

CURRICULUM VITAE

Dubcovsky Jorge

Date: May 2013

Born in Buenos Aires, Argentina, January 18, 1957

Citizenship: US citizen.

Status: married to Laura Kuperman. Two children.

EDUCATION

- Elementary teacher. Tertiary School Mariano Acosta, Bs. As. Argentina 1977.
- BS in Biological Sciences. University of Buenos Aires. 1984.
- PhD in Biological Sciences. University of Buenos Aires. 1989.
- Postdoctoral training. Molecular Biology Institute. INTA. 1991.
- Postdoctoral training. Dept. Agronomy and Range Sciences, Univ. Calif. Davis. 1992-1994.

Languages

- Spanish and English.

EMPLOYMENT

- Elementary school teacher 1977-1984
- National Research Council from Argentina (CONICET) fellowships. 1985-1991.
- Visiting Scientist, Dept. of Agronomy and Range Science. UC Davis. 1992-1993
- Postgraduate Researcher, Dept. of Agronomy and Range Science. UC Davis. 1994.
- Assistant Professor, Dept. of Agronomy and Range Science. UC Davis. 1996-1999.
- Associate Professor, Dept. of Agronomy and Range Science. UC Davis. 1999-2002.
- Full Professor, Dept. of Plant Sciences. UC Davis. 2003-continue.
- HHMI-GBMF Investigator. 2011-2016

Actual position

- Professor Step VII, Dept. of Plant Sciences. UC Davis
- HHMI-GBMF Investigator
- Leader of the UC Davis Wheat Breeding Program and Wheat Molecular Genetics Laboratory.
- International Curator of the Catalogue of Gene Symbols for Wheat

Editorial work

- Editor Crop Science Section C7 2003-2006
- Associate editor Theoretical and Applied Genetics. 2006-continue
- Board of Functional and Integrative Genomics. 2008-continue

AWARDS

1996. Argentine Natl. Acad. of Agr. & Vet. Award: "Best research in bread-making quality".

2001. National Association of Wheat Growers. Award: "Excellence in Research"

2007. USDA-NRI "Discovery Award" best research program 2007.

2009. American Society of Plant Biology "Hoagland Award" for outstanding plant research in support of agriculture.

2011. Howard Hughes Medical Institute Investigator (2011-2016)

2011 U.S. Department of Agriculture (USDA) Secretary's Honor Award

2013 Konex Award. Best scientists in Genetics and Genomics 2003-2013.

2013 Member of the National Academy of Science

SOCIETIES

Fellow American Association for the Advancement of Science

Society of Experimental Botany

American Society of Agronomy

Crop Science Society of America.

American Society of Plant Biology

TEACHING

1982-1985 Teaching assistant in Biometry. Sciences Faculty, University of Buenos Aires.

1984 Teaching assistant in Systematic. Sciences Faculty, University of Buenos Aires.

1991 Professor for the Genetics Laboratory, University of Buenos Aires.

1995 Coordinator course "Biotechnology Seminars", University of Buenos Aires.

1996 Invited Professor for the postgraduate course "Cereal genetics". Univ. of Buenos Aires.

2001 Invited Professor Int. Cell Research Organization (ICRO): "Biotechnological tools for Plant Improvement". Univ. Nac. Sur, Argentina.

1997-2004 Professor for "Plant genetics and biotechnology laboratory" (PLB161A, UC Davis)

1998-2013 Professor for "Experimental design and analysis" (PLS205, UC Davis).

2005-2011 Professor for "Applied Bioinformatics" (BIT150, UC Davis).

Graduate students

MS students from Argentina (2)

1990-1991 Co-director, MS, Silvina Marta Lewis (Argentina). Now Scientist INTA

1999-2004 Co-director, MS, Laura Appendino (Argentina). Now Professor Univ. of Bs.As.

PhD students from Argentina (8)

2000-2006 Director, PhD, Gabriela Tranquilli (UCD-Argentina). Researcher INTA.

2001-2005 Co-Director, PhD, Sofia Olmos (UCD-Argentina). Researcher INTA.

2005-2010 Director, Ph D, Malena Faricelli (UCD). Breeder Pioneer.

2007-2011 Director, Ph D, Marcos Bonafede (UCD-Argentina). Researcher INTA.

2010-continue Alejandra Alvarez. Director (Universidad de San Martín).

2011-continue Nestor Kippes. Director (Fac. Agronomía-Univ. Buenos Aires)

2011-continue Facundo Tabbita. Co-Director (Fac. Agronomía-Univ. Buenos Aires)

2012-continue Guillermo Donaire. Director (Fac. de Ciencias Agrarias, Univ. Nacional de Rosario,

Postdocs from Argentina

1997-1999 Diego Lijavetzky. Researcher CONICET.

2000-2000 Laura Bulrich. Director institute of floriculture, INTA

2000-2001 Jorge Giéco Brazil. Researcher INTA

2001-2202 Marcelo Helguera. Director Cereal Breeding Program at INTA

2000-2002 Viviana Echenique. Researcher CONICET. Professor. Univ. Nacional del Sur.
2001-2002 Alicia Carrera. Adjunct Professor. Univ. Nacional del Sur.
2008-2012 Leo Banzetti, INTA-CONICET Researcher.

PhD students from Chile

2002-2006 Major Professor, Ph D, Cristobal Uauy (UCD). Project Leader John. Innes UK

- Allen G. Marr Prize for best UC Davis dissertation for 2006.
- Gerald O. Motte Scholarship from the Crop Science Society of America
- Distinguished Dissertation Award 2006-2007 in Biological & Life Sciences. Council of Graduate Schools

2004-2009 Major Professor, Ph D, Juan Brevis (UCD). Now Breeder private company

2011-2016 Major Professor, Ph D, Nicolas Cobo (UCD). *In progress*.

Other PhD students

2006-2011 Major Professor, Ph D, Iago Lowe (UCD). Now Professor U. of New England

2009-2013 Major Professor, Ph D, Rebecca Nichter (UCD). *In progress*.

2011-2016 Major Professor, Ph D, Brittany Hazard (UCD). *In progress*.

2011-2016 Major Professor, Ph D, Josh Hegarty (UCD). *In progress*.

2011-2016 Major Professor, Ph D, Tyson Howell (UCD). *In progress*.

Other MS students (all completed)

1997-1999 Major Professor, MS, Martha Jimenez (UCD). Now Teacher

1999- 2002 Major Professor, MS, Chialing Chan (UCD).

1999-2001 Major Professor, MS, Boryana Stamova (UCD). Now Researcher USDA

2002-2005 Major Professor, MS, Andrea Miller (UCD). Now researcher Monsanto

2008-2010 Major Professor, MS. Kati Wu (UCD). Now associate scientist at Amyris Biotech.

PATENTS

1. 2001 Qualset C., H. Vogt, J. Heaton, L. Jackson, D. Gillchrist, and, **J. Dubcovsky**. HRS wheat variety Kern. Accepted 8/2/01. PVP No. 2000-00047.
2. 2003 **Dubcovsky, J.**, Liuling Yan, and Artem Loukoianov. Genes responsible for vernalization regulation temperate grasses and uses thereof. Accepted 10/28/04 No. WO/2004/091287
3. 2004 **Dubcovsky, J.**, O. Chicaiza, L. Jackson. HWS wheat variety Clear White. Accepted 11/24/04. PVP No. 2004-00244.
4. 2005 **Dubcovsky, J.**, O. Chicaiza, L. Jackson. Durum variety Desert King. Accepted 7/26/06. PVP No. 2005-00187.
5. 2005 **Dubcovsky, J.**, T. Fahima, C. Uauy, A. Distelfeld. Gene responsible for grain protein content in grasses and uses thereof. UC Case 2005-619. National Phase.
6. 2006 **Dubcovsky, J.**, O. Chicaiza, L. Jackson. PVP for HWS wheat variety "Patwin". PVP No. 200600297.
7. 2008 **Dubcovsky, J.**, O. Chicaiza, L. Jackson. PVP for HRS wheat variety "Lassik". PVP No. 200800176.

