

Personal Information

Name: **Miguel Ángel Navarro-Roldán**
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 Country: Spain

**Academic Background**

2014 - 2017: **Ph.D. in Entomology.** University of Lleida, Spain
 2012 - 2013: **M.Sc. in Occupational Risk Management.** University of Alicante, Spain
 2007 - 2008: **M.Sc. in Crop Ecosystem Management.** University Miguel Hernández, Spain
 2002 - 2007: **B.Sc. in Environmental Sciences.** University Miguel Hernández, Spain

Research Experience

Jan. 2017- Feb. 2017 **Biochemical analysis of enzymatic activities in different moth-pest species.** PSH - Plantes et Systèmes de cultures Horticoles (INRA), France
 Apr. 2011- Mar. 2012 **Phenotypical plasticity and local adaptation in *Rosmarinus officinalis*, a mediterranean key species.** CIDE - Desertification Research Centre (CSIC), Spain
 Nov. 2008- Jan. 2009 **Quality assessment of irrigated crop soils with treated wastewater.** University Miguel Hernández, Spain
 Jan. 2007 - June 2007 **Medium and long-term quality assessment in Mediterranean fire-affected soils.** University Miguel Hernández, Spain
 July 2006 - July 2008 **IPM strategies on pest control of red palm weevil (*Rynchophorus ferrugineus*).** Phoenix Station and University Miguel Hernández, Spain

Research Publications

Navarro-Roldán MA and Gemenó C (2017) Sublethal effects of neonicotinoid insecticide on calling behaviour and pheromone production of tortricid moths. *Journal of Chemical Ecology*. <https://doi.org/10.1007/s10886-017-0883-3>
Navarro-Roldán MA, Avilla J, Bosch D, Valls J and Gemenó, C (2017) Comparative effect of three neurotoxic insecticides with different modes of

action on adult males and females of three tortricid moth pests. J Econ Entomol. tox113. doi: 10.1093/jee/tox113

Recent Presentations at Scientific Meetings

- 2016 **Navarro-Roldán MA** and Gemenio C. "Female moth pheromone production and release are affected by sublethal doses of neonicotinoid insecticide". Oral Communication. 9th International Conference on Integrated Fruit Production. Greece, Sep. 4-8th
- 2016 **Navarro-Roldán MA**, Avilla J, Bosch D, Valls J and Gemenio C. "Mortality dose-response curves of three neurotoxic insecticides on males and females of three tortricid moths". Poster Communication. Pherotox Symposium. France, Jan. 11th
- 2015 **Navarro-Roldán MA**, Avilla J, Bosch D and Gemenio C. "Mortality dose-response curves of three neurotoxic insecticides on males and females of three tortricid moths". Oral Communication. IX National Congress of Applied Entomology. Spain, Oct. 16 - 23th

Awards

- 2016 "International Organisation for Biological and Integrated Control - IOBC. Best student paper award". 9th International Conference on Integrated Fruit Production. Greece, Sep. 4-8th
- 2014 "Spanish Society of Project Management and Engineering - AEIPRO. Master thesis-work award". 18th International Congress on Project Management and Engineering. Spain, July 16-18th
- 2013 Best Master thesis student in Occupational Risk Management. University of Alicante, Spain
- 2008 Best Master thesis student in Crop Ecosystem Management. University Miguel Hernández, Spain
- 2007 Best undergraduate student in Environmental Sciences. University Miguel Hernández, Spain

Skills

Preparation and analysis of chemical samples: pheromone gland extraction, GC-FID, volatile blends

Behavioural test: pheromone emission, flight in wind tunnel, video track analysis of insect flight

Biochemical: determination of enzymatic activities

Toxicological: mortality dose-response curves, metabolic-enzyme inhibition

R-environment: data handling and plotting, standard statistical analysis

Insect rearing: tortricid moths (*C. pomonella*, *G. molesta*, *L. botrana*), mediterranean fruit fly (*C. capitata*), palm weevil (*R. ferrugineus*)

Languages

Spanish (mother language)

English B2 (Common European Framework of Reference - from A1 to C2 levels scale)

Contact information of professional referees

Dr. César Gemenó. University of Lleida, Spain. cesar.gemenó@pvcf.udl.cat

Dra. Myriam Siegwart. French National Institute for Agricultural Research - INRA, France. myriam.siegwart@inra.fr

Dr. Jesús Avilla. University of Lleida, Spain. avilla@pvcf.udl.cat