



# Jesús Avilla

## Catedràtic d'Universitat

### Datos personales



**Categoría:** Catedràtic d'Universitat

**Àrea de conocimiento:** Entomologia

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### Formación Académica

- Enginyer Agrònom, Universitat Politècnica de Madrid (UPM), 1978
- Doctorat, UPM, 1982

### Experiencia Profesional

- 1982- 1986. Titular d'Universitat, Universitat de Lleida (UdL)
- 1984- 1985. Becari postdoctoral, Wye College, University of London.
- 1986- 1999. Titular de Universitat, UPC i UdL
- 1999 - actualitat, Catedràtic d'Universitat, UdL

### Investigación

- Control integrat de plagues de fruiters.

### Docencia

- ENTOMOLOGIA AGRÍCOLA Màster Universitari en Protecció Integrada
- PRODUCTES FITOSANITARIS Màster Universitari en Protecció Integrada
- PROGRAMES DE PROTECCIÓ INTEGRADA DE CULTIUS Màster Universitari en Protecció Integrada
- INTRODUCCIÓ A LA METODOLOGIA DE LA INVESTIGACIÓ CIENTÍFICA Màster Universitari en Protecció Integrada
- PROTECCIÓ AVANÇADA DE FRUITERS Màster Universitari en Fruticultura



## Publicaciones Recientes

- Rodríguez-Gasol, N.; Avilla, J.; Alegre, S.; Alins, G.- *Sphaerophoria rueppelli* adults change their foraging behavior after mating but maintain the same preferences to flower traits. *BioControl* 64: 149–158. 2019. 10.1007/s10526-019-09928-2.
- Rodríguez-Gasol, N.; Avilla, J.; Aparicio, Y.; Arnó, J.; Gabarra, R.; Riudavets, J.; Alegre, S.; Lordan, J.; Alins, G.- The Contribution of Surrounding Margins in the Promotion of Natural Enemies in Mediterranean Apple Orchards. *Insects* 10, 148: 1-14. 2019. 10.3390/insects10050148.
- Bosch, D.; Avilla, J.; Musleh, S.; Rodríguez, M.- Target-site mutations (*AChE* and *kdr*), and PSMO activity in codling moth (*Cydia pomonella* (L.) (Lepidoptera: Tortricidae)) populations from Spain. *Pesticide Biochemistry and Physiology* 146: 52-62. 2018. 10.1016/j.pestbp.2018.02.010.
- Bosch, D.; Rodríguez, M.; Depalo, L.; Avilla, J.- Determination of the baseline susceptibility of European populations of *Cydia pomonella* (Lepidoptera: Tortricidae) to chlorantraniliprole and the role of mixed function oxydases. *Journal of Economic Entomology*. 2018. 10.1093/jee/toy020.
- Bosch, D.; Rodríguez, M.; Avilla, J.- Monitoring resistance of *Cydia pomonella* (L.) Spanish field populations to new chemical insecticides and the mechanisms involved. *Pest Management Science* 74: 933-943. 2018. 10.1002/ps.4791.
- Alins, G.; Alegre, S.; Avilla, J.- Alternative to azadirachtin to control *Dysaphis plantaginea* Passerini (Hemiptera: Aphidae) in organic apple production. *Biological Agriculture & Horticulture*: 1-12. 2017. <http://dx.doi.org/10.1080/01448765.2017.1333454>.
- Navarro-Roldán, M.A.; Avilla, J.; Bosch, D.; Valls, J.; Gemeno, C.- Comparative effect of three neurotoxic insecticides with different modes of action on adult males and females of three tortricid moth pests. *Journal of Economic Entomology*: 1–10. 2017. <http://dx.doi.org/10.1093/jee/tox113>.
- Depalo, L.; Masetti, A.; Avilla, J.; Bosch, D.; Pasqualini, E.- Toxicity and residual activity of spinetoram to neonate larvae of *Grapholita molesta* (Busck) and *Cydia pomonella* (L.) (Lepidoptera: Tortricidae): Semi-field and laboratory trials. *Crop Protection* 89: 32-37. 2016. Holanda. <http://dx.doi.org/10.1016/j.cropro.2016.06.019>
- Bosch, D.; Rodríguez, M.; Avilla, J.- Captures of MFO-resistant *Cydia pomonella* adults as affected by lure, crop management system and flight. *Bulletin of Entomological Research* 106:54-62. 2016. EE.UU. DOI: 10.1017/S0007485315000772.
- Giner, M.; Balcells, M.; Avilla, J. Antenna elicitation and behavioral responses of oriental fruit moth, *Grapholita molesta*, to allyl cinnamate. *African Journal of Biotechnology* 13(50): 4536-4540. 2014.
- Giner, M.; Balcells, M.; Avilla, J. Antennal and Behavioral Response of *Cydia pomonella* and *Lobesia botrana* Moths to Allyl Cinnamate. *Advances in Crop Science and Technology* 2: 155. doi:10.4172/2329-8863.1000155. 2014.
- Giner, M.; Avilla, J.; De Zutter, N.; Ameye, M.; Balcells, M.; Smagghe, G. 2013. Insecticidal and repellent action of allyl esters against *Acyrtosiphon pisum* (Hemiptera: Aphididae) and *Tribolium castaneum* (Coleoptera: Tenebrionidae). *Industrial Crops and Products* 47: 63–68.
- Mouron, P.; Heijne, B.; Naef, A.; Strassemeier, J.; Hayer, F.; Avilla, J.; Alaphilippe, A.; Höhn, H.; Hernandez, J.; Mack, G.; Gaillard, G.; Solé, J.; Sauphanor, B.; Patocchi, A.; Samietz, J.; Bravin, E.; Lavigne, C.; Bohanec, M.; Golla, B.; Scheer, C.; Aubert, U.; Bigler, F. 2012. Sustainability assessment of crop protection systems:



