

CV Date

01/02/2024

## Part A. PERSONAL INFORMATION

First Name	BALTASAR		
Family Name	ESCRICHE SOLER		
Sex	Male	Date of Birth	
ID number			
URL Web	<a href="http://www.uv.es/~genbqbt/indexval.htm">http://www.uv.es/~genbqbt/indexval.htm</a>		
Email Address	baltasar.escriche@uv.es		
Open Researcher and Contributor ID (ORCID)	0000-0003-4889-793X		

### A.1. Current position

Job Title	CATEDRÁTICO DE UNIVERSIDAD		
Starting date	2018		
Institution	Universitat de València		
Department / Centre	UNIV. INSTITUTE BIOTECHNOLOGY AND BIOMEDICINE (BIOTECMED) / FACULTAT DE CIÈNCIES BIOLÒGIQUES		
Country	Spain	Phone Number	
Keywords			

### A.3. Education

Degree/Master/PhD	University / Country	Year
Doctor en CC. Biológicas	Universitat de València	1995

## Section B. SUMMARY OF THE CURRICULUM

Baltasar Escriche is the director of the Master in Genetics and Molecular and Cellular Biology at the University of Valencia and belongs to the research group of Biotechnological Control of Pests (CBP), <http://www.cbp.com.es/>. He was graduated in Biology in 1985 and founded the research on the bacterium *Bacillus thuringiensis* in the CBP group in 1990 with the experimental work of his Ph.D. Thesis. Several aspects of *Bacillus thuringiensis* have been studied, with a continuous interest on discovering new bioactive proteins and improve the characterization of the already identified. New agents are essential to be prepared for resistance and to broaden the bioagents application. Currently, he applies many approaches to discover new applications from the protein, bacteria, insects, or plants, incorporating novel systems such as genomics, but without losing the basis of looking for the best alternatives to pest control. He contributed to more than 70 publications that can exemplify some of these aspects. He has participated in over 50 projects. In fact, in the last 5 years, he has participated in 12 projects funded by different sources, including different national and international public institutions, and research agreements with both national and multinational companies.

## Part C. RELEVANT ACCOMPLISHMENTS

### C.1. Most important publications in national or international peer-reviewed journals, books and conferences

- 1 **Scientific paper.** Bel Y; Andrés-Antón M; Escriche B. (3/3). 2023. Abundance, distribution, and expression of nematocidal crystal protein genes in *Bacillus thuringiensis* strains from diverse habitats. 913188 - International Microbiology. 26, pp.295-308. ISSN 1139-6709. <https://doi.org/10.1007/s10123-022-00307-z>
- 2 **Scientific paper.** Fionna Knecht; Yolanda Bel; Dafne Toledo; Giseller Grabenweger; Baltasar Escriche (AC). (5/5). 2023. Effect of *Bacillus insecticidal* proteins on the Japanese beetle, *Popillia japonica* (Scarabaeidae). 033356 - Agricultural Research & Technology. Juniper Publishers. 27-4, pp.556375. ISSN 2471-6774. <https://doi.org/10.19080/ARTOAJ.2023.27.556375>
- 3 **Scientific paper.** Ayda Khorramnejad; Yolanda Bel; Reza Talaei-Hassanloui; Baltasar Escriche (AC). (4/4). 2022. Activation of *Bacillus thuringiensis* Cry1I to a 50 kDa stable core impairs its full toxicity to *Ostrinia nubilalis*. 900457 - Applied Microbiology and Biotechnology. 106, pp.1745-1758. ISSN 0175-7598. <https://doi.org/10.1007/s00253-022-11808-2>
- 4 **Scientific paper.** Bel Y; Galeano M; Baños-Salmeron M; Escriche B. (4/4). 2022. The use of *Bacillus thuringiensis* to control plant-parasitic nematodes. 033268 - Journal of Plant Science and Phytopathology. Heighten Science Publications Corporation. 6, pp.62-64. ISSN 2575-0135. <https://doi.org/10.29328/journal.jpssp.1001076>
- 5 **Scientific paper.** Khorramnejad A; Gomis-Cebolla J; Talaei-Hassanlouei R; Bel Y; Escriche B.(5/5). 2020. Genomics and Proteomics Analyses Revealed Novel Candidate Pesticidal Proteins in a Lepidopteran-Toxic *Bacillus thuringiensis* Strain. 917480 - Toxins. 12-11. ISSN 2072-6651. <https://doi.org/10.3390/toxins12110673>

### C.3. Research projects and contracts

- 1 **Project.** ALTERNATIVE BIOPESTICIDES FOR SAFE INTEGRATED PEST AND WATER MANAGEMENT ROUND MEDITERRANEAN. European Union, NextGeneration EU. (Universitat de València). 01/06/2023-31/05/2026. 150.000 €.
- 2 **Project.** PID2021-122914OB-I00, OPTIMIZANDO LOS BIOINSECTICIDAS BASADOS EN BACILLUS THURINGIENSIS PARA EL CONTROL DE ESPECIES EUROPEAS DE SPODOPTERA Y COMBATIR LA AMENAZA DE SPODOPTERA FRUGIPERDA EN ESPAÑA. Ministerio de Ciencia e Innovación. (Universitat de València). 01/09/2022-31/08/2025. 278.300 €.
- 3 **Project.** PROMETEO/2020/010, Nuevas aproximaciones al modo de acción de proteínas insecticidas de *Bacillus thuringiensis*. DIRECCION GENERAL DE CULTURA Y PATRIMONIO - CONSELLERIA D'EDUCACIO, INVESTIGACIO, CULTURA I ESPORT - GVA. (UVEG). 08/07/2020-31/05/2024. 245.000 €.
- 4 **Project.** 773554, Stacking of ecosystem services: mechanisms and interactions for optimal crop protection, pollination enhancement, and productivity (EcoStack). Unión Europea. (Universitat de València). 24/07/2018-09/03/2024. 380.000 €.