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Catedràtic d'Universitat

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Categoria: Catedràtic d'Universitat

Àrea de coneixement: Agronomia

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Formació Acadèmica

- Enginyer agrònom, Universitat Politècnica de Catalunya (UPC), 1984
- Doctorat en Agronomia, UPC, 1989

Experiència Professional

- 1983 - 1998. Titular d'Escola Universitària. Universitat de Lleida (UdL)
- 1998 - 2009. Titular de Universitat, UdL
- 2009 - actualitat. Catedràtic de Universitat, UdL

Recerca

- Agronomia sostenible per a zones mediterrànies: Optimització de la fertilització nitrogenada en cultius herbacis extensius.
- Agronomia del conreu de conservació.



- **C u l t i u s** **a l t e r n a t i u s .**
- Aplicació integrada de tècniques agronòmiques per a l'optimització de la productivitat agrícola en sistemes **a g r í c o l e s** **m e d i t e r r à n i s .**
- Manteniment i Desenvolupament de la Biodiversitat.

Docència

- PRÀCTIQUES INTEGRADES:ENGINYERIA I GESTIÓ **Grau en Enginyeria Agrària i Alimentària**
- DE LA PRODUCCIÓ AGROPECUARIA **Grau en Enginyeria Agrària i Alimentària**
- PRÀCTIQUES INTEGRADES:ENGINYERIA I GESTIÓ **Grau en Enginyeria Agrària i Alimentària**
- TECNOLOGIA DE CULTIUS HERBACIS **Grau en Enginyeria Agrària i Alimentària**
- PROGRAMES DE PROTECCIÓ INTEGRADA DE CULTIUS **Màster Universitari en Protecció Integrada de Cultiu**
- AGRONOMIA:SISTEMES AGRÍCOLES **Màster Universitari en Protecció Integrada de Cultiu**

Publicacions Recents

Álvaro-Fuentes J, Arrúe JL, Carlos-Martínez C, Isla R, Plaza-Bonilla, Quilez D. 2016. Fertilization scenarios in sprinkler irrigated corn under Mediterranean conditions: effects on greenhouse gas emissions. *Soil Science Society of America Journal* 80: 662–671 DOI:10.2136/sssaj2015.04.0156

Lampurlanés, J.; Plaza-Bonilla, D.; Álvaro-Fuentes, J.; Cantero-Martínez, C. 2016. Long-term analysis of soil water conservation and crop yield under different tillage systems in Mediterranean rainfed conditions. *Field Crops Research*, 189: 59-67 DOI: 10.1016/j.fcr.2016.02.010.

Recasens J., Garcia Al., Cantero-Martinez C., Torra J., Royo-Esnal A. 2016. Long-term effect of different tillage systems on the emergence and demography of *Bromus diandrus* in rainfed cereal fields. *Weed research*, 56:31-40. DOI: 10.1111/wre.12185.

Plaza-Bonilla D., Arrue JI., Cantero-Martinez C., Fanlo R., Iglesias A., Alvaro-Fuentes C. 2015. Carbon management in dryland agricultural systems. A review. *Agronomy for Sustainable Development*, 35:1319-1334. DOI: 10.1007/s13593-015-0326-x

Castañeda-Vera A., Leffelaar Pa., Alvaro-Fuentes J., Cantero-Martinez C., Minguez I. 2015. Selecting crop models for decision making in wheat insurance. *European Journal for Agronomy*, 68: 97-116. DOI:10.1016/j.eja.2015.04.008.

Cardador L., De Caceres M., Giralt D., Bota G., Aquilué N., Arroyo B., Mougeot F., Cantero-Martinez C., Viladomiu L, Rosell J., Casas F., Estrada A., Alvaro-Fuentes J., Brotons L. 2015. Tools for exploring habitat suitability for steppe birds under land use change scenarios. *Agriculture, Ecosystems and Environment*, 200:119-125.DOI:10.1016/j.agee.2014.11.013.



