

ABBREVED CURRICULUM VITAE (CVA) – maximum 4 PAGES

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Part A. PERSONAL INFORMATION

CV date

12/01/2025

First and Family name	Jordi Riudavets		
ID number	46125088Z	Age	59
Researcher codes	Open Research & Contributor ID (ORCID)	0000-0002-7839-0323	
	Scopus Author ID	55898590800	
	WoS Researcher ID	J-3035-2012	

A.1. Current position

Name of Institution	Institut de Recerca i Tecnologia Agroalimentaries (IRTA)		
Department	Sustainable Plant Protection Program		
Address and Country	Centre Cabrils, Ctra. Cabrils, km 2, 08348, Cabrils, Spain		
Phone number	937507511	E-mail	Jordi.riudavets@irta.cat
Current position	Plant Area Coord. & Program Head	From	2025 & 2021
Key words	Entomology, Integrated Pest Management, Biological Control, Ecology, Rearing of insects, Identification		

A.2. Education

PhD, Licensed, Graduate	University	Year
Biological Sciences (PhD)	Universitat de Lleida	1995
Biology (BSc)	Universitat de Barcelona	1988

A.3. General indicators of quality of scientific production

Total SCI research articles (WOS-JCR Core Collection) = 73

h index: 24 (WOS-JCR); 26 (Scopus); 33 (Google Scholar)

Sum of Times Cited: 1687 (WOS-JCR); 1997 (Scopus)

Average Citations per Year (last 5 years): 184 (WOS-JCR)

PhD thesis supervised = 7 (plus 2 on-going)

Part B. CV SUMMARY

Entomologist with experience in research, development and transfer of Integrated Pest Management (IPM) programs in vegetables, fruit trees and stored products. His main field of expertise is related to the implementation of biological control of insect and mite pests as an alternative to the use of chemical plant protection products. He has also contributed to the improvement of other various alternative tools to pesticides, such as modified atmospheres, volatile bioactives or physical methods, and of monitoring, detection and identification of pest species. His research also includes the study of basic aspects of the biology and ecology of pests and their natural enemies, and the development of arthropods rearing methods. Concerning stored products, his group is unique in Spain with a continuous research activity in this field since 1996 and expanding their connections at a European and international level. He has representation in 3 international committees: on behalf of Spain in the committee on alternatives to methyl bromide of the Montreal protocol (UNEP), as convenor of the IOBC working group on Integrated Protection of Stored Products, and as member of the Controlled Atmospheres and Fumigation of Stored Products Permanent Committee. Among the research studies in this area, it is worth mentioning those aimed at establishing the basis for the development of biological control in stored products. Regarding horticultural crops he has been involved in the development of IPM programs that are commercially applied with great success in crops such as tomatoes, lettuce and cucurbits in an increasing number of hectares in the Mediterranean. Recently he has been transferring this knowledge to fruit crops such as peach and apple, where biological control is less developed. He has been participating in more than

60 research projects with public funding (EU, National and Local Government) and 50 research contracts with several private companies. He is the author of 230 scientific and divulgation papers, with 73 publications in peer review journals, and 4 patents. He has been invited to give oral presentations at 21 congresses and symposia. He has supervised 7 PhD students and 18 undergraduate and master's students. He has been chosen as President of the Spanish Society of Applied Entomology and to be a member of the editorial committee of three international scientific journals that are in the first quartile of the discipline of Entomology: Journal of Stored Products Research (since 2012), Entomologia Generalis (since 2019) and Journal of Pest Science (from 2008 to 2010). His research and technology transfer activities have been combined with various responsibilities in the organisational and scientific structure of IRTA. From 2009 to 2011 he was Director of the Applied Entomology Operating Unit at IRTA, which included 6 researchers, and from 2011 to 2017 Director of the Entomology Sub-Programme, which included 11 researchers from four Centres and Experimental Stations of IRTA. In parallel, from 2014 to 2017 he was the Manager of the Sustainable Plant Protection Programme. Since 2021 he is the Head of the Sustainable Plant Protection Program at IRTA which included 22 researchers and several laboratory technicians and pre-doctoral fellows. Since 2025 he has been appointed Coordinator of the Plant Area at IRTA.

Part C. RELEVANT MERITS

C.1. Publications (10)