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Giner, M.; Balcells, M.; Avilla, J. 2012. Insecticidal action of five allyl esters on eggs and larvae of three tortricid fruit pests: laboratory tests. *Bulletin of Insectology* 65: 63-70.

Rodríguez, M.; Bosch, D.; Avilla, J. 2012. Azinphos-methyl and carbaryl resistance in adults of the codling moth (*Cydia pomonella* (L.), Lepidoptera: Tortricidae) from Northeastern Spain. *Pesticide Biochemistry and Physiology* 103: 43–48.

Peñarrubia-Maria, E.; Avilla, J.; Escudero-Colomar, L.A. 2012. Survival of wild adults of *Ceratitis capitata* (Wiedemann) under natural winter conditions in North East Spain. *Psyche*. Article ID 497087, 6 pages. doi: 10.1155/2012/497087.

Comas, C.; Avilla, J.; Sarasúa, M.J.; Albajes, R.; Ribes-Dasi, M. 2012. Lack of anisotropic effects in the spatial distribution of *Cydia pomonella* pheromone trap catches in Catalonia, NE Spain. *Crop Protection* 34: 88-95.

Giner, M.; Avilla, J.; Balcells, M.; Caccia, S.; Smaghe, G. 2012. Toxicity of allyl esters in insect cell lines and in *Spodoptera littoralis*. *Archives of Insect Biochemistry and Physiology* 79: 18-30.

Muñoz, L.; Bosch, M.P.; Batllori, L.; Rosell, G.; Bosch, D.; Guerrero, A.; Avilla, J. 2011. Synthesis of allylic trifluoromethyl ketones and activity as inhibitors of the sex pheromone of the leopard moth, *Zeuzera pyrina* L. (Lepidoptera: Cossidae). *Pest Management Science* 67: 956–964.

Varela N., Avilla J., Anton S., Gemeno C. 2011. Synergism of pheromone and host-plant volatile blends in the attraction of *Grapholita molesta* (Busck) (Lepidoptera: Tortricidae). *Entomologia Experimentalis et Applicata* 141: 114–122.

Rodríguez M., Marques T., Bosch D., Avilla J. 2011. Assessment of insecticide resistance in eggs and neonate larvae of *Cydia pomonella* (Lepidoptera: Tortricidae). *Pesticide Biochemistry and Physiology* 138:184-192.

Rodríguez M., Bosch D., Avilla J. 2011. Resistance of Spanish codling moth (*Cydia pomonella*) populations to insecticides and activity of detoxifying enzymatic systems. *Entomologia Experimentalis et Applicata* 138: 184–192.

Varela N., Avilla J., Gemeno C., Anton S. 2011. Ordinary glomeruli in the antennal lobe of male and female tortricid moth *Grapholita molesta* (Busck) (Lepidoptera: Tortricidae) process sex pheromone and host plant volatiles. *Journal of Experimental Biology* 214:637-645.

Fernández D.E., Cichón L., Garrido S., Ribes-Dasi M., Avilla J. 2010. Comparison of lures loaded with codlemone and pear ester for capturing codling moths, *Cydia pomonella*, in apple and pear orchards using mating disruption. *Journal of Insect Science* 10:1-12

Rodríguez M., Bosch D., Sauphanor B., Avilla J. 2010. Susceptibility to Organophosphate Insecticides and Activity of Detoxifying Enzymes in Spanish Populations of *Cydia pomonella* (Lepidoptera: Tortricidae). *Journal of Economic Entomology* 103:482-491.

Escriba M., Barbut M., Eras J., Canela R., Avilla J., Balcells M. 2009. Synthesis of Allyl Esters of Fatty Acids and



Their Ovicidal Effect on *Cydia pomonella* (L.). *Journal of Agricultural and Food Chemistry* 57:4849-4853.

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