



Ignacio Romagosa

Catedràtic d'Universitat

Personal Information



Position: Catedràtic d'universitat

Area of expertise: Genètica

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University degrees

Enginyer Agrònom, Universitat Politècnica de Madrid, 1978
Master en Agronomia, Colorado State University, 1980
Doctorat en Agronomia, Colorado State University, 1982

Previous activities

1988 - Catedràtic de Universitat, Universitat de Lleida
2010, Director Institut Agronòmic Mediterráneo
2010, Professor visitant, UdL

Research

Genètica i millora vegetal.

Teaching



· APLICACIONS BIOTECNOLÒGIQUES PER A LA MILLORA DE LA PRODUCTIVITAT DELS CULTIUS	Grau en Biotecnologia
· BIOTECNOLOGIA I MILLORA VEGETAL I ANIMAL	Màster en Enginyeria Agronòmica
· INTRODUCCIÓ A LA GENÈTICA I MILLORA VEGETAL	Màster Universitari en Millora Genètica Vegetal
· DISSENY I ANÀLISI D'EXPERIMENTS EN MILLORA VEGETAL	Màster Universitari en Millora Genètica Vegetal
· GENÈTICA DE POBLACIONS I GENÈTICA QUANTITATIVA	Màster Universitari en Millora Genètica Vegetal
· MARCADORS MOLECULARS I MAPEIG DE QTL	Màster Universitari en Millora Genètica Vegetal
· DESENVOLUPAMENT I UTILITZACIÓ DE VARIETATS	Màster Universitari en Millora Genètica Vegetal
· ALTRES TECNOLOGIES APLICADES EN MILLORA	Màster Universitari en Millora Genètica Vegetal
· MILLORA DE CARACTERS ESPECÍFICS	Màster Universitari en Millora Genètica Vegetal
· REVISIÓ DE PROGRAMES DE MILLORA APLICATS	Màster Universitari en Millora Genètica Vegetal
· DISSENY D'UN PROGRAMA DE MILLORA	Màster Universitari en Millora Genètica Vegetal
· DESIGN AND ANALYSIS OF EXPERIMENTS	Màster Universitari Erasmus Mundus MEDFOF
· DISSENY D'EXPERIMENTS I ANÀLISIS DE DADES	Màster Universitari en Protecció Integrada de C

Recent Publications

Borràs-Gelonch G., Denti M., Thomas W.T.B., Romagosa I. 2011. Genetic control of pre-heading phases in the Steptoe x Morex barley population under different conditions of photoperiod and temperature. *Euphytica* DOI: 10.1007/s10681-011-0526-7.

Borràs-Gelonch G., Rebetzke G., Richards R., Romagosa I. 2011. Genetic control of duration of pre-anthesis phases in wheat (*Triticum aestivum* L.) and relationships to leaf appearance, tillering and dry matter accumulation. *Journal of Experimental Botany* DOI:10.1093/jxb/err230v.

Alsop B.P., Farre A., Wenzl P., Wang J.M., Zhou M.X., Romagosa I., Kilian A., Steffenson B.J. 2011. Development of wild barley-derived DArT markers and their integration into a barley consensus map. *Molecular Breeding* 27 : 77 - 92

Cistue L., Cuesta-Marcos A., Chao S., Echavarri B., Chutimanitsakun Y., Corey A.; Filichkina T.; Garcia-Marino N. Romagosa I. Hayes P.M. 2011 Comparative mapping of the Oregon Wolfe Barley using doubled haploid lines derived from female and male gametes. *Theoretical and Applied Genetics* 122: 1399-1410

Comadran J., Russell J.R., Booth A., Pswarayi A., Ceccarelli S., Grando S., Stanca A.M., Pecchioni N., Akar T., Al-Yassin A., Benbelkacem A., Ouabbou H., Bort J., van Eeuwijk F.A., Thomas W.T.B., Romagosa I. 2011. Mixed model association scans of multi-environmental trial data reveal major loci controlling yield and yield related traits in *Hordeum vulgare* in Mediterranean environments. *Theoretical and Applied Genetics* 122: 1363 - 1373