8. 2009 **Dubcovsky, J.**, T. Fahima, C. Uauy, A. Distelfeld, A. Blechl. A novel kinase-START gene conferring resistance to plant disease and transgenic plants comprising it. International Patent application. PCT/IL2010/000147 (02/21/2010)
9. 2011 **Dubcovsky, J.**, O. Chicaiza, X. Zhang. Durum variety Desert King-High Protein. PVP No. 20100585.
10. 2011 **Dubcovsky, J.**, O. Chicaiza. Durum variety “Tipai”. PVP application submitted. UC Case No. 2012-190-1
11. 2012. **Dubcovsky, J.**, O. Chicaiza, X. Zhang. PVP for HWS wheat variety “Patwin-515”. PVP pending. UC Case No. 2013-036-1

PEER REVIEWED PUBLICATIONS

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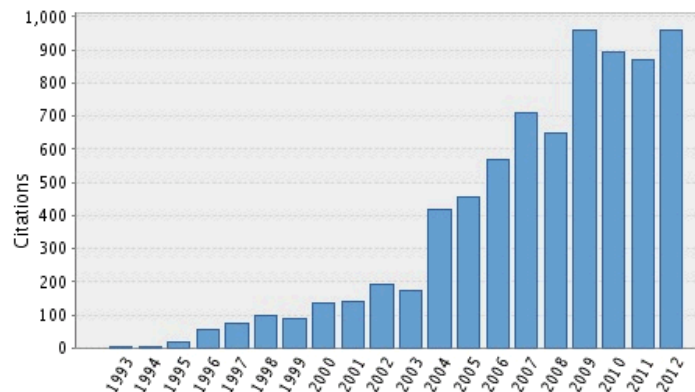
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Publications in list: 275

Sum of times cited: 12,020

h-index: 61 i10-index=144

In progress

Saintenac, C., W. Zhang, A. Salcedo, M. Rouse, H. Trick, E. Akhunov, and J. Dubcovsky. 2013 Map-based cloning of wheat stem rust resistance gene Sr35. *Science*. Submitted

Stephen P., L.S. Vanzetti, **J. Dubcovsky**. 2013. FT-mediated up-regulation of GA-biosynthetic genes and apical development in wheat. *Plant Phys*. *Additional experiments requested. Experiments in progress.*

Krasileva, K.V., V. Buffalo, P. Bailey, S. Pearce, M. Soria, F. Tabbita, C. Uauy, Interantional Wheat Genome Sequencing, and **J. Dubcovsky***. Diploid and tetraploid wheat provide insights into transcriptome assembly of recently formed polyploid species. 2013 *Genome Biology*. Submitted

2013

- *189. Cantu, D., V. Segovia D. MacLean, R. Bayles, X. Chen, S. Kamoun, **J. Dubcovsky**, D. G.O. Saunders, C. Uauy C. 2013. Genome analyses of the wheat yellow (stripe) rust pathogen *Puccinia striiformis* f. sp. *tritici* reveal polymorphic and haustorial expressed secreted proteins as candidate effectors. *BMC Genomics*. *In press*
- *188. Cavanagha C., S. Chao, S. Wang, B.E. Huangd, S. Stephen, S. Kianic, K. Forreste, C. Sainenac, G. Brown-Guedira, A. Akhunova, D. See, G. Bai, M. Pumphrey, L. Tomar, D. Wong, S. Kong, M. Reynolds, M. Lopez da Silva, H. Bockelman, L.E. Talbert, J.A. Anderson, S. Dreisigacker, P.S. Baenziger, A.H. Carter, V. Korzun, P.L. Morrell, **J. Dubcovsky**, M. Morell, M. Sorrells, M. Hayden, and E. Akhunov. 2013. Genome-wide comparative diversity uncovers multiple targets of selection for improvement in hexaploid wheat landraces and cultivars..*Proc. Natl. Acad. Sci. U.S.A.* *In press*
- *177. Williamson, V.M., T. Varghese, F. Howard and **J. Dubcovsky**. 2013. A translocation from *Aegilops ventricosa* transferred to common wheat carries a resistance gene against root-knot nematodes. *Crop Sci.* *In press*
- *176. Stephen, P., J. Zhu, Á. Boldizsár, A. Vágújfalvi, A. Burke, K. Garland-Campbell, G. Galiba, and J. Dubcovsky. 2013. Large deletions in the CBF gene cluster at the *Fr-B2* locus are associated with reduced frost tolerance in wheat. *Theor. Appl. Genet.* *In press*
- *175. Nitcher R., A. Distelfeld, C.T. Tan, L. Yan, **J. Dubcovsky**. 2013. Increased copy number at the FT-H1 locus is associated with accelerated flowering time in barley. *General Genomics and Genetics*. *In press*. DOI: 10.1007/s00438-013-0746-8
- *174. Cantu, D., B. Yang, R. Ruan, K. Li, V. Menzo, D. Fu, M. Chern, P.C. Ronald, and **J. Dubcovsky**. 2013. Comparative analysis of the defense response interactomes of rice and wheat. *BMC Genomics*. 14:166. DOI: 10.1186/1471-2164-14-166

2012

- *173. Akhunov, E., S. Chao, C. Sainenac, S. Kiani, D. See, G. Brown-Guedira, M. Sorrells, A. Akhunova, **J. Dubcovsky**, C. Cavanagh, and M. Hayden. 2012. High-throughput approaches to genome-wide analysis of genetic variation in polyploid wheat. *Can. J. Plant Sci.* 92:596-596.
- *172. Chen, A., and **J. Dubcovsky**. 2012. The wheat gene *VERNALIZATION1* is required for the down-regulation of the *VRN2* flowering repressor in the leaves and for timely flowering in spring. *PLoS Genetics*. 8:e1003134. doi: 10.1371/journal.pgen.1003134.
- *171. Qin, X., W. Zhang, **J. Dubcovsky**, and L. Tian. 2012. Cloning and comparative analysis of carotenoid β -hydroxylase genes provides new insights into carotenoid metabolism in tetraploid (*Triticum turgidum* ssp. *durum*) and hexaploid (*Triticum aestivum* L.) wheat grains. *Plant Molecular Biology*. 80: 631-646.
- *170. Hale I., X. Zhang, D. Fu, and **J. Dubcovsky**. 2012. Registration of wheat lines carrying the partial stripe rust resistance gene *Yr36* without the *Gpc-B1* high grain protein content allele. *Journal of Plant Registrations* 7:108-112

- *169. Hazard B., X. Zhang, P. Colasuonno, C. Uauy, D.M. Beckles, and **J. Dubcovsky**. 2012. Induced mutations in the *Starch Branching Enzyme II (SBEII)* genes increase amylose and resistant starch content in pasta wheat [Crop Sci](#). 52:1754-1766.
- *168. Distelfeld, A, S. P. Pearce, R. Avni, B. Scherer, C. Uauy, F. Piston, A. Slade, R. Zhao, **J. Dubcovsky**. Divergent functions of orthologous NAC transcription factors in wheat and rice. 2012. [Plant Molecular Biology](#). 78:515–524.

