: 46 (shared between 17 international and 10 national events)

Communications in international events: **27** including 17 oral communications (12 as the speaker including 7 as guest speaker) and 10 posters (all as the first or corresponding author)

Communications in national events: **19** including 18 oral communications (8 as the speaker including 1 as guest speaker) and 1 poster (corresponding author).

Additional scientific training

2017 : Workshop "Introduction to the study of hematophagous kissing bugs (**Reduviidae: Triatominae**) in Mexico". Mexico, 16h.

2017 : Workshop "NGS, data massive analysis and applications". Mexico, 40h.

2015: Workshop « **Bioinformatics: Transcriptomics, Proteomics, Next Generation Sequencing, and Metabolomics**». Mexico, 55h.

2014: Thematic School « **Ecology, Evolution and Control of Infectious Diseases** ». Mexico, 23 h.

2014: Course « **Ecosystem approach and Vector-borne diseases** ». Capacitation course for training personal in Ecohealth applied to vector-borne diseases. Mexico, 25 h.

2010: Course « **Fundamentals of population genetics** ». Argentina, 35 h.

2010: Workshop « **Using a Geographic Information System, ArcGis** ». Bolivia, 20 h.

2008: International Workshop « **Training in sampling and detection of triatomines** ». Bolivia, 35 h. **2006:** International Workshop « **Characterization of carbohydrates considering the agave plant in particular** ». Mexico, 20 h.

2006: Course « **Theory and practice of sensory evaluation** » Mexico, 30 hours.

2011 - 2016: Reviewer for 13 articles submitted to ISI-indexed journals

Co-organizer of the international symposium "1st TropG Meeting - Tropical Medicine in the Gulf of Mexico", 2015, Mexico.

Reviewer of 22 manuscripts submitted ISI-indexed journals between 2011 and 2018.

Awards and funded projects

Since 2015: 3 projects funded as Principal Investigator.

Grant "PRODEP 2015", Secretaria Mexicana de Educación Pública, 25 000 USD

Grant "Ciencia Básica 2015", CONACYT, 90 000 USD

Grant "Problemas Nacionales 2015", CONACYT, 120 000 USD

2016 : SNI2

2013 : SNI1

2004 : Awarded by one of the two PhD fellowship CIFRE/ANRT 2004 funded by Pernod Ricard for 3 years.

2004 : Awarded by the fellowship of the « Société de Parasitologie Exotique » 2004 to support my initial PhD project.

Language skills

French: mother tongue; **Spanish:** fully fluent; **English:** fluent; **German:** basic skill level