1. del Arco, L; Castañé, C; Riudavets, J (2025). Biological control of pests of stored cereals with the predatory mites *Blattisocius tarsalis* and *Cheyletus malaccensis*. Journal of Pest Science. doi.org/10.1007/s10340-024-01857-z.
2. del Arco, L; Riudavets, J; Castañé, C (2024). *Cephalonomia tarsalis* (Hymenoptera: Bethyridae) for the control of the sawtoothed grain beetle, either alone or in combination with the predatory mite *Blattisocius tarsalis*. Journal of Stored Products Research 105, pp.102250. doi.org/10.1016/j.jspr.2024.102250
3. Parsons, J; Lopes, MS; Riudavets, J (2024). Dispersal ability of the predatory mites *Blattisocius tarsalis* and *Cheyletus malaccensis* in grain piles and storage facilities. Journal of Stored Products Research 109, 102460. doi.org/10.1016/j.jspr.2024.102460
4. Riudavets, J; Martínez-Ferrer, MT; Campos-Rivela, JM; Agustí, N; Castañé, C (2024). Dispersal of the parasitoid *Habrobracon hebetor* in storage warehouses. Journal of Stored Products Research 105, 102231. https://doi.org/10.1016/j.jspr.2023.102231
5. Urbaneja-Bernat, P; Riudavets, J; Denis, C; Ojeda, J; Alomar, O; Arnó, J (2024). *Lobularia maritima* as a nutrient-rich floral food source for two parasitoid wasps of *Tuta absoluta*. Entomologia Generalis 44(2), 339-346. doi.org/10.1127/entomologia/2024/2299
6. Riudavets, J; Belda, C; Castane, C (2023). Impact of the Parasitoids *Anisopteromalus calandrae* (Howard) and *Lariophagus distinguendus* (Forster) on Three Pests of Stored Rice. Insects 14(4), 355. DOI: 10.3390/insects14040355
7. del Arco, L; Riudavets, J; Campos Rivela, JM; Martinez Ferrer, MT; Agustí, N; Castañé, C (2023). Effectiveness of the parasitoid *Anisopteromalus calandrae* (Hymenoptera: Pteromalidae) in the control of *Sitophilus zeamais* and *Rhyzopertha dominica* in paddy rice. Biological Control 181, pp.105216. DOI: 10.1016/j.biocontrol.2023.105216
8. Adler, C; Athanassiou, C; Carvalho, MO; Emekci, M; Gvozdenac, S; Hamel, D; Riudavets, J; Stejskal, V; Trdan, S; Trematerra, P (2022). Changes in the distribution and pest risk of stored product insects in Europe due to global warming: Need for pan-European pest monitoring and improved food-safety. Journal Of Stored Products Research 97, 101977. DOI: 10.1016/j.jspr.2022.101977
9. Bourne-Murrieta, LR; Iturralde-Garcia, RD; Wong-Corral, FJ; Castane, C; Riudavets, J (2021). Effect of packaging chickpeas with CO2 modified atmospheres on mortality of

Callosobruchus chinensis (Coleoptera: Chrysomelidae). Journal of Stored Products Research 94, 101894-. DOI: 10.1016/j.jspr.2021.101894

10. Riudavets, J; Martinez-Ferrer, MT; Campos-Rivela, JM; Agusti, N; Castane, C (2021). Releases of the parasitoid *Anisopteromalus calandrae* (Hymenoptera: Pteromalidae) can control *Sitophilus zeamais* (Coleoptera: Curculionidae) in big bags of paddy rice. Biological Control 163, 104752-. DOI: 10.1016/j.biocontrol.2021.104752

C.2. Research projects (10)

1. Mejora de la gestión integrada de *Drosophila suzukii*. MICINN Proyectos de Transición Ecológica y Transición Digital. Jordi Riudavets/Judit Arnó. 2023-2024. 138.000 €.
2. Test PCR para la detección de insectos plaga en productos almacenados. MICINN Proyectos pruebas de concepto. Nuria Agustí. 2023-2024. 120.550 €.
3. Mejora del control biológico de plagas de artrópodos en arroz almacenado. MICINN RTA-PID. Jordi Riudavets/Nuria Agustí. 2022-2025. 169.400 €.
4. EU-China joint action to increase development and adoption of IPM tools. HORIZON-CL6-2021-FARM2FORK-01-19. Nikolas Desneux (INRAE). 2022- 2026. 382.681 €.
5. Gestión Integrada de Plagas basada en el control biológico en grano almacenado. INIA RTI. 2019 - 2021. Cristina Castañé. 185.130 €
6. Gestió del reg i micorrizació en cultius hortícoles. DARP. Projectes pilot innovadors en productivitat i sostenibilitat agrícola per part de Grups Operatius. 2018-2020. 107.700 €
7. Métodos alternativos de control de mosquitos en el cultivo de champiñón. Gobierno de La Rioja. Grupos Operativos de la AEI. Jordi Riudavets/Judit Arnó. 2017-2020. 50.000 €
8. Obtención de componentes bioactivos para el sector agroalimentario mediante procesos de bioconversión y biorefinería de subproductos de origen animal y vegetal. CIEN – CDTI. Massimo Castellari. 2018-2021. IRTA 80.000 €.
9. Métodos de control y contención de *Trioza erytreae*, vector del huanglongbing de los cítricos RTA-INIA. Alberto Urbaneja. 2017-2020. 105.000 €.
10. Avances en el Control Integrado de plagas en cultivos hortofrutícolas MINECO. Judit Arnó. 2017-2019. 140.000 €.

