Department: Institute of Vine and Wine Sciences (ICVV)

Group Name: *Sustainable Management of Vine Pests and Diseases*

Acronym: *SOS-vid*

Group Coordinator: Campos Herrera, Raquel

ANEP Area(s): Plant and animal biology, ecology; Agriculture

Telephone: 941894980 ext. 410102

E-mail: raquel.cmapos@icvv.es

Website: www.icvv.es

Department Report: 01/11/2018

RESEARCH TEAM **Number of researchers: 8**

Researcher	Department	Professional category
Campos Herrera, Raquel	ICVV	Ramón y Cajal
Andrés Sodupe, Marcos	ICVV	Predoctoral
Berlanas Vicente, Carmen	ICVV	Predoctoral
Blando Pérez, Rubén	ICVV	Predoctoral
Bujanda Muñoz, Rebeca	ICVV	Contracted Project
Gramaje Pérez, David	ICVV	Doctor on Contract
López Manzanares, Beatriz	ICVV	Contracted Project
Maldonado González, María Mercedes	ICVV	Contracted Project

COLLABORATORS **Nº of collaborators: 0**

Collaborators	Department	Professional category

Lines of research

Diseases of grapevine wood.
Biological insect control agents: entomopathogenic nematodes.
Innovation in molecular techniques (NGS, qPCR, dPCR) for rapid identification of target organisms and characterisation of functional biodiversity.
Integrated vineyard management (physical, chemical and biological methods).
Interaction vine/plague-disease/control agent.
Epidemiological models for the prediction of grapevine pests and diseases.

Scientific and technological offer

Molecular characterisation (NGS, qPCR, dPCR) of the functional biodiversity of vineyards (bacteria, fungi, nematodes).
Characterisation of the genetic and structural diversity of the populations of fungal pathogens associated with diseases in grapevine wood.
Evaluation of multitrophic plant/plague-pathogen/biological control agent interactions.
Implementation of integrated control protocols based on physical and biological methods in vine nurseries.
Evaluation of the efficiency of habitat modification actions to improve the management of vine pests and diseases.
Development of rapid and reliable assessment methods to identify sources of fungal resistance of grapevine wood.
Development of innovative biological control tools against vine pests.
Evaluation of epidemiological models of oidium prediction in vineyards in La Rioja.

National and international relations

Dr. Dario Cantu, UC Davis, California (USA).
Sequencing and annotation of the Cadophora luteo-olivacea genome.
Dr. Stephan Compant, Austrian Institute of Technology (Austria).
Sequencing of the genome of Dactylonectria torresensis
Dr. Pedro Crous, Westerdijk Fungal Biodiversity Institute (Netherlands).
Taxonomy and systematics of isolated vine Diaporthe spp. in Europe.
Dr. Lidia Dionisia, Universidade do Algarve, Faro (Portugal).
Microbial ecology; entomopathogenic fungi.
Dr. Larry W. Duncan, University of Florida (FL, USA).
Integrated management of citrus fruits; ecology of entomopathogenic nematodes.
Dr Florence Fontaine, Reims (France).
Gene expression of Tempranilla clones tolerant to fungal infection of vine wood.
Dr. Geoffrey Jaffuel, University of Neuchâtel (Switzerland).
Chemical ecology of insects. Entomopathogenic nematodes and parasitic snail nematodes.
Dr. Lizel Mostert, University of Stellenbosch (South Africa).
Genetic structure of populations of the fungus Phaeoacremonium parasiticum.
Dr Vladimir Püfa, SEZNAM (Czech Republic).
Taxonomy of nematodes, ecology of entomopathogenic nematodes.
Dr. Patrice Rey, INRA Bordeaux (France).
Application of biocontrol strategies for diseases of vine wood.
Dr. Ales Schmeier, University of Brno (Czech Republic).
Metatransciptomica applied to vine plants treated by thermotherapy with hot water.
Dr. Mark Sosnowski, SARDI (Australia).
Effect of abiotic stress conditions on the expression of vine wood disease symptoms.
Dr. Ted C.J. Turlings, Université de Neuchatel (Switzerland).
Chemical ecology of insects. Plant-insect-beneficial organism interations.
Dr. José Ramón Úrbez-Torres, Government of Canada (Canada).
Effect of abiotic stress conditions on the expression of vine wood disease symptoms.