



# Carmen López Alonso

## Técnica Cualificada Investigación

### Datos Personales



**Categoría:** Técnica Cualificada Investigación

**Area de conocimiento:** Entomología

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### Formación Académica

- Technical Engineer (Graduate in Agronomy), "Escuela Universitaria de Ingeniería Técnica Agrícola de Lleida". Polytechnic University of Catalonia (UPC), 1986
- Agronomist. ETSEA of Lleida. UPC, 1992
- Ph.D. in Agronomy, ETSEA of Lleida. UPC, 1998

### Experiencia Profesional

- Technical Engineer in a Plant Defense Association. 1987-1988
- Research Collaborator. IRTA 1992-1999
- PQS (Qualified Staff to support research). University of Lleida 1999-actualidad

### Publicaciones Recientes

#### Insects & Bt maize

López C, Zanga D, Juárez-Escario A, Muñoz P, Eizaguirre M. Parental effects of Bt toxin and vitamin A on *Helicoverpa armigera*. PLoS One. **2022** Jul 6;17(7):e0269585.



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Sarai Giron-Calva, Patricia; Lopez, Carmen; Albacete, Alfonso; Albajes, Ramon; Christou, Paul; Eizaguirre, Matilde. **2021**. Beta-carotene and *Bacillus thuringiensis* insecticidal protein differentially modulate feeding behaviour, mortality and physiology of European corn borer (*Ostrinia nubilalis*). PLOS ONE 16 (2): e0246696 DOI 10.1371/journal.pone.0246696

Zhu, C., Farre, G.; Zanga, D.; Lloveras, J.; Michelena, A.; Ferrio, J. P.; Voltas, J.; Slafer, G.; Savin, R.; Albajes, R.; Eizaguirre, M.; Lopez, C.; Cantero-Martinez, C.; Diaz-Gomez, J.; Nogareda, C.; Moreno, J. A.; Angulo, E.; Estany, J.; Pena, R. N.; Tor, M.; Portero-Otin, M.; Eritja, N.; Arjo, G.; Serrano, J. C. E.; Matias-Guiu, X.; Twyman, R. M.; Sandmann, G.; Capell, T.; Christou, P. **2018**. High-carotenoid maize: development of plant biotechnology prototypes for human and animal health and nutrition. *Phytochemistry Reviews* 17 (2): 195-209. DOI 10.1007/s11101-017-9506-4

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Lopez, C.; Munoz, P.; Perez-Hedo, M.; Moralejo, M.; Eizaguirre, M. **2017**. How do caterpillars cope with xenobiotics? The case of *Mythimna unipuncta*, a species with low susceptibility to Bt. *Annals of Applied Biology* 171: 364-375. DOI 10.1111/aab.12380

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Lopez, Carmen; Hernandez-Escareno, Gerardo; Eizaguirre, Matilde; Albajes, Ramon. **2013**. Antixenosis and larval and adult dispersal in the Mediterranean corn borer, *Sesamia nonagrioides*, in relation to Bt maize. *Entomologia Experimentalis et Applicata* 149 (3): 256-264 DOI 10.1111/eea.12131

Perez-Hedo, Meritxell; Reiter, Daniel; Lopez, Carmen; Eizaguirre, Matilde. **2013**. Processing of the maize Bt toxin in the gut of *Mythimna unipuncta* caterpillars. *Entomologia Experimentalis et Applicata* 148 (1):56-64 DOI 10.1111/eea.12074

Perez-Hedo, M.; Lopez, C.; Albajes, R.; Eizaguirre, M. **2012**. Low susceptibility of non-target Lepidopteran maize pests to the Bt protein Cry1Ab. *Bulletin of Entomological Research* 102 (6): 737-743. DOI 10.1017/S0007485312000351

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transgenic Bt-maize: A farm scale study. *European Journal Entomology* 102: 73-79  
Eizaguirre M, López C, Albajes R. **2005**. Sublethal effects of *Bacillus thuringiensis* on larval development in *Sesamia nonagrioides* *Journal of Economic Entomology* 98 : 237-247.

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### Forest pests

López, C.; Las Heras, S.; Garrido-Jurado, I.; Quesada-Moraga, E.; Eizaguirre, M. Survey of Natural Enemies of the Invasive Boxwood Moth *Cydalima perspectalis* in Southwestern Mediterranean Europe and Biocontrol Potential of a Native *Beauveria bassiana* (Bals.-Criv.) Vuill. Strain. *Insects* **2022**, 13, 781. <https://doi.org/10.3390/insects13090781>

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### Pheromone

Lopez-Alonso, M. Eizaguirre, R. Albajes. **2011**. Short communication. Mutual pheromone antagonism in two sympatric corn borers, *Sesamia nonagrioides* and *Ostrinia nubilalis*, under field conditions. *Spanish Journal of Agricultural Research*, 9

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### Diapause:



Schafellner C, Eizaguirre M, López C, Sehna F. **2008**. Juvenile hormone esterase activity in the pupating and diapausing larvae of *Sesamia nonagrioides*. *Journal of Insect Physiology* 54(6):916-921

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## **Insect Dispersal**

Lopez, Carmen; Hernandez-Escareno, Gerardo; Eizaguirre, Matilde; Albajes, Ramon. **2013**. Antixenosis and larval and adult dispersal in the Mediterranean corn borer, *Sesamia nonagrioides*, in relation to Bt maize. *Entomologia Experimentalis et Applicata* 149 (3): 256-264 DOI 10.1111/eea.12131

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Más información (Consultes GREC [ <http://webgrec.udl.cat/cgi-bin/DADREC/crgen.cgi?FONT=3&IDI=CAT&PID=367567&IDNC=201210161350170> ])