Farre A., Benito I.L., Cistue L., de Jong J.H., Romagosa I., Jansen J. 2011. Linkage map construction involving a reciprocal translocation. *Theoretical and Applied Genetics* 122: 1029-1037

Francia E., Tondelli A., Rizza F., Badeck F.W., Nicosia O.L.D., Akar T., Grando S., Al-Yassin A., Benbelkacem A., Thomas W.T.B., van Eeuwijk F., Romagosa I., Stanca A.M., Pecchioni N. 2011. Determinants of barley grain yield in a wide range of Mediterranean environments. *Field Crops Research* 120:169-178



Borras-Gelonch G., Slafer G.A., Casas A.M., van Eeuwijk F., Romagosa I. 2010 Genetic control of pre-heading phases and other traits related to development in a double-haploid barley (*Hordeum vulgare* L.) population. *Field Crops Research* 119:36-47

Cistué, L., Romagosa, I., Batlle, F., Echávarri, B. 2009. Improvements in the production of doubled haploids in durum wheat (*Triticum turgidum* L.) through isolated microspore culture. *Plant Cell Reports* 28:727-735

Comadran, J., Thomas, W.T.B., van Eeuwijk, F.A., Ceccarelli, S., Grando, S., Stanca, A.M., Pecchioni, N., Akar, T., Al-Yassin, A., Benbelkacem, A., Ouabbou, H., Bort, J., Romagosa, I., Hackett, C.A., Russell, J.R. 2009. Patterns of genetic diversity and linkage disequilibrium in a highly structured *Hordeum vulgare* association mapping population for the Mediterranean basin. *Theoretical and Applied Genetics* 119:175-187.

Borràs, G., Romagosa, I., van Eeuwijk, F., Slafer, G.A. 2009. Genetic variability in duration of pre-heading phases and relationships with leaf appearance and tillering dynamics in a barley population. *Field Crops Research* 113:95-104

Bassie L, Zhu C, Romagosa I, Christou P, Capell T. 2008. Transgenic wheat plants expressing an oat arginine decarboxylase cDNA exhibit increases in polyamine content in vegetative tissue and seeds. *Molecular Breeding* 22:39-50

Comadran J, Russell JR, van Eeuwijk FA, Ceccarelli S, Grando S, Baum M, Stanca AM, Pecchioni N, Mastrangelol AMI Akar T, Al-Yassin A, Benbelkacem A, Choumane W, Ouabbou H, Dahan R, Bort J, Araus JL, Pswarayi A, Romagosa I, Hackett CA, Thomas WTB. 2008. Mapping adaptation of barley to droughted environments. *Euphytica* 161(1-2):35-45

Pswarayi A, Eeuwijk FA, Ceccarelli S, Grando S, Comadran J, Russell JR, Pecchioni N, Tondelli A, Akar T, Al-Yassin A, Benbelkacem A, Ouabbou H, Thomas WTB, Romagosa I. 2008. Changes in allele frequencies in landraces, old and modern barley cultivars of marker loci close to QTL for grain yield under high and low input conditions. *Euphytica* 163(3):435-447

Pswarayi, A., van Eeuwijk, F.A., Ceccarelli, S., Grando, S., Comadran, J., Russell, J.R., Francia, E., Pecchioni, N., Li Destri, O., Akar, T., Al-Yassin, A., Benbelkacem, A., Choumane, W., Karrou, M., Ouabbou, H., Bort, J., Araus, J. L., Molina-Cano, J.L., Thomas, W.T.B., Romagosa, I. 2008. Barley adaptation and improvement in the Mediterranean basin. *Plant Breeding* 163:435-447

Chen XW, Cistué L, Muñoz-Amatriain M, Sanz M, Romagosa I, Castillo AM, Valles MP. 2007. Genetic markers for doubled haploid response in barley. *Euphytica* 158(3):287-294

Tondelli A, Barabaschi D, Stanca AM, van Eeuwijk FA, Grando S, Mastrangelo A, Li Destri O, Akar T, Al-Yassin A, Benbelkavem A, Romagosa I, Thomas WTB, Pecchioni N, Francia E. 2005. Genomic Tools for the Study of the Adaptation of Barley Crop to Climatic Constraints. *Journal of Agronomy* 3 suppl.:581-582

