

# Curriculum Vitae

31 August 2019

## EDUCATION

- 2007 Ph.D. in Public Health Sciences and Microbiology, Department of Public Health Sciences, University of Rome “Sapienza”, Italy. Thesis: “*A new sticky-trap for collecting container-breeding mosquitoes: development and evaluation of its properties in sampling Aedes albopictus in Rome and Aedes aegypti in central Thailand*”. Supervisor: Prof. Alessandra della Torre.
- 2003 M.Sc. in Biological Sciences (Hons), “Roma Tre” University, Italy. Thesis: “*The scarab beetles (Coleoptera: Scarabaeoidea) recolonization of a Mediterranean forest after the fire*”. Supervisor: Prof. Giuseppe M Carpaneto.

## POSITIONS HELD

- 2017 to date Liverpool School of Tropical Medicine, Programme Manager/Vector Biologist. To manage international and interdisciplinary projects aimed at studying *Aedes aegypti* behaviour. Line manager: Prof. Philip J McCall.
- 2016 to 2017 Imperial College London, Consultant for the consortium “*Target Malaria*” to provide training and technical support of *Target Malaria* insectary staff in Burkina Faso and Mali.
- 2014 to 2016 University of Perugia, Senior Postdoc in the frame of the project “*Homing Endonuclease Genes: New Tools for Mosquito Population Engineering and Control*” to study the fitness and behavior of transgenic *Anopheles gambiae* lines. Supervisor: Prof. Andrea Crisanti.
- 2013 to 2014 University of Perugia, Senior Postdoc in the frame of the *INFRAVEC* project to study the mating behavior of *An. gambiae*. Supervisor: Dr. Mark Q Benedict.
- 2012 to 2013 University of Rome “Sapienza”, Postdoctoral Researcher in the frame of *EDENext* project aimed at studying *Aedes albopictus* trapping and control methods in Italy. Supervisor: Prof. Alessandra della Torre.
- 2007 to 2011 University of California, Davis, US, and Instituto Nacional de Salud Pública, Tapachula, México. Postdoctoral Researcher/Field Site Manager in the frame of the project “*Genetic Strategies for control of dengue virus transmission*” to study the fitness and behaviour of transgenic *Ae. aegypti* lines. Supervisor: Prof. Thomas W Scott.
- 2004 and 2006 “Pasteur Institute-Cenci Bolognetti Foundation” fellowship, University of Rome “Sapienza”, Italy, to study insecticide resistance in *An. gambiae*. Supervisor: Prof. Alessandra della Torre.

## TEACHING

Achievement of the *Professional Certificate in Supporting Learning* in Higher Education SEDA (Staff Educational and Development Association) UK.

Lectures on Vector Ecology at University of Rome “Sapienza”, Instituto Nacional de Salud Pública, Tapachula, México, and Liverpool School of Tropical Medicine, UK (Diploma in Tropical Medicine and Hygiene, and Master in Tropical Disease Biology).

Supervision of MSc students at University of Rome “Sapienza”, University of Perugia, and Liverpool School of Tropical Medicine, UK.

Training of technical personnel at Instituto Nacional de Salud Pública, Tapachula, México, Centro Amazónico de Investigación y Control de Enfermedades Tropicales, Puerto Ayacucho, Venezuela, and IRSS/Centre Muraz, Bobo-Dioulasso, Burkina Faso.

GRANTS 2019-2022 MRC-BBSRC. Title: “Indoor behaviour maps to guide arbovirus vector control”. Co-PI (50% attribution).

2018-2019 MRC-UK Proximity to Discovery. Title: “Home-based arbovirus prevention: exploiting basic mosquito behaviour to optimise insecticide delivery”. Co-PI (50% attribution).

2018-2019 Consultancy Agreement UNILEVER R&D. Title: “Soap repellent Bioassays” (50% attribution).

20015-2016 IAEA Collaboration Agreement. Title: “Developing a pheromone baited trap for collecting males and virgin females of the malaria vector species belonging to the *Anopheles gambiae* complex”, (100% attribution).

REVIEWER Transactions of the Royal Society of Tropical Medicine and Hygiene, PLOS ONE, PLOS NTDs, Malaria Journal, Medical and Veterinary Entomology, Journal of Insect Science, Tropical Medicine and Health, Journal of Vector Ecology, American Journal of Tropical Medicine and Hygiene, and Insects.

AWARDS ACME Student Travel Award to support travel and accommodation costs for graduate students attending the annual *American Society for Tropical Medicine and Hygiene (ASTMH)* meeting, Atlanta, Georgia, 11-17 November 2006.

PATENTS Adhesive trap for mosquitoes (WO/2006/126235). PAT. NO. PCT/IT2006/000389 del 30.11.2006. Owner: AMA DISINFESTAZIONI S.R.L. Vicolo Savini snc, 00146 Roma, Italy.

#### NATIONAL SCIENTIFIC HABILITATION

Number of papers last 5 years: 11                      Citations last 10 years: 380                      H index-10: 11

#### INVITED PRESENTATIONS/WORKSHOPS (last 5 years)

FNIH workshop “Data Needs and Assay Design for Decision Making on Gene Drive-Modified Mosquitoes”, 6-7 May 2019, Newport Beach, CA

EU Zikalliance Workshop on “Best Practices and Guidelines for SIT application against *Aedes* spp”, 8-11 April 2019, IRD, Montpellier, France.

“The laboratory-to-field transition of transgenic mosquito vectors”. *54<sup>th</sup> Meeting of the Brazilian Society of Tropical Medicine*, Workshop on Genetics and Molecular Biology of Insect Vectors, 2-6 September 2018, Recife, Brazil.

Genetic strategies for controlling vector borne diseases: The Lab to Field transition. *Italian Society of Entomology and Italian Academy of Entomology*, “Novità e prospettive nello studio di artropodi vettori di patogeni” Florence, 18 November 2016.

“Targeting mosquito reproductive mechanisms to develop innovative control tools”. *ASL Umbria Region “Malattie da vettore e Zika virus – Prevenzione e Comunicazione”*, Perugia, 21 April 2016.