- Garcia Al., Royo-Esnal A., Torra J., Cantero-Martinez C., Recasens J. 2014. Integrated management of Bromus Diandrus in dryland cereal fields under no-til. Weed Research: 54- 408-417. DOI:10.1111/wre.12088
- Plaza-Bonilla D., Cantero-Martinez C., Bareche J., Arrue JI. Álvaro-Fuentes J. 2014. Soil C fluxes, biomass-C inputs and soil carbon stocks as affected by tillage and N fertilization in dryland conditions. Plant and Soil. 381-111-130. DOI 10.1007/s11104-014-2115-8
- Cardador L., Caceres M., Bpta G., Giralt D., Casas F., Arroyo B., Mougeot F., Cantero-Martinez C., Moncunill J. Butlers S., Brotons L. 2014. A Resource-Based Modelling Framework to Assess Habitat Suitability for Steppe Birds in Semiarid Mediterranean Agricultural Systems. PLoS ONE 9(3): e92790. doi:10.1371/journal.pone.0092790
- Plaza-Bonilla D., Álvaro-Fuentes J., Arrue JI., Cantero-Martinez C. 2014. Tillage and nitrogen fertilization effects on nitrous oxide yield-scaled emissions in a rainfed Mediterranean área. Agriculture, Ecosystems and Environment, 189:43-52.
- Plaza-Bonilla D., Álvaro-Fuentes J., Cantero-Martinez C. 2014. Identifying soil organic carbon fractions sensitive to agricultural management practices. Soil and Tillage Research 139:19-22.<http://dx.doi.org/10.1016/j.still.2014.01.006> [<http://dx.doi.org/10.1016/j.still.2014.01.006>].
- Plaza Bonilla D., Álvaro-Fuentes J., Hansen Nc., Lampurlanes J., Cantero-Martinez C. 2014. Winter cereal root growth and aboveground-belowground biomass ratios as affected by site and tillage system in dryland Mediterranean conditions. Plant and Soil, 374: 925-939. DOI10.1007/s11104-013-1926-3.
- Plaza-Bonilla D., Cantero-Martinez C., Alvaro-Fuentes J. 2014. Soil management effects on soil greenhouse gases production at the macroaggregate scale. Soil Biology & Biochemistry. 68-471-481. <http://dx.doi.org/10.1016/j.soilbio.2013.10.026> [<http://dx.doi.org/10.1016/j.soilbio.2013.10.026>]
- Alvaro-Fuentes J., Plaza-Bonilla D., Arrue JI., Lampurlanes J., Cantero-Martinez C., 2014. Soil organic carbon storage in a no-tillage chronosequence under Mediterranean conditions. Plant and Soil, 376:31-4. DOI 10.1007/s11104-012-1167-x.
- Albajes R., Cantero-Martinez C., Capel T., Christou P., Galceran J., Lopez-Gatius F., Marin S., Martin-Belloso O., Motilva Mj., Nogareda C., Peman J., Puy J., Recasens J., Romagosa I., Romero Mp., Vanchis V., Savin R., Slafer G., Soliva-Fortuny R., Viñas I., Voltas J. 2013. Building bridges: an integrated strategy for sustainable food production throughout the value chain. Molecular Breeding, 32-743-770. DOI 10.1007/s11032-013-9915-z.
- Álvaro-Fuentes J., Morell F.J., Madejon E., Lampurlanes J., Arrue JI., Cantero-Martinez C. 2013. Soil biochemical properties in a semiarid Mediterranean agroecosystem as affected by long-term tillage and N fertilization Soil and Tillage Res., 129: 69-74.
- Plaza-Bonilla D., Cantero-Martinez C., Álvaro-Fuentes J. 2013. Soil aggregate stability as affected by fertilization type under semiarid no-tillage conditions. Soil Science Society of America Journal. 77:284-292.
- Plaza-Bonilla D., Cantero-Martinez C., Viñas P., Álvaro-Fuentes J. 2013. Soil aggregation and organic carbon protection in a no-tillage chronosequence under Mediterranean conditions. Geoderma, 193-194: 76-82. DOI:10.1016/j.geoderma.2012.10.022 [<http://dx.doi.org/10.1016/j.geoderma.2012.10.022>].
- Alvaro-Fuentes J., Morell Fj., Plaza-Bonilla D., Arrue JI., Cantero-Martinez C., 2012. Modelling tillage and nitrogen fertilization effects on soil organic carbon dynamics. Soil and Tillage Res., 120: 32-39.



Morell Fj., Whitmore Ap., Àlvaro-Fuentes J., Lampurlanes J., Cantero-Martinez C. 2012. Root respiration of barley in a semiarid Mediterranean agroecosystem: field and modelling approaches. *Plant and Soil*, 351:135-143.

Morell Fj., Lampurlanes J., Àlvaro-Fuentes J., Cantero-Martinez C. 2011 Yield and water use efficiency of barley in a semiarid Mediterranean agroecosystem: Long-term effects of tillage and N fertilization. *Soil and Tillage Res.*, 117: 76-84.

Àlvaro-Fuentes J., Easter M., Cantero-Martínez C., Paustian K. 2011. Modelling soil organic carbon stocks and their changes in the northeast of Spain. *European Journal of Soil Science*, 62:685-695.

Cantero-Martínez C., Moncunil J. 2011. Anàlisi agronòmica i ambiental dels cultius cerealístics de secà de la plana de Lleida. Ed. Universitat de Lleida. Lleida. pp. 73. ISBN. 978-84-695-0985-2.

Morell F.J., Cantero-Martínez C., Alvaro-Fuentes J., Lampurlanes J. 2011. Root growth of barley as affected by tillage systems and N fertilization in a semiarid Mediterranean agroecosystem. *Agronomy Journal* 103:1270-1275.

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Lampurlanes, J., Cantero-Martínez, C. 2006. Hydraulic conductivity, residue cover, and soil surface roughness under different tillage systems in semiarid conditions. *Soil and Tillage Research* 85: 13-26.

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Cantero, C., Angás, P., Gregori, J., Marti, S., Cortes, C. 2006. Experiencias sobre fertilización nitrogenada bajo sistemas de laboreo de conservación en el Valle del Ebro. *Tierras de Castilla y León*.

Cantero, C., Lampurlanes, J., Angás, P. 2005. La acumulación del agua en el suelo y su utilización por el cultivo en agricultura de conservación. *Tierras de Castilla y León*.

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different tillage systems on two soils in semiarid conditions. *Field Crops Research* 69: 27-40

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