

CV JORDI RECASENS GUINJUAN

Jordi Recasens Guinjuan. DNI 40861465. Lleida (Spain) 28th November 1957.

Current position: Full professor. University of Lleida

Indicators

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SCOPUS Author ID: 36876296200; SCOPUS h-index: 22; Num articles: 74; citations: 1542

WoS Researcher ID: B-3970-2011.; WoS h-index: 20; Num articles 71, citations: 1382

I have recognized four periods of research (the last in 2020), and one period of transference (2020). In the last 10 years I have supervised seven PhD and published 48 articles, 33 in the first quartile (Q1), with a total of 1355 citations (210 citations/year in the last 5 years)

CV Summary

I'm full professor on Agricultural Botany and Weed Science at the School of Agricultural Engineering and Forestry of the University of Lleida (UdL) where I teach "Agricultural Botany" and "Crop Protection" in the Agronomy degree, and "Weed Science" in the master of Integrated Crop Protection. I have made two post-docs stays in INRA Dijon (France) (1992) and in Agriculture Canada in Québec (Canada) (1994). I'm the coordinated of the official consolidated research group of Weed Science and Plant Ecology (UdL) since 2002 (www.grem.udl.cat)

My research experience addresses weed biology, weed ecology and integrated weed management (IWM) in agricultural systems. The firsts studies were focused on biology and population dynamics of noxious weeds in winter cereals (*Bromus diandrus*, *Lolium rigidum*, *Polygonum aviculare* and *Galium aparine*) carrying out three projects and supervising three PhD (9 articles). In a second period, two projects developed different aspects of biology, and management of *Papaver rhoeas* (seed dormancy, population dynamics, response to different chemical and mechanical methods, characterization of herbicide resistant biotypes) supervising three PhD (10 articles). Another PhD was developed on integrated management of *Bromus diandrus* in direct drilling and conservation agriculture systems (3 articles). In 2005, the orientation of the research was exploring biological attributes to uncover the ecological goods of weeds that can be used as ecosystems services in crop production. Two projects supported the study of the efficiency of environmental schemes applied in dry land agricultural systems analysing the plant diversity at spatial and functional scale (two PhD and 7 articles) and the role of granivorous ants on weed seed predation (one PhD and 9 articles). In the last years, my research is focused on the balance between efficiency and sustainability in the control of noxious or herbicide resistant weeds in vineyards integrating chemical, cultural and mechanical methods. In vineyards the implementation of cover crops and mulches, and its effect on weed population dynamics permitted to focus more deeply on the effect of soil management on the vineyard system. This research has been supported by four projects (3 IP) supervising two PhD (7 articles).

In summary, a total of 12 PhD supervised in 40 years of research. I have participated in a total of 14 official projects (National Program of AEI) (12 as IP), one INIA project, one PETRI, One LIFE EU project (IP), two Era-net projects (one IP) and one Integrated Action (IP). A total of 73 articles published in SCI journals (48 in Q1), 8 books, 21 book chapters (one international in Springer), 19 articles in national scientific journals and 80 articles in scientific magazines. A singular activity of transference has been carried out in the last 15 years with different agrochemical companies (BAYER, MONSANTO, DOW AGROSCIENCES, SYNGENTA, DUPONT, SIPCAM, BASF, ARAGRO, SAPEC-AGRO, NUFARM, CORTEVA) with a total economic income of 400.000€. In 2020 a University-Company Chair has been created in UdL with the company CORTEVA. I have been guest editor for "Spanish Journal of Agricultural Research" and reviewer of more than 40 articles for the journals Weed Research, Weed Science, Soil Tillage Research, Spanish Journal of Agricultural Research, Acta Oecologica, Seed Science, Crop Protection, Agriculture, Ecosystems and Environment, Industrial Crops and Products. Invited professor in the International courses

organized by CIHEAM (IAM Zaragoza), and in Masters on Crop Protection organized by Universidad de Sevilla (2017) and Universidad de Córdoba (2015 and 2016). Furthermore, more than 80 short courses on weed science has been taught for companies in different places of Spain and Portugal.

I was the president of the Spanish Weed Science Society (SEMh) (2007-2010), the vice-president of the Spanish Society of Crop Health (AESAVE) (2012-2017) and member of the board of the European Weed Research Society (EWRS) (2011-2013). The EWRS has entrusted our group of research with the organization the European Symposium in Lleida in 2025 with me being the President of the Local Committee

In 2020 the group of research created the SpinOff IPMAdvice with the aim to commercialize and maintenance the software IPMwise, a decision support system that includes a large dataset that allows it to choose the best options to manage weeds and reduce the use of herbicides. The University of Lleida and the Agrotecnio Center are the current SpinOff's shareholders.

More relevant publications:

- 1- C. Cabrera-Pérez, A. Royo-Esnal, B. Català, B. Baraibar, **J. Recasens** (2023). Cover crops terminated with roller crimper to manage *Cynodon dactylon* and other weeds in vineyards. *Pest Management Science*. <https://doi.org/10.1002/ps.7953>
- 2- **J. Recasens**, C. Cabrera, B. Baraibar, A. Royo-Esnal (2023). Dynamics of *Cynodon dactylon* and weed community composition in different cover crops in a vineyard. *Weed Research* 63: 261-269.
- 3- C. Cabrera-Pérez, J. Llorens, A. Escolà, A. Royo-Esnal, **J. Recasens** (2023). Organic mulches as an alternative for under-vine weed management in Mediterranean irrigated vineyards: Impact on agronomic performance. *European Journal of Agronomy* 145, (2023) 126798.
- 4- C. Cabrera-Pérez, **J. Recasens**, B. Baraibar, A. Royo-Esnal (2022). Emergence modelling of 18 species susceptible to be used as cover crops in Mediterranean semiarid vineyards. *European Journal of Agronomy* 132 (2022) 126413.
- 5.- A. Alignier, X.O. Solé-Senan, I. Robleño,... P. Batáry. **(9/49)** (2020). Increasing compositional and configurational crop heterogeneity contributes to enhancing within-field plant diversity. *Journal of Applied Ecology* 57(4): 654-663.
- 6.- A.I. de Castro, J.M. Peña, J. Torres-Sánchez, F.M. Jiménez-Brenes, F. Valencia-Gredilla, **J. Recasens** and F. López-Granados (2020). Mapping *Cynodon dactylon* infesting cover crops with an automatic Decision Tree-OBIA procedure and UAV imagery for precision viticulture. *Remote sensing* 12(1): 56.
- 7.- F. Valencia-Gredilla, A. Royo-Esnal, A. Juárez-Escario, **J. Recasens**. Different ground vegetation cover management system to control *Cynodon dactylon* in irrigated vineyard. *Agronomy Basel* (2020), 10, 908.
- 8.- C. Sirami @, N. Gross, A. B. Baillod...L. Fahrig **(28/48)** (2019). Increasing crop diversity and decreasing field size enhance multidiversity across agricultural regions. *(PNAS) Proceedings of the National Academy of Sciences*, vol 116, issue 33. 29 July 2019. Manuscript ID: 2019-06419R
- 9.- F. Valencia-Gredilla, M. L. Supiciche, G. R. Chantre, **J. Recasens**, A. Royo-Esnal (2019). Germination behaviour of *Conyza bonariensis* to constant and alternating temperatures across different populations. *Annals of Applied Biology* 176: 36-46.
- 10.- X. Solé-Senan, A. Juárez-Escario, J.A. Conesa, **J. Recasens** (2018). Plant species functional assemblages and partitioning of diversity in a Mediterranean agricultural mosaic landscape. *Agriculture Ecosystems and Environment* 256: 163-172.