2011

- *167. Cantu, D., M. Govindarajulu, A. Kozik, M. Wang, X. Chen, K. Kojima, J. Jurka, R.W. Michelmore, and **J. Dubcovsky**. 2011. Next generation sequencing provides rapid access to the genome of *Puccinia striiformis* f. sp. *tritici*, the causal agent of wheat stripe rust. Plos One. [PLoS ONE 6\(8\): e24230. doi:10.1371/journal.pone.0024230](#)
- *166. Cantu D., S.P. Pearce, A. Distelfeld1, M. Wagner Christiansen, C. Uauy, E. Akhunov, T. Fahima, and **J. Dubcovsky**. 2011. Effect of the down-regulation of the high Grain Protein Content (GPC) genes on the wheat transcriptome during monocarpic senescence. [BMC Genomics](#) 12:492.
- *165. Li, C., A. Distelfeld, A. Comis, and **J. Dubcovsky**. 2011. Wheat flowering repressor VRN2 and promoter CO2 compete for interactions with NUCLEAR FACTOR-Y complexes. [Plant Journal](#) 67:763-773.
- *164. Tsai, H., T. Howell1, R. Nitcher, V. Missirian, B. Watson, K. Ngo, M. Lieberman, J. Fass, C. Uauy, R.K. Tran, A.A. Khan, V. Filkov, T.H. Tai, **J. Dubcovsky**, and L. Comai. 2011. Discovery of rare mutations in populations: TILLING by sequencing. [Plant Physiology](#). 156: 1257-1268.
- *163. Lowe, I., D. L. Jankuloski, S. Chao, X. Chen, D. See and **J. Dubcovsky**. 2011. Mapping and validation of QTL which confer partial resistance to broadly virulent post-2000 North American races of stripe rust in hexaploid wheat. [Theor Appl Genet](#). 123:143–157.
- *162. Simons, C., Z. Abate, S. Chao, W. Zhang, M. Rouse, Y. Jin, E. Elias, and **J. Dubcovsky**. 2011. Genetic mapping of stem rust resistance gene *Sr13* in tetraploid wheat (*Triticum turgidum* ssp. *durum* L.). [Theoretical and Applied Genetics](#) 122:649–658
- *161. Lowe, I., D. Cantu, and **J. Dubcovsky**. 2011. Durable resistance to the wheat rusts: integrating systems biology and traditional phenotype-based research methods to guide the deployment of resistance genes. [Euphytica](#) 179:69-79.

2010

- *160. Chao, S., **J. Dubcovsky**, J. Dvorak, M.C. Luo, P.S. Baenziger, R. Matnyazov, D.R. Clark, L.E. Talbert, J.A. Anderson, S. Dreisigacker, K. Glover, J. Chen, K. Campbell, P.L. Bruckner, J.C. Rudd, S. Haley, B.F. Carver, S. Perry, M.E. Sorrells, and E. Akhunov. 2010. Population- and genome-specific patterns of linkage disequilibrium and SNP variation in spring and winter wheat (*Triticum aestivum* L.). [BMC Genomics](#) 11:727.

- *159. Akhunov E.D., A.R. Akhunova, O.D. Anderson, J.A. Anderson, N. Blake, M.T. Clegg, D. Coleman-Derr, E.E. Conley, C.C. Crossman, K.R. Deal, **J. Dubcovsky**, B.S. Gill, Y.Q. Gu, J. Hadam, H. Heo, N. Huo, G.R. Lazo, M.C. Luo, Y.Q. Ma, D.E. Matthews, P.E. McGuire, P.L. Morrell, C.O. Qualset, J. Renfro, D. Tabanao, L.E. Talbert, C. Tian, D.M. Toleno, M. Warburton, F.M. You, W. Zhang, and J. Dvorak. 2010 Nucleotide diversity maps reveal variation in diversity among wheat genomes and chromosomes. *BMC Genomics*. 11:702.
- *158. Cantu, D., L.S. Vanzetti, A. Sumner, M. Dubcovsky, M. Matvienko, A. Distelfeld, R. Michelmore, **J. Dubcovsky**. 2010. Small RNAs, DNA methylation and transposable elements in wheat. *BMC Genomics*. 11: 408 <http://www.biomedcentral.com/1471-2164/11/408>
- *157. Dhillon, T., S.P. Pearce, E.J. Stockinger, A. Distelfeld, C. Li, A.K. Knox, I. Vashegyi, A. Vágújfalvi, G. Galiba, and **J. Dubcovsky**. 2010. Freezing tolerance and flowering regulation in cereals: the VRN-1 connection. *Plant Physiology* 153: 1846-1858.
- *156. Zhang, W., E. Olson, C. Sainenac, M. Rouse, Z. Abate, Y. Jin, E.D. Akhunov, M. Pumphrey, and J. Dubcovsky. 2010. Genetic maps of stem rust resistance gene *Sr35* in diploid and hexaploid wheat. *Crop Science*. 50: 2464-2474.
- *155. Brevis, J.C., C. F. Morris, F. Manthey, and **J. Dubcovsky**. 2010. Effect of the grain protein content locus *Gpc-B1* on bread and pasta quality. *Journal of Cereal Science* 51: 357-365.
154. Yu, L.-X., S. Liu, J.A. Anderson, R.P. Singh, Y. Jin, **J. Dubcovsky**, G. Brown-Guidera, S. Bhavani, A. Morgounov, Z. He, J. Huerta-Espino, and M.E. Sorrells. 2010. Haplotype diversity of stem rust resistance loci in uncharacterized wheat lines. *Molecular Breeding* 26:667-680.
- * 153. Olson, E.L., G. Brown-Guedira, D.S. Marshall, Y. Jin, M. Mergoum, I. Lowe, and **J. Dubcovsky**. 2010. Genotyping of U.S. wheat germplasm for presence of stem rust resistance genes *Sr24*, *Sr36* and *Sr1RSAmigo*. *Crop Science* 50:668–675.
- * 152. Brevis, J.C., and **J. Dubcovsky**. 2010. Effects of the chromosome region including the grain protein content locus *Gpc-B1* on wheat grain and protein yield. *Crop Science* 50:59-66.
- *151. Distelfeld A., and **J. Dubcovsky**. 2010. Characterization of the *maintained vegetative phase (mvp)* deletions from einkorn wheat and their effect on *VRN2* and *FT* transcript levels. *Molecular Genetics and Genomics* 283: 223-232.
- * 150. Piston-Piston F., C. Uauy, L. Fu, J. Langston, J. Labavitch, and **J. Dubcovsky**. 2010. Down-regulation of four putative arabinoxylan feruloyl transferase genes from family PF02458 reduces ester-linked ferulic acid content in rice cell walls. *Planta* 231: 677-691
- * 149. Faricelli M.E., M. Valarik, and **J. Dubcovsky**. 2010. Control of flowering time and spike development in cereals: the earliness *per se* *Eps-A^{m1}* region in wheat, rice, and *Brachypodium*. *Functional and Integrative Genomics*. 10:293–306
- * 148 Yoshida T., H. Nishida, J. Zhu, R. Nitcher, A. Distelfeld, Y. Akashi, K. Kato, **J. Dubcovsky**. 2010. *Vrn-D4* is a vernalization gene located on the centromeric region of chromosome 5D in hexaploid wheat. *Theor Appl Genet*. 120: 543-552.

2009

147. Luo MC, Deal KR, Akhunov ED, Akhunova AR, Anderson OD, Anderson JA, Blake N, Clegg MT, Coleman-Derr D, Conley EE, Crossman CC, **Dubcovsky J**, Gill BS, Gu YQ, Hadam J, Heo H, Huo N, Lazo G, Lundy KE, Ma Y, Matthews DE, McGuire PE, Morrell PL, Nicolet CM, Qualset CO, Renfro J, Tabanao D, Talbert LE, Tian C, Toleno DM, Warburton ML, You FM, Zhang W, Dvorak J. 2009. Grass genome comparisons reveal the dominant mechanism of chromosome number reduction and accelerated genome evolution in the large *Triticeae* genomes. *Proc Natl Acad Sci USA*. 37:15780-15785.
146. Waters B.M., C. Uauy, **J. Dubcovsky**, and M.A. Grusak. 2009. Wheat (*Triticum aestivum*) NAM proteins regulate the translocation of iron, zinc, and nitrogen compounds from vegetative tissues to grain. *Journal of Experimental Botany*. 60: 4263-4274.
- * 145. Uauy C., F. Paraiso, P. Colasuonno, R. K. Tran, H. Tsai, S. Berardi, L. Comai, **J. Dubcovsky**. 2009. A modified TILLING approach to detect induced mutations in tetraploid and hexaploid wheat *BMC Plant Biology*. 9:115-128.
144. Bainotti, C., J. Frascina, J. H. Salines, J. E. Nisi, **J. Dubcovsky**, S. M. Lewis, L. Bullrich, L. Vanzetti, M. Cuniberti, P. Campos, M. B. Formica, B. Masiero, E. Alberione and M. Helguera. 2009. Registration of 'BIOINTA 2004' wheat. *Journal of Plant Registration*. 3:165-169.
143. Garbus, I., A.D. Carrera, **J. Dubcovsky**, and V. Echenique. 2009. Physical mapping of durum wheat lipoxygenase genes. *Journal of Cereal Science* 50:67-73.
- * 142. Fu, D., C. Uauy, A. Distelfeld, A. Blechl, L. Epstein, X. Chen, H. Sela, T. Fahima, and **J. Dubcovsky**. 2009. A kinase-START gene confers temperature-dependent resistance to wheat stripe rust. *Science*. 323:1357-1360.
- *141. Distelfeld A., C. Li, and **J. Dubcovsky**. 2009. Regulation of flowering in temperate cereals. *Current Opinion in Plant Biology* 12:178-184.
- *140. Pidal B., L. Yan, D. Fu, F. Zhang, G. Tranquilli, **J. Dubcovsky**. 2009. The *CArG*-box in the promoter region of wheat vernalization gene *VRN1* is not necessary to mediate the vernalization response, *J. Hered.* 100: 355-364.
- *139. Distelfeld A., G. Tranquilli, C. Li, L. Yan, **J. Dubcovsky**. 2009. Genetic and molecular characterization of the *VRN2* loci in tetraploid wheat. *Plant Physiology* 149:245-257.
- *138. Galiba G., A. Vágújfalvi, C. Li, A. Soltész, **J. Dubcovsky**. 2009. Regulatory genes involved in the determination of frost tolerance in temperate cereals. *Plant Science*. 176:12-19.
- *137. Chao S., W. Zhang, E. Akhunov, J. Sherman, Y. Ma, M. Luo, and **J. Dubcovsky**. 2009. Analysis of gene-derived SNP marker polymorphism in wheat (*Triticum aestivum* L.). *Molecular Breeding*. 23:23-33.

