



Roxana Savín

Catedràtica Contractada

Personal Information



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Position: Catedràtica Contractada

Area of expertise: Agronomia

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University degrees

- Doctorat, Universitat de Melbourne, Australia, 1996
- Magister Scietiae, Universidad de Buenos Aires, Argentina, 1993
- Enginyera Agrònoma, Universidad de Buenos Aires, Argentina, 1988

Previous activities

- 1998 – 2003. Docente e investigadora, Càtedra de Cerealicultura, Departamento de Producción Vegetal, Facultad de Agronomía, Universidad de Buenos Aires.
- 1998 – 2003. Investigadora de la Carrera de Investigador Científico del CONICET (Consejo Nacional de Investigaciones Científicas y Técnicas de Argentina).
- 2003 – 2005. Investigadora Ramón y Cajal del Departament de Producció Vegetal i Ciència Forestal de la



U n i v e r s i t a t d e L l e i d a .

· 2005-2017. Professora Agregada Permanent del Departament de Producció Vegetal i Ciència Forestal de la

U d L .

· 2017-Actualitat. Catedràtica contractada, Departament de Producció Vegetal i Ciència Forestal de la UdL

Research

La meua investigació es centra a ampliar la comprensió actual de les bases fisiològiques del rendiment i la qualitat dels principals cultius, especialment els cereals (i) *Desenvolupament del cultiu*. interrelacions entre el desenvolupament i el rendiment. (ii) *Creixement del cultiu*: acumulació i partició de matèria seca, economia de nitrogen, relacions hídriques, equilibris source-sink. (iii) *Qualitat del gra*: respostes a estressos ambientals, acumulació i ràtios de components particulars.

Teaching

- APLICACIONES BIOTECNOLÒGIQUES PER A LA MILLORA DE LA PRODUCTIVITAT DELS CULTIUS Grau en Biotecnologia
- CULTIUS EXTENSIUS Grau en Enginyeria Agrària i Alimentària
- TECNOLOGIES DE LA PRODUCCIÓ VEGETAL Grau en Enginyeria Agrària i Alimentària
- MILLORA DE CARACTERS ESPECÍFICS Màster Universitari en Millora Genètica Vegetal

Recent Publications

Research ID C-7646-2011; **Orcid code** 0000-0002-4811-5021

H-index=24 (Web of Science-Core Collection), Setembre 2017

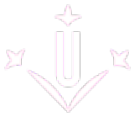
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Pedro, A.; **Savin, R.**, Habash, D.Z. & Slafer, G.A., 2011 Physiological attributes associated with yield and stability in selected lines of a durum wheat population. *Euphytica* 180: 195-208.

Cossani, M.C., Slafer, G.A. & **Savin, R.**, 2012. Nitrogen and water use efficiencies of wheat and barley under a Mediterranean environment in Catalonia. *Field Crops Research* 128:109-118.



Pedro, A., **Savin, R.**, Parry, M. & Slafer, G.A., 2012. Selection for high grain number per unit stem length through four generations from mutants in a durum wheat population to increase yields of individual plants and crops. *Field Crops Research* 129: 59-70.

Ferrante, A., **Savin, R.** & Slafer, G.A., 2012. Differences in yield physiology between modern, well adapted durum wheat cultivars grown under contrasting conditions. *Field Crops Research* 136: 52-64.

Pedro, A., **Savin, R.**, & Slafer, G.A., 2012. Crop Productivity as related to single-plant traits at key phenological stages in Durum wheat. *Field Crops Research* 138: 42-51.

Ferrante, A., **Savin, R.** & Slafer, G.A., 2013. Floret development and grain setting differences between modern durum wheats under contrasting nitrogen availability. *Journal of Experimental Botany* 64: 169-184.

Ferrante, A., **Savin, R.** & Slafer, G.A., 2013. Is floret primordia death triggered by floret development in durum wheat?. *Journal of Experimental Botany* 64:2859-2869.

Serrago, R.A., Alzuelta, I., **Savin, R.** & Slafer, G.A., 2013. Understanding grain yield responses to source-sink ratios during grain filling in wheat and barley under contrasting environments. *Field Crops Research* 150: 42-51.

Albajes R, Cantero C., Capell T., Christou P., Galceran J., Lopez-Gatius F., Marin S, Martin O., Motilva Ma-J., Nogareda C., Peman J., Puy J., Recasens J., Romagosa I., Romero Ma-P., Sanchis V., **Savin R.**, Slafer GA, Soliva R., Vinyas I., Voltas J. 2013. Building bridges: An integrated strategy for sustainable food production throughout the value chain. *Molecular Breeding* 32:743–770.

