

Curriculum Vitae.

Aude Benlali

Date of birth : 16th of august 1975

Address :170C, Chemin Finette. 97490 Ste Clotilde. Reunion Island. France

Cell phone: +262 (0)692 75 50 75

E-mail : aude.benlali@gmail.com

Education, training courses and professional experience

From April 2016 to now: Engineer in the start-up SymbioTIC. Development of Incompatible Insect Technique through *Wolbachia* infection, for the control of natural populations of the vector *Aedes albopictus*.

Nov. 2015 to January 2016 : Engineer contract for Pablo Tortosa (financing from International Agency for Atomic Energy) : development of *Aedes albopictus* genetic sexing strains.

March to July 2015 : Engineer contract for IRD : *Aedes albopictus* larvae bioassays for insecticide resistance.

2011-2013: **Master degree** in Biochemistry, Molecular Biology, Biotechnologies and Biomedicine with honors at University of La Reunion. Training course at CRVOI: temporal dynamics and evolution of pathogenic *Leptospira* and Paramyxoviruses in a bat maternity colony in La Reunion.

2007-2014: Primary school **teacher**.

1998/2000 : **Research technician** at Skirball Institute of biomolecular medicine, cellular biology department, New York University, New York. United States. Cloning and characterization of a gene involved in the development of the eye of *Drosophila melanogaster*.

1997/1998 : **Master degree in cellular biology and physiology**. University Pierre et Marie Curie (Paris VI). Training as an Erasmus student in Centre of molecular biology of the Universidad Autonoma de Madrid, Spain. Molecular characterization of *thick vein* alleles in *Drosophila melanogaster*.

1996/1997 : **Undergraduate degree in Cell biology and physiology**. University Pierre et Marie Curie (Paris VI).

Technical skills.

Molecular biology : PCR and RT-PCR. Plasmid cloning and sequence editing. Cloning by colony hybridization. Southern and Northern blotting. Plasmidic and genomic DNA preparation.

Drosophilla: EMS mutagenesis. Characterization of complementation groups. Functional complementation by ovocytes micro injection. Dissection of imaginal discs at different developmental stages.

Culicinae: Breeding of *Cx. p. quinquefasciatus* and *Ae. albopictus*. Embryonic micro injection. Measure of *Wolbachia*-mediated Cytoplasmic Incompatibility. Generation of insecticide sensitive and resistant reference strains. *Wolbachia* removal through antibiotic treatments.

Foreign languages.

Fluent in English, good comprehension of Spanish.

Publications

1. **Benlali A**, Draskovic I, Hazelett DJ, Treisman JE. 2000. act up Controls Actin Polymerization to Alter Cell Shape and Restrict Hedgehog Signaling in the Drosophila Eye Disc. *Cell* 101:271–281.
2. Dietrich M, Wilkinson DA, **Benlali A**, Lagadec E, Ramasindrazana B, Dellagi K, Tortosa P. 2015. Leptospira and paramyxovirus infection dynamics in a bat maternity enlightens pathogen maintenance in wildlife. *Environ Microbiol* 17:4280–4289.
3. Janody F, Lee JD, Jahren N, Hazelett DJ, **Benlali A**, Miura GI, Draskovic I, Treisman JE. 2004. A mosaic genetic screen reveals distinct roles for trithorax and polycomb group genes in Drosophila eye development. *Genetics* 166:187–200.
4. Janody F, Martirosyan Z, **Benlali A**, Treisman JE. 2003. Two subunits of the Drosophila mediator complex act together to control cell affinity. *Development* 130:3691–3701.
5. Lebon C, **Benlali A***, Atyame C, Mavingui P, Tortosa P. 2018. Construction of a genetic sexing strain for Aedes albopictus: a promising tool for the development of sterilizing insect control strategies targeting the tiger mosquito. *Parasites & Vectors* 11:658. (* co-1st author)
6. Dietrich M, Gomard Y, Lagadec E, Ramasindrazana B, Le Minter G, Guernier V, **Benlali A**, Rocamora G, Markotter W, Goodman SM, Dellagi K, Tortosa P. 2018. Biogeography of Leptospira in wild animal communities inhabiting the insular ecosystem of the western Indian Ocean islands and neighboring Africa. *Emerg Microbes Infect* 7:57.

Oral Communications

-December 2014, Scientific Days on Emerging Infectious Diseases in th South Western Indian Ocean region. Run Emerge programme (FP7-Regpot).

A glimpse at viral and bacterial dynamics in a bat maternity enlightens pathogen maintenance in wildlife.

Hobbies

Sailing, diving, trekking, theater and music.

Références:

-Jessica Treisman, Skirball Institute of biomolecular medicine, département de biologie cellulaire, New York. Email : jessica.treisman@med.nyu.edu

-Muriel Dietrich, PIMIT. Plateforme de Recherche CYROI. 97490 Ste Clotilde. Email : muriel.dietrich@univ-reunion.fr

-Pablo Tortosa, PIMIT. Plateforme de Recherche CYROI. 97490 Ste Clotilde. Email : pablo.tortosa@univ-reunion.fr