2008

- *136. Zhang, W., S. Chao, F. Manthey, O. Chicaiza, J.C. Brevis, V. Echenique, **J. Dubcovsky**. 2008. QTL analysis of pasta quality using a composite microsatellite - SNP map of durum wheat. *Theor. Appl. Genet.* 117:1361-1377.

- *135. Lewis S., M.E. Faricelli, M.L. Appendino, M. Valarik, and **J. Dubcovsky**. 2008. The chromosome region including the earliness *per se* locus *Eps-A^m1* affects the duration of early developmental phases and spikelet number in diploid wheat, *J. Exp. Bot.* 59: 3595-3607.
- *134. Li, C. and **J. Dubcovsky**. 2008. Wheat FT protein regulates *VRN1* transcription through interactions with FDL2. *The Plant Journal* 55:543-554.
- *133. Bonafede, M., O. Chicaiza, G. Tranquilli, and **J. Dubcovsky**. 2008. Registration of an hexaploid wheat translocation line carrying a short segment of chromosome 5A^m including softness genes *Pina* and *Pinb* from *Triticum monococcum*. *Journal of Plant Registration*. 2:165-166.
- *132. Brevis, J.C., I.A. Khan, O. Chicaiza, C.F. Morris, L. Jackson, and **J. Dubcovsky**. 2008. Agronomic and quality evaluation of common wheat near-isogenic lines carrying the leaf rust resistance gene *Lr47*. *Crop Science*. 48:1441-1451.
131. Vágújfalvi, A., A. Soltész, T. Kellós, **J. Dubcovsky**, L. Cattivelli, and G. Galiba. 2008. Frost tolerance in cereals – from a molecular point of view. *Current Topics in Plant Biology*. 8:71-80.
130. Distelfeld A., A. Korol, **J. Dubcovsky**, C. Uauy, T. Blake, and T. Fahima. 2008. Colinearity between the barley grain protein content (GPC) QTL on chromosome arm 6HS and the wheat *Gpc-B1* region. *Molecular Breeding* 22:25-38.
- *129. Zhang, W. and **J. Dubcovsky**. 2008. Association between allelic variation at the *Phytoene synthase 1* gene and yellow pigment content in the wheat grain. *Theoretical and Applied Genetics*. 116:635-645.
- * 128. Knox, A.K., C. Li, A. Vágújfalvi, G. Galiba, E.J. Stockinger, and **J. Dubcovsky**. 2008. Identification of candidate *CBF* genes for the frost tolerance locus *Fr-A^m2* in *Triticum monococcum*. *Plant Molecular Biology*. 67:257-270.
127. Zhang X.K., X. C. Xia, Y.G. Xiao, **J. Dubcovsky**, and Z. H. He. 2008. Allelic variation at the vernalization genes *Vrn-A1*, *Vrn-B1*, *Vrn-D1* and *Vrn-B3* in Chinese common wheat cultivars and their association with growth habit. *Crop Science* 48:458–470.

2007

- * 126. Fu D., C. Uauy, A. Blechl, and **J. Dubcovsky**. 2007. RNA Interference for Wheat Functional Gene Analysis. *Transgenic Research* 16: 689-701.
- *125. **Dubcovsky J**, and J Dvorak. 2007. Genome plasticity a key factor in the success of polyploid wheat under domestication. *Science* 316: 1862-1866
124. Chao S., W. Zhang, **J. Dubcovsky**, and M. Sorrells. 2007. Evaluation of genetic diversity and genome-wide linkage disequilibrium among US wheat (*Triticum aestivum* L.) germplasm representing different market classes. *Crop Science* 47:1018–1030.
- *123. Carrera A., V. Echenique, W. Zhang, M. Helguera, F. Manthey, A. Schragger, A. Picca, G. Cervigni and **J. Dubcovsky**. 2007. A deletion at the *Lpx-B1* locus is associated with low lipoxygenase activity and improved pasta color in durum wheat (*Triticum turgidum* ssp. *durum*). *Journal of Cereal Science* 45:67-77.

- *122. Fu, D., M. Dunbar, **J. Dubcovsky**. 2007. Wheat *VIN3*-like PHD finger genes are up-regulated by vernalization. *Mol. Gen. Genomics* 277: 301-313.
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Chapters in books

1. Dvorak, J. and **J. Dubcovsky**. 1995. Recombination patterns between homoeologous chromosomes in wheat. In: Classical and Molecular Cytogenetic Analysis. Proceedings of the US-Japan Symposium. Ed W. J. Raupp and B. S. Gill. Kansas State University, Manhattan, USA.
2. Dvorak, J. and **J. Dubcovsky**. 1996. Genome Analysis of Polyploid Species Employing variation in Repeated Nucleotide Sequences. In: Methods of genome analysis in plants. Ed. P. P. Jauhar. CRC Press, New York. 386 pp.
3. Nelson, C. J., **J. Dubcovsky**, S. R. McCouch, and M. E. Sorrells. 1996. Genome Mapping in temperate grain and grasses in the family *Gramineae* (Poaceae) . In Genome Mapping in Plants. Ed. R. G. Landes, Academic Press. Texas, USA.
4. Manifesto, M.M., A.R. Schlatter, H.E. Hopp, E.Y. Suarez, **J. Dubcovsky**. Microsatellites in wheat: a useful tool for identification and breeding. 2000. In: Applications of biotechnology to wheat breeding. Ed. M. M. Kohli and M. Francis. Proceedings of a conference at La estanzuela, Uruguay, November 19-20, 1998. Montevideo, Uruguay: CIMMYT, p 85-101
5. **Dubcovsky, J.**, G. Tranquilli, D. Lijavetzky, I. A. Khan, A. R. Schlatter, M.M. Manifesto, S. Marcucci-Poltri. 2000. Advances in Molecular Markers for Breadmaking quality. In: Applications of biotechnology to wheat breeding. Ed. M. M. Kohli and M. Francis. Proceedings of a conference at La estanzuela, Uruguay, November 19-20, 1998. Montevideo, Uruguay: CIMMYT, p 57-69
6. Vágújfalvi, A., C. Croasatti, G. Galiba, **J. Dubcovsky**, and L. Cattivelli. 2000. Mapping of regulatory loci controlling the accumulation of cold-regulated Cor14b mRNA in wheat. In: Developments in Plant Breeding Volume 9. Wheat in a Global

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7. **Dubcovsky, J.**, A. Loukoianov, and M. D. Bonafede. 2007. Regulation of flowering time in wheat. In *Wheat Production in Stressed Environments. Series Development in Plant Breeding*. Ed. Buck H.T., Nissi J.E., and N. Salomon. Springer. Vol. 12:659-665.