C.3. Contracts, technological or transfer merits (10)

1. Introducció d'insectes com a eina biotecnològica per a l'economia circular dels residus de la indústria alimentària – CIRCULARINSECT (NUCLI). Cooperativa Conca de la Tordera. Jordi Riudavets. 01/01/2023 – 31/12/2024. 46.000 €.
2. Susceptibilidad a la penetración por insectos a diferentes envases de alimentos para mascotas. Affinity Petcare S.A. Nuria Agustí. 2022 – 2024. 4.150+4.300+8.150+3.250 €.
3. Estrategias innovadoras para el almacenamiento y procesamiento del arroz: control integrado de plagas basado en control biológico CIPARROZ (CDTI). Arrocería Pons S.A. Jordi Riudavets. 01/01/2019 - 30/09/2021. 68.250 €
4. Estrategias innovadoras en campo y postcosecha que permitan obtener frutas y verduras con atributos diferenciales de sostenibilidad, calidad y seguridad alimentaria (CDTI). Agrícola Maresme SXXI SAT. Carla Casals. 29/10/2018 - 28/02/2021. 81.000 €
5. Producción hortícola sostenible mediante la promoción de organismos beneficiosos: abejas polinizadoras, insectos enemigos naturales de las plagas y micorrizas simbiotas (CDTI). Vercamp. Oscar Alomar. 01/04/2018 - 30/05/2021. 90.000 €
6. Evaluación de la eficacia de dos ácaros depredadores sobre el eriófido *Vasates lycopersici* (CDTI). Agrocontrol. Cristina Castañé. 01/01/2018- 28/02/2019. 63.000 €.
7. Storage of chestnuts in big bags with CO₂ modified atmospheres Air Products. Jordi Riudavets. 23/10/2017-23/04/2018. 7.000 €.

8. Evaluación de las capturas en trampas de ácaros de la especie *Dermanyssus gallinae* Merck Sharp & Dohme Animal Health S.L. España. Jordi Riudavets. 02/10/2017-30/11/2024. 13.000 € per year.
9. Integración de Recursos Biológicos en la Producción Hortícola. Agrícola Maresme SEGLE XXI SAT. Jordi Riudavets. 01/05/2016-30/09/2017. 58.333 €.
10. Nitrogen for Pest Management. Air Products. Jordi Riudavets. 01/02/2016-30/10/2016. 25.000 €.

C.4. Patents

1. Maria Soledad Martos; Carlota Poschenrieder; Naira Agustí; Jordi Riudavets; Rosaria Medda; Francesca Pintus; Delia Spanò. EP17382369.1. Plant-based pesticide obtained from the Euphorbia characias L. España. 16/06/2017. Universitat Autònoma de Barcelona/IRTA/University Cagliari.
2. Jordi Riudavets; Rosa Gabarra; Cristina Castañé; Oscar Alomar; Sonia Guri; Francisco J. Sánchez. EP08382036.5. Process for eradication of pests in an agricultural product. 21/04/2010. S.E. de Carburos Metálicos. Air Products.
3. Jordi Riudavets; Francisco J. Sánchez; Oscar Alomar; Rosa Gabarra. 2004/0088. Process for the control of pests in stored products. 18/07/2002. S.E. de Carburos Metálicos.

C.5 Institutional responsibilities

1. Plant Area Coordinator. IRTA. 2025 – present.
2. Head of the Sustainable Plant Protection Program. IRTA. 2021 – present.

C.6 Membership of scientific societies

1. President of the Spanish Society for Applied Entomology (SEEA).
2. Member of the Methyl Bromide Technical Options Committee, Ozone Secretariat (UNEP).
3. Convenor of the Integrated Protection in Stored Products Working Group (IOBC/WPRS).

C.6 PhD Thesis supervised

1. Consuelo Belda Ravert. Bases para el establecimiento de un programa de control integrado de plagas en la industria agroalimentaria. Universitat de Lleida. 2013.
2. Maria José Pons Veiga. Las atmósferas modificadas integradas con otras tecnologías como alternativas sostenibles para el control de plagas en productos alimentarios almacenados. Universitat de Lleida. 2014.
3. Mireia Sola Cassi. El control biológico de las plagas que afectan a los cereales almacenados y sus derivados. Universitat Autònoma de Barcelona. 2018.
4. Rey David Iturralde. El control biológico de las plagas que afectan a los granos de leguminosas. Universitat Politècnica de Catalunya. Co-supervisor Cristina Castañé. 2020.
5. Carmen Denis López. Mejora del control biológico por conservación de las plagas que afectan a los cultivos hortofrutícolas. Univ. Barcelona. Co-supervisor Judit Arnó. 2021.
6. M.C. Luz Raquel Bourne Murrieta. Uso de atmosferas modificadas durante el almacenamiento del garbanzo y su efecto en la mortalidad de *Callosobruchus maculatus* (Coleóptera: Bruchidae), calidad del grano y la expresión de genes relacionados con la capacidad antioxidante. Universidad de Sonora (Hermosillo, México). 2022.
7. Lidia del Arco Gómez. Gestión integrada de plagas basada en el control biológico en grano almacenado. Univ. Autònoma de Barcelona. Co-supervisor Cristina Castañé. 2024.
8. Julia Parsons. Integrated pest management in cereals and legumes: Biological control and resistant varieties. Universitat de Lleida. Co-supervisor Marta da Silva Lopes. On-going.
9. Meriem Dehmani. Mejora del control biológico de plagas de artrópodos en arroz almacenado. Universitat Autònoma de Barcelona. Co-supervisor Nuria Agustí. On-going.