Cistué L, B Echávarri, F Batlle, M. Soriano, A Castillo, MP Vallés and I Romagosa. 2005. Segregation distortion for agronomic traits in barley doubled haploid lines. *Plant Breeding* 124:546-550

Chen XW, Cistué L, Muñoz M, Sanz M, Romagosa I, Castillo AM, Vallés MP. 2005. Genetic markers for doubled



haploid responsiveness in barley Revista: Euphytica

Prada D, Romagosa I, Ullrich SE and Molina-Cano JL. 2005. A centromeric region on chromosome 6(6H) affects dormancy in an induced mutant in barley. *J Exp Bot.* 56(409):47-54

Santiveri F, Royo C., Romagosa I 2004. Growth and yield responses of spring and winter triticale cultivated under Mediterranean conditions. *Eur J Agron* 20:281-292

Prada, D., Ullrich, S.E., Molina-Cano, J.L. , Cistué, L., Clancy, J.A., Romagosa, I. 2004 Genetic control of dormancy in a Triumph/Morex cross in barley. *Theoretical and Applied Genetics* 109:62-70

Moralejo M, Swanston JS, Munoz P, Prada D, Elia M, Russell JR, Ramsay L, Cistue L, Codesal P, Casas AM, Romagosa I, Powell W, Molina-Cano JL. 2004. Use of new EST markers to elucidate the genetic differences in grain protein content between European and North American two-rowed malting barleys. *Theor Appl Genet.* 110 : 116 - 25

Molina-Cano JL, Polo JP, Romagosa I, MacGregor AW. 2004. Malting Behaviour of Barleys grown in Canada and Spain as Influenced by Hordein and Enzyme Content Revista: *Journal of the Institute of Brewing*

Malosetti, M., J Voltas, I Romagosa, SE Ullrich, FA van Eeuwijk. 2004. Mixed models including environmental covariables for studying QTL by environment interaction. *Euphytica* 137:139-145

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Voltas, J.; van Eeuwijk, F.; Igartua, E.; García del Moral, L.F.; Molina-Cano, J.L.; Romagosa, I. 2002. Genotype by environment interaction and adaptation in barley breeding: Basic concepts and methods of analysis. In: Slafer, G.A., Molina-Cano, J.L., Savin, R., Araus J.L., Romagosa, I. (Eds.) *Barley Science: Recent Advances from Molecular Biology to Agronomy of Yield and Quality*. The Harworth Press Inc., New York, pp. 205-241.

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Lasa JM, Igartua E, Ciudad FJ, Codesal P, García EV, Gracia MP, Medina B, Romagosa I, Molina-Cano JL, Montoya JL. 2001. Morphological and agronomical diversity patterns in the Spanish barley core collection



R e v i s t a :

H e r e d i t a s

Castillo AM, Cistué L, Romagosa I, Valles MP. 2001. Low responsiveness of six-rowed genotypes to androgenesis in barley does not have a pleiotropic basis Revista: Genome

Araus JL, Slafer GA, Romagosa I, Molist M. 2001. Estimated wheat yields during the emergence of agriculture based on the carbon isotope discrimination of grains: Evidence from a 10th millenium BP site on the Euphrates Revista: Journal of Archaeological Science

Romagosa I, Prada D, Moralejo MA, Sopena A, Munoz P, Casas AM, Swanston JS, Molina-Cano JL. 2001. Dormancy, ABA content and sensitivity of a barley mutant to ABA application during seed development and after ripening Revista: Journal of Experimental Botany

Castillo AM, Cistué L, Valles MP, Sanz JM, Romagosa I, Molina-Cano JL. 2001. Efficient production of androgenic doubled-haploid mutants in barley by the application of sodium azide to anther and microspore culture Revista: Plant Cell Reports

Molina JL, Polo P, Sopena A, Voltas J, Pérez-Vendrell AM, Romagosa I. 2000. Mechanisms of malt extract development in barleys from different European regions: II. Effect of barley hordein fractions on malt extract yield Revista: Journal of the Institute of Brewing

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