Hall. A.J., **Savin, R.** & Slafer, G.A., 2014. Is time to flowering in wheat and barley influenced by nitrogen?. A critical appraisal of recent published reports. *European Journal of Agronomy* 54:40-46.

Slafer, G.A., **Savin, R.** & Sadras, V.O., 2014. Coarse and fine regulation of wheat yield components in response to genotype and environment. *Field Crops Research* 157: 71–83.

Abeledo, L.G., **Savin, R.** & Slafer, G.A., 2014. Leaf photosynthesis during grain filling under Mediterranean environments: are barley or traditional wheat more efficient than modern wheats? *Journal of Agronomy & Crop Science* 200:172-182.

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Slafer, G.A., Elia, M., **Savin, R.**, García, G.A., Terrile, I.I., Ferrante, A., Miralles, D.J. & González, F.G., 2015. Fruiting efficiency: an alternative trait to further rise wheat yield. *Food and Energy Security* 4:92-109. (DOI 10.1002/fes3.59)

Ordóñez, R.A. **Savin, R.**, Cossani, C.M. & Slafer, G.A., 2015. Yield response to heat stress as affected by nitrogen availability in maize. *Field Crops Research* 183: 184-203.

Elazab, A., Ordóñez, R.A., **Savin, R.**, Slafer, G.A & Araus, J.L., 2016. Detecting interactive effects of N fertilization and heat stress on maize productivity by remote sensing techniques. *European Journal of Agronomy* 73: 11-24.



Elia, M., **Savin, R.** & Slafer, G.A., 2016. Fruiting efficiency in wheat: physiological aspects and genetic variation among modern cultivars. *Field Crops Research* 191: 83-90.

Mayer, L., **Savin, R.**, Maddonni, G.A., 2016. Heat stress during grain filling modifies kernel protein composition in field-grown maize. *Crop Science* 56: 1890-1903.

Zanga, D., Capell, T., Slafer, G.A., Christou, P., **Savin, R.**, 2016. A carotenogenic mini-pathway introduced into white corn does not affect development or agronomic performance. *Sci Report* 6, Article number: 38288 doi:10.1038/srep38288.

Ferrante, A., Cartelle, J., **Savin, R.**, Slafer, G.A., 2017. Yield determination, interplay between major components and yield stability in a traditional and a contemporary wheat across a wide range of environments. *Field Crops Research* 203: 114-127.

Ochagavía, H., Prieto, P., **Savin, R.**, Griffiths, S, Slafer G.A., 2017. Duration of developmental phases, and dynamics of leaf appearance and tillering, as affected by source and doses of photoperiod insensitivity alleles in wheat under field conditions. *Field Crops Research* 214: 45-55.

Capítols de llibres

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Slafer, G.A., Sadras, V.O. & **Savin, R.** (2010). Retroalimentación entre componentes del rendimiento en trigo. In: *Avances en ecofisiología de cultivos de granos*. Editors: Miralles, D.J.; Aguirrezábal L.N., Otegui, M.E., Kruk, B.C. & Izquierdo N. Editorial Facultad de Agronomía, UBA, Buenos Aires, Argentina, pp. 277-285, ISBN: 978-950-29-1215-8.

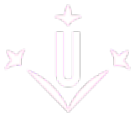
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Savin, R., Slafer, G:A., Cossani, M.C., Abeledo, L.G., Sadras, V.O. (2015). Cereal yield in Mediterranean-type environments: challenging the paradigms on terminal drought, the adaptability of barley vs wheat and the role of nitrogen fertilization. In: Victor O. Sadras and Daniel Calderini, editors: Crop Physiology, applications for genetic improvement and agronomy, Oxford: Academic Press, p. 141-158. ISBN:978-0-12-417104-6

Slafer; G.A., Kantolic, A.C., Appendino, M.L., Miralles, D.J., Tranquilli, G., **Savin, R.** (2015). Genetic and environmental effects on crop development determining adaptation and yield. In: Victor O. Sadras and Daniel Calderini, editors: Crop Physiology, applications for genetic improvement and agronomy, Oxford: Academic Press, p. 285-319. ISBN:978-0-12-417104-6.

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Crop Science and Technology. In Encyclopedia of Sustainability Science and Technology, 2011. Section Editors Paul Christou, **R. Savin**. Editorial Springer (in press).

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Barley Science. Recent advances from molecular biology to agronomy of yield and quality, 2002. Editors: G.A. Slafer, J.L. Molina-Cano, **R. Savin**, J.L. Araus & I. Romagosa, Food Product Press, New York, USA, 565 p.

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