RESEARCH PROJECTS WITH ARGENTINA

- 1) Co- PI - FONCYT Grant: PICT Raíces N° 0509- Regulación del desarrollo de la espiga en trigo- en curso (desde Diciembre 2012). Duración tres años-
- 2) Co -PI - FONCYT Grant: PICT Raíces N°1744 “Genes relacionados con el período a espigazón en trigo: utilización de herramientas clásicas y moleculares para la determinación de sus efectos sobre el ciclo del cultivo y componentes de rendimiento”. 2008 -2011
- 3) Collaborator: FONCYT Grant: PID N° 36195 “Implementación de estrategias basadas en selección asistida por marcadores moleculares para el desarrollo de germoplasma de trigo”. (2008-2011)
- 4) Collaborator: FONCYT Grant: PICT N° 8-13442. Genetic characterization of flowering time in *Triticum monococcum* germplasm”. 2005-2008
- 5) Collaborator: FONCYT Grant: PID N° 8-234. Wheat Germplasm Development Using Low Cost Molecular Markers”. (2004-2007)
- 6) Collaborator. FONCYT Grant PICTO N° 12948 “Desarrollo de germoplasma de trigo con calidades industriales diferenciadas asistido por marcadores genéticos” (2004-2007)
- 7) Collaborator. FONCYT Grant PICT 08-6549. Characterization and enhancement of argentinean wheat germplasm for end use quality. 2001-2004
- 8) Initiation and writing of the project before leaving to US. Co-PI. FONCYT Grant - PID N° 253. Caracterización y diferenciación de cultivares de trigo, soja, maíz y girasol mediante técnicas moleculares” 1997-2000
- 9) Principal investigator. 1995-1996. Wheat National Program - INTA. Marker assisted quality improvement..
- 10) Principal investigator. 1996. Antorchas Foundation. "Identification and molecular characterization of Argentine wheat cultivars. Genetic diversity in old and new cultivars.
- 11) Principal investigator 1994 -1995. Evolution and origin of the genomes of South American *Triticeae* based on variation in repeated nucleotide sequences. Antorchas.

RESEARCH PROJECTS USA (Cumulative \$49.6 M August 2011)

- 1.

4. **PI** 1997-1998 Development of molecular markers for new rust resistance genes in wheat. Faculty Research Grant Program, UCD: \$10,000
5. **PI** 1997-1998. Characterization of the ITMI mapping population using microsatellite markers. ITMI: \$9,600.
6. **PI** 1997-2000. Positional cloning of *Triticum monococcum* vernalization genes. NRI-USDA: \$250,000.
7. **PI** 1998-2002. Bringing Biotechnology to the Wheat Fields. Fund for Rural America. USDA: \$220,000.
8. **coPI** 1999-2001. Meiotic recombination in plant interspecies crosses. Grant funded by the Systemwide Biotechnology Research and Education Program: \$30,000.
9. **coPI** 1999-2003. The Structure and Function of the Expressed Portion of the Wheat Genomes. NSF-9975989: \$7,300,000, JD: \$330,000.
10. **coPI** 1999-2001. Assessment of Genome Content, Colinearity and Evolution in Barley, Maize, Rice, Sorghum, and Wheat. NSF-9975793: \$2,000,000, JD: \$153,117.
11. **PI** 2000-2003. Positional cloning of wheat and barley vernalization genes NRI-USDA, Plant Genome Program: \$290,000.
12. **PI** 2001. Pyramiding rust resistance genes in wheat. Supplemental Hatch Proposal: \$9,728.
13. **PI** 2001-2002. High density mapping of genes responsible for frost tolerance in wheat. NSF: \$38,786.
14. **PI** 2001. Construction of a BAC library of tetraploid wheat. INRA: \$29,600.
15. **PI** (2 laboratories). 2001-2004. Positional cloning of a gene responsible for high protein content in tetraploid wheat. BARD: \$218,000.
16. **PI**. (12 laboratories). 2001-2005. Bringing Genomics to the Wheat Field. USDA-IFAFS: \$500,000.
17. **PI** 2003-2006. Verification of the identity and functionality of candidate DNA sequences for wheat vernalization genes *Vrn1* and *Vrn2*. NRI-USDA, Plant Genome Program: \$295,000.
18. **PI** 2003-2006. Positional cloning of *earliness per se* gene *Eps1* from *T. monococcum*. NRI-USDA, Plant Genome Program: \$320,000.
19. **coPI** 2003-2005. DEALING in the wheat genome: development and application of large-scale reverse genetic tools for crop plants. NSF: \$324,418.
20. **coPI** 2003-2005. Haplotype polymorphism in polyploid wheats and their diploid ancestors. NSF: \$244,797.
21. **PI** 1997-2004. Development of wheat varieties for California. California Wheat Commission and California Crop Improvement Association: \$940,545 (\$110,000/year)
22. **PI** (4 laboratories) 2004-2007. Validation of a candidate gene for increased grain protein content in wheat. BARD: \$125,000.
23. **coPI** 2003-2006. Identification of genetic factors conferring cold tolerance in winter wheat NRI-USDA, Plant Genome Program: \$186,900.
24. **PI** 2004-2006. International Molecular genetic analysis of lipoxygenase activity in pasta wheat. NSF-AMERICAS: \$35,322.

25. **PI** 2004-2005. Planning conference for a 2005 Coordinated Agricultural Project (CAP) on wheat translational genomics NRI-USDA, Plant Genome Program: \$12,000.
26. **coPI** 2005-2007. Mapping and cloning High Temperature Adult Plant stripe rust resistance genes in wheat NRI-USDA, Plant Genetic Mechanisms: \$150,000.
27. **PI**. 2005-2007. Regulation of the initiation of reproductive development in barley by the *VRN-H3* vernalization gene. NRI-USDA, Developmental Proc. of Crop Plants: \$234,900.
28. **PI**. 2005-2009. Wheat Applied Genomics. NRI-USDA, CAP: \$5,000,000.
29. **PI**. 2006-2009. Characterization of the gene network that regulates vernalization in wheat NRI-USDA, Genetic Mechanisms: \$360,000.
30. **PI**. 2006-2010. Molecular tools to engineer California wheat varieties resistant to stripe rust (*Puccinia striiformis*). UC-Discovery Grant with the California Wheat Commission: \$300,000.
31. **PI**. 2007-2010. Map-based cloning of high-temperature adult plant stripe rust resistance gene *Yr36* from wheat. BARD. \$113,000.
32. **PI**. 2007-2010. Regulation of the initiation of reproductive development in barley by the *VRN-H3* vernalization gene. USDA-NRI. \$275,000.
33. **coPI** 2007-2010. Chevron-UCD. Improving wheat straw for efficient biofuel production. \$345,000.
34. **PI**. 2007-2010. Dissecting the regulatory network for nitrogen and nutrient remobilization in rice. USDA-NRI. \$275,000.
35. **coPI**. 2008-2012. Developing New Sources of Durable Wheat Rust Resistance. Melinda and Bill Gates Foundation. \$325,338
36. **coPI**. 2008-2009. Training Plants Breeders for the 21st century. USDA-CSREES. \$36,000.
37. **coPI**. 2008-2010. Efficient identification of induced mutations in crop species by ultra-high throughput DNA sequencing. NSF \$142,000.
- 38: **coPI**. 2008-2012. Functional characterization of wheat *GPC-1* and *GPC-2* mutants and their effect on transcriptional regulation during senescence. BSF \$90,000.
- 39: **PI**. 2009-2012. Comparative protein networks controlling disease resistance in rice and wheat. USDA-AFRI \$447,000.
40. **PI**. 2008-2010. TILLING wheat male sterile related genes. Pioneer Hi-Bred International, \$200,000.
41. **PI**. 2008-2010. TILLING wheat yield related genes. Targeted Growth Inc. \$470,285.
42. **PI**. 2010-2014. Improving California wheat quality and nutritional value. UC Discovery. \$816,000.
43. **PI**. 2010-2013. Molecular characterization & deployment of HTAP stripe rust resistance gene *Yr36* from wheat. \$250,000 BARD
44. **PI**. 2005-2011. Developing Wheat Varieties for California. California Crop Improvement Association. \$334,354

45. **PI.** 2009-2011. Evaluation of Small Grains in California. California Crop Improvement Association. \$89,390.
46. **PI.** 2010-2011. TILLING-mediated modification of wheat starch branching enzyme II (SBEIIa and SBEIIb) in durum wheat. Univ. Saskatchewan. \$70,000.
47. **PI.** 2010-2014. Improving California wheat quality and nutritional value. CWC-UC-Discovery. \$816,000
48. **PI.** 2010-2013. Molecular characterization and deployment of the high-temperature adult plant stripe rust resistance gene *Yr36* (*WKS1*) from wheat. BARD. \$250,000
49. **PI.** 2011-2016. Improving barley and wheat germplasm for changing environments. USDA-CAP. \$25,000,000.
50. **PI.** 2011-2016. Light regulatory networks connecting phytochromes and photoperiod in wheat development. USDA-NRI. \$499,607
51. **PI.** 2011-2016. HHMI and G&BMF award for five years. Development of Genomic Tools to Dissect Regulatory Gene Networks in Wheat. \$5,000,000

Reports

1. McIntosh, R.A., K.M. Devos, **J. Dubcovsky**, and W.J. Rogers. Catalogue of gene symbols for wheat: 2000 supplement. <http://wheat.pw.usda.gov/ggpages/wgc/2000upd.html>. Wheat Information Service 91: 33-70
2. Jackson, L.F., **J. Dubcovsky**, L.W. Gallagher, R.L. Wennig, J. Heaton, H. Vogt, L.K. Gibbs, T. Kearney, D. Kirby, D. Marcum, M.C. Mathews, D. Munier, C. Mutters, S. Orloff, B. Snaden, S. Scardaci, M. Smith, R. Vargas, J. Williams, and S. Wright. 1998. Regional barley, common and durum wheat, triticale, and oat performance tests in California. Agronomy Progress Report 262.
3. Jackson, L. F., **J. Dubcovsky**, L. W. Gallagher, R. L. Wennig, J. Heaton, H. Vogt, L. K. Gibbs, T. Kearney, D. Kirby, D. Marcum, M. C. Mathews, D. Munier, C. Mutters, S. Orloff, B. Sanden, S. Scardaci, M. Smith, R. Vargas, J. Williams, and S. Wright. 1999 Regional barley, common and durum wheat, triticale, and oat performance tests in California. Agronomy Progress Report, Agricultural Experiment Station, Cooperative Extension. No. 262: 1-59.
4. Jackson, L.F., **J. Dubcovsky**, L.W. Gallagher, R.L. Wennig, J. Heaton, H. Vogt, L.K. Gibbs, D. Kirby, M. Canevari, H. Carlson, T. Kearney, B. Marsh, D. Munier, C. Mutters, S. Orloff, J. Schmierer, R. Vargas, J. Williams, and S. Wright. 2000 Regional barley and common and durum wheat performance tests in California. Agronomy Progress Report 272: 1-56.
5. **Dubcovsky J.** 2001. Plant gene cloning may lead to better timing of flowering. NRI Research Highlights. NRI-CGP USDA CSREES. No. 2.
6. McIntosh, R.A., K.M. Devos, **J. Dubcovsky**, and W.J. Rogers. 2001. Catalogue of gene symbols for wheat: 2001 supplement. Wheat Information Service 93: 40-60
7. Jackson, L.F., **J. Dubcovsky**, L.W. Gallagher, O. Chicaiza, D. Stewart, H. Vogt, L.K. Gibbs, D. Prato-Mayo, D. Kirby, M. Canevari, H. Carlson, S. Garcia, T. Kearney, D. Marcum, B. Marsh, D. Munier, C. Mutters, S. Orloff, J. Schmierer, R. Vargas, and S. Wright. 2001. 2001

- Regional barley, common and durum wheat, triticale, and oat performance tests in California. Agronomy Progress Report 276: 1-56.
8. Ramakrishna W., J. Ma, P. SanMiguel, J. Emberton, **J. Dubcovsky**, B. A. Shiloff, Z. Jiang, N. Rostoks, C. S. Busso, M. Ogden, E. Linton, A. Kleinhofs, K. M. Devos, J. Messing & J. L. Bennetzen. 2002. Frequent genic rearrangements in two regions of grass genomes identified by comparative sequence analysis. *Comparative and Functional Genomics* 3: 165-166.
 9. McIntosh, R.A., K.M. Devos, **J. Dubcovsky**, and W.J. Rogers. 2002. Catalogue of gene symbols for wheat: 2002 supplement. *Wheat Information Service* 95: 50-80.
 10. Jackson, L.F., **J. Dubcovsky**, L.W. Gallagher, O. Chicaiza, D. Stewart, H. Vogt, L.K. Gibbs, D. Prato-Mayo, D. Kirby, K. Brittan, H. Carlson, S. Garcia, B. Marsh, D. Munier, C. Mutters, S. Orloff, B. Roberts, R. Vargas, and S. Wright. 2002. 2002 Regional barley, common and durum wheat, triticale, and oat performance tests in California. *Agronomy Progress Report* 279: 1-67.
 11. McIntosh, R.A., Y. Yamazaki, K.M. Devos, J. Dubcovsky, W.J. Rogers, and R. Appels 2003. Catalogue of Gene Symbols for Wheat. *In Proceedings of the 10th International Wheat Genetics Symposium. Volume 4.*, Instituto Sperimentale per la Cerealicoltura, Rome, Paestum, Italy.
 12. Jackson, L.F., **J. Dubcovsky**, L.W. Gallagher, O. Chicaiza, D. Stewart, L.K. Gibbs, D. Prato-Mayo, D. Kirby, H. Carlson, M. Canevari, B. Marsh, H. Meister, D. Munier, S. Orloff, B. Roberts, J. Schmierer, R. Vargas, and S. Wright. 2003. 2003 Regional barley, common and durum wheat, triticale, and oat performance tests in California. *Agronomy Progress Report* 286: 1-69.
 13. Jackson, L.F., **J. Dubcovsky**, L.W. Gallagher, O. Chicaiza, D. Stewart, L.K. Gibbs, D. Prato-Mayo, D. Kirby, H. Carlson, M. Canevari, B. Marsh, H. Meister, D. Munier, S. Orloff, B. Roberts, J. Schmierer, R. Vargas, and S. Wright. 2004. 2004 Regional barley, common wheat and triticale, and durum wheat performance tests in California. *Agronomy Progress Report* 288: 1-60.
 14. McIntosh, R.A., K.M. Devos, **J. Dubcovsky**, and W.J. Rogers. 2004. Catalogue of gene symbols for wheat: 2004 supplement. <http://wheat.pw.usda.gov/ggpages/wgc/2004upd.html> .
 15. Vanzetti, L. S., J.C. Brevis, **J. Dubcovsky**, M. Helguera. 2006. Identification of microsatellites linked to *Lr47*. *Electronic Journal of Biotechnology* 3: 267-271. <http://www.ejbiotechnology.cl/content/vol9/issue3/full/23/>).
 16. McIntosh, R.A., K.M. Devos, J. Dubcovsky, W.J. Rogers, C.F. Morris, R. Appels, and O.D. Anderson. 2005. Catalogue of gene symbols for wheat: 2005 Supplement. <http://wheat.pw.usda.gov/ggpages/wgc/2005upd.html>.
 17. Jackson, L.F., **J. Dubcovsky**, L.W. Gallagher, O. Chicaiza, D. Stewart, F.T. Maciel, D. Prato-Mayo, D. Kirby, H. Carlson, M. Canevari, B. Marsh, D. Munier, S. Orloff, J. Schmierer, R. Vargas, and S. Wright. 2006 Regional barley, common wheat and triticale, and durum wheat performance tests in California. *Agronomy Progress Report* 293: 1-52.
 18. McIntosh, R.A., K.M. Devos, **J. Dubcovsky**, W.J. Rogers, C.F. Morris, R. Appels, and O.D. Anderson. 2007. Catalogue of gene symbols for wheat: 2007 Supplement. *Annual Wheat Newsletter* 53.

19. McIntosh, R.A., K.M. Devos, **J. Dubcovsky**, W.J. Rogers, C.F. Morris, R. Appels, D.J. Somers, and O.A. Anderson. 2008. Catalogue of gene symbols for wheat: 2008 Supplement. Annual Wheat Newsletter 54: 209-225.
20. Jackson, L.F., **J. Dubcovsky**, L.W. Gallagher, O. Chicaiza, D. Stewart, D. Prato-Mayo, F.T. Maciel, J. Fraser, D. Kirby, H. Carlson, M. Canevari, B. Marsh, D. Munier, S. Orloff, J. Schmierer, and S. Wright. 2007. 2007 Regional barley, common wheat and triticale, and durum wheat performance tests in California. Agronomy Progress Report 295: 1-47.
21. McIntosh, R.A., Y. Yamazaki, **J. Dubcovsky**, W.J. Rogers, C.F. Morris, D. J. Somers, R. Appels, and K. Devos. 2008. Catalogue of gene symbols for wheat: 2008. Edited by McIntosh RA; 2008. <http://wheat.pw.usda.gov/GG2/Triticum/wgc/2008/>.
22. Jackson, L.F., **J. Dubcovsky**, L.W. Gallagher, O. Chicaiza, P. Mayo, F.T. Maciel, J. Fraser, D. Prato-Mayo, D. Kirby, H. Carlson, M. Canevari, D. Marcum, B. Marsh, D. Munier, S. Orloff, J. Schmierer, and S. Wright. 2008 Regional barley, common wheat and triticale, and durum wheat performance tests in California. Agronomy Progress Report 296 (48 Tables).
23. McIntosh, R.A., **J. Dubcovsky**, W.J. Rogers, C.F. Morris, R. Appels, and X.C. Xia. 2009. Catalogue of gene symbols for wheat: 2009 Supplement. Annual Wheat Newsletter 55: 256-278
24. Mayo, P., D. Prato, J. Fraser, L.W. Gallagher, O. Chicaiza, Z. Abate, F.T. Maciel, D. Kirby, H. Carlson, M. Canevari, D. Marcum, B. Marsh, D. Munier, S. Orloff, J. Schmierer, S. Wright and **J. Dubcovsky**. 2009 Regional barley, common wheat and triticale, and durum wheat performance tests in California. Agronomy Progress Report 297 (48 Tables).
25. McIntosh, R.A., **J. Dubcovsky**, W.J. Rogers, C.F. Morris, R. Appels, and X.C. Xia. 2010. Catalogue of gene symbols for wheat: 2010 Supplement. Annual Wheat Newsletter 56: 273-282.
26. Mayo, P., D. Prato, J. Fraser, L. Jackson, L.W. Gallagher, O. Chicaiza, Z. Abate, F.T. Maciel, D. Kirby, D. Marcum, B. Marsh, D. Munier, S. Orloff, J. Schmierer, R. Wilson, S. Wright and **J. Dubcovsky**. 2010 Regional barley, common wheat and triticale, and durum wheat performance tests in California. Agronomy Progress Report 303, 60 pages.
27. E. Akhunov, S. Chao, V. Catana, D. See, G. Brown-Guedira, M. Sorrells, A. Akhunova, **J. Dubcovsky**, C. Cavanagh and M. Hayden. New tools for wheat genetics and breeding: genome-wide analysis of SNP variation. Proceedings of BGRI Technical Workshop, June 13-16, 2011, St. Paul, Minnesota, U.S.A.
28. Mayo, P., D. Prato, J. Fraser, L. Jackson, L.W. Gallagher, O. Chicaiza, Z. Abate, F.T. Maciel, G. Banuelos, D. Kirby, R. Wilson, , D. Marcum, B. Marsh, S. Orloff, J. Schmierer, S. Wright and **J. Dubcovsky**. 2011. Regional barley, common wheat and triticale, and durum wheat performance tests in California. Agronomy Progress Report 304, 59 pages. <http://smallgrains.ucdavis.edu/2011/pdf/2011APR304.pdf>
29. Mayo, P., D. Prato, J. Fraser, L. Jackson, L.W. Gallagher, O. Chicaiza, A. del Blanco, F.T. Maciel, G. Banuelos, D. Kirby, R. Wilson, , D. Marcum, B. Marsh, S. Orloff, D. Munier, S. Wright and **J. Dubcovsky**. 2012. Regional barley, common wheat and triticale, and durum wheat performance tests in California. Agronomy Progress Report 314, 61 pages. <http://smallgrains.ucdavis.edu/2012/oct2012.htm>

CONFERENCES AND INVITED TALKS

1. **Dubcovsky J.** 1991. Molecular genetic markers in native *Triticeae* spp. Conference at Arg. Symposium of Plant Biotechnology. Vaquerías, Córdoba, Argentina.
2. **Dubcovsky J.** 1993. Methods of genome analysis based on variation in the restriction patterns of repetitive sequences. Workshop: Methods of genome analysis in plants: their merits and pitfalls. Seventeenth International Congress of Genetics. Birmingham, United Kingdom.
3. **Dubcovsky J.** 1994. RFLP maps of *Triticum monococcum*. International Meeting of the International Triticeae Mapping Initiative (ITMI). San Diego. USA.
4. **Dubcovsky J.** 1994. Homoeologous recombination between wheat chromosomes and wild *Triticeae* chromosomes. Tools and mechanisms. Lecture at Washington State University, Pullman, Washington. USA.
5. **Dubcovsky J.** 1995. Comparative mapping between *Triticum monococcum* and other *Triticeae*: structural and nonstructural variation. International Meeting of the International Triticeae Mapping Initiative (ITMI). Norwich, United Kingdom
6. **Dubcovsky J.** 1995. Comparative molecular maps: a powerful tool for the understanding and manipulation of wheat genome. Davis, CA. USA
7. **Dubcovsky J.** 1996. Mapping of vernalization genes in *Triticum monococcum*. International Meeting of the International Triticeae Mapping Initiative (ITMI). Sydney, Australia.
8. **Dubcovsky J.** 1996. Comparative wheat -barley RFLP maps. Adelaide. Australia.
9. **Dubcovsky J.** 1996. Molecular markers for bread-making quality. Argentina-Chile Genetic Symposium. Viña del Mar, Chile.
10. **Dubcovsky J.** 1998. Molecular genetics in variety development- A role for Universities. National Wheat Industry Research Forum, San Diego, California.
11. **Dubcovsky J.** 1998. Genomic tools for the diploid A genome of wheat. Plant Genome VI, International Triticeae Mapping Initiative (ITMI) workshop. San Diego, California
12. **Dubcovsky J.** 1998. Integration of traditional wheat breeding programs with marker assisted selection techniques. Instituto de Recursos Biológicos, INTA. (7/8/98) Argentina.
13. **Dubcovsky J.** 1998. Comparative mapping and genomics in wheat. University of San Martín, (7/16/98) Argentina.
14. **Dubcovsky J.** 1998. Progress in Wheat Genomics. University of Buenos Aires, (7/20/98) Argentina.
15. **Dubcovsky, J.**, G. Tranquilli, M. Helguera, G. Muzzi, D. Lijavetzky. 1999. Development and status of a *Triticum monococcum* BAC library and its use to estimate the relationship between genetic and physical distances in three regions of chromosome 5A^m. Proceedings of the International Triticeae Mapping Initiative Public Workshop, Viterbo, Italy.
16. **Dubcovsky, J.**, L. Yan, G. Muzzi, G. Tranquilli, M. Helguera. 2000. Insights into the wheat genome from the A genome BACs. International Triticeae Mapping Initiative Public Workshop, Plant Genome VIII, San Diego, USA.
17. **Dubcovsky, J.**, 2000. Potential impact of Wheat Genomics for California Agriculture. Agronomy and Range Science Continuing Conference. Session on Genomics. Davis, CA Feb 22/24, 2000

18. **Dubcovsky, J.** 2000 Transfer of alien chromosome segments to wheat by homoeologous recombination. Theoretical and applied aspects. Mismatch Repair Workshop, Marconi Center, CA July 1st to 2nd 2000
19. **Dubcovsky, J.,** W. Ramakrishna, P. SanMiguel, C. S. Busso, and J. Bennetzen. Sequence comparison between rice and *Triticeae* colinear regions as a tool for gene discovery and gene structure annotation. 2001. International Triticeae Mapping Initiative Public Workshop, Plant Genome IX, January 14-17, San Diego, USA.
20. **Dubcovsky, J.** 2001. Advances in molecular markers for quality and disease resistance genes in wheat. Invited speaker at the Fifth Arg. Wheat Symposium. Villa Carlos Paz, Córdoba, Argentina. September 25-28.
21. **Dubcovsky, J.** 2002. "Constructing the bridge between genomics and wheat breeding". Invited talk at the Agricultural Institute of the Hungarian Academy of Sciences. June 26, Martonvasar, Hungary
22. **Dubcovsky, J.,** 2002. M. A. Soria, and I. A. Khan. 2002 Bringing genomics to the wheat fields. ASA-CSSA-SSSA Annual Meeting Indianapolis, Indiana, November 10-14, 2002
23. **Dubcovsky, J.,** 2003. Characterization of the promoter region of the *Vrn1* vernalization gene in diploid and polyploid wheat. Plant Industry, CSIRO and Australian National University. October 16, 2003, Melbourne, Australia.
24. **Dubcovsky, J.,** L. Yan, A. Loukoianov. 2003. Positional cloning of wheat vernalization genes. ASA-CSSA-SSSA Annual Meeting Denver, Colorado, November 3, 2003.
25. **Dubcovsky J.,** 2004. Molecular characterization of wheat vernalization genes. ITMI Workshop. Plant and Animal Genome XII Conference, January 2004, San Diego, CA. Approximately 400 participants.
26. **Dubcovsky, J.,** 2004. Breeding with molecular markers: Marker-assisted selection, UC Davis Extension Course for Professional and Continuing Education, 75 students, February 10-11, 2004.
27. **Dubcovsky, J.** 2004. Marker Assisted Selection in public wheat-breeding programs: bringing genomics to the wheat fields. Invited Talk at the National Wheat Workers Workshop Kansas City February 22-23. Approximately 200 participants.
28. **Dubcovsky, J.** 2004. "New genomic tools for wheat improvement". National Institute of Agricultural Technology (INTA) 100 participants. Argentina 04/06/2004.
29. **Dubcovsky, J.** 2004. "Marker assisted selection in wheat: current status". National Institute of Agricultural Technology (INTA) Argentina 04/06/2004. 100 participants.
30. **Dubcovsky, J.** 2004. "Positional cloning of wheat vernalization genes" National Academy of Agronomy. Argentina, Capital Federal 04/06/2004. 60 participants.
31. **Dubcovsky, J.** 2004. "Positional cloning of wheat vernalization genes" University of San Martin (INTI). 04/07/2004. 20 participants.
32. **Dubcovsky, J.** 2004. "From flowering time QTLs in wheat to the positional cloning of the vernalization genes" GGG 297 Seminar Series "Dissection of quantitative traits in plants". May 1st, 2004
33. **Dubcovsky, J.** 2004. "Regulation of wheat and barley flowering time by vernalization" Washington State University, Pullman WA. 06/28/2004. 80 participants.

34. **Dubcovsky, J.** 2004. "Regulation of flowering time in wheat and barley". Colorado State University, Fort Collins, Colorado. August 18, 2004.
35. **Dubcovsky, J.** What and barley adaptations to low temperatures. 1st Annual ACPFG Research Symposium, Adelaide, Australia. October 5-8, 2004
36. **Dubcovsky, J.** 2004. Genomic tools for positional cloning in the large Triticeae genomes. Buenos Aires Plant Biology Lectures, Buenos Aires October 25-27 2004.
37. **Dubcovsky, J.** 2004. Regulation of flowering time in temperate cereals. Buenos Aires Plant Biology Lectures, Buenos Aires October 25-27 2004.
38. **Dubcovsky, J.** 2005. A National Program of Marker Assisted Improvement of Wheat. North American Grain Congress. Reno Nevada, February 19-22, 2005.
39. **Dubcovsky, J.** 2005. Molecular characterization of wheat and barley vernalization genes. Invited seminar speaker. John Innes Institute, Norwich UK, July 1, 2005.
40. **Dubcovsky, J.** 2005. Molecular characterization of wheat and barley vernalization genes. Invited seminar speaker. Scottish Crop Research Institute (SCRI), Dundee, Scotland, July 4, 2005.
41. **Dubcovsky, J.** 2005. Molecular characterization of wheat and barley vernalization genes. Invited seminar speaker. Mac Planck Institute, Cologne, Germany, July 13, 2005.
42. **Dubcovsky, J.** 2005. Molecular characterization of wheat and barley vernalization genes. Invited speaker. Society of Experimental Biology Conference, Barcelona, Spain, July 15, 2005.
43. **Dubcovsky, J.** 2005. "Frontiers in Genetics" Plant Science Symposium. September 27. Regulation of flowering in temperate cereals" September 27, 2005.
44. **Dubcovsky, J.** 2005. Wheat Lines Developed with Pyramided Stripe Rust Resistance Genes. Small grain workgroup meeting. UC Davis, September 28, 2005
45. **Dubcovsky, J.** 2005. Regulation of Flowering Time in Wheat. Keynote speaker, 7th International Wheat Conference, Mar del Plata Argentina, 11/27 – 12/2 2005.
46. **Dubcovsky J.** 2006. Cloning QTLs for frost tolerance and vernalization in wheat. Plant and Animal Genome XIV Conference, January 14, 2006, San Diego, CA.
47. **Dubcovsky J.** 2006. The US Wheat Marker Assisted Selection Project (CAP-USADA)
 - August 22, 2006. Inst. of Crop Sci., Chinese Acad. of Agric. Sci. Beijing. China.
 - August 28, 2006. NW Agric. & Forestry Univ., Yangling, Shaanxi, China.
 - September 1, 2006. Shandong Agricultural Univ., Tai'an, Shandong, China
 - September 5, 2006. China Agricultural University, Beijing, China
48. **Dubcovsky J.** 2006. Impact of the Wheat CAP program on resistance to stripe rust.
 - Small Grain Workgroup Meeting, September 15 2006, Davis CA.
 - Southern Sacramento Valley Wheat Meeting. 9/20/2006, Woodland CA.
49. **Dubcovsky, J.** 2006. Organizer of the C7 Symposium on Marker Assisted Selection at the Indianapolis ASA-CSSA-SSSA Annual Meeting. November 12-16, 2006.
50. **Dubcovsky, J.** 2007. Interactions between photoperiod and vernalization in wheat and barley. The Aaronsohn-ITMI International Conference, Tiberias, Israel April 16-20, 2007

- 51 **Dubcovsky, J.** 2007. President's Symposium. The vernalization pathway in temperate cereals. American Association of Plant Biology, July 7-11, 2007, Chicago Illinois. **Keynote speaker.**
- 52 **Dubcovsky, J., C. Uauy, A. Distelfeld, and T. Fahima.**2007. *GPC-B1*, a gene regulating wheat and barley grain protein content. Invited speaker at the Translational Seed Biology Symposium: From Model Systems to Crop Improvement. September 17-20, Davis, CA.
- 53 **Dubcovsky, J., C. Uauy, A. Distelfeld, and T. Fahima.**2007. *GPC-B1*, a gene regulating wheat and barley grain protein content. Invited speaker at the Translational Seed Biology Symposium: From Model Systems to Crop Improvement. September 17-20, Davis, CA.
- 54 **Dubcovsky, J.** 2007. Engineering durum wheat pasta Quality. California Wheat Collaborator Meeting. This meeting was attended by more than 50 representatives of private breeding companies, grain handlers, millers, and bakers. Davis, CA. October 3, 2007.
- 55 **Dubcovsky, J.** 2007. The Wheat CAP project. U.S. National Wheat Genomics Conference, Kansas City MO, December 2, 2007.
- 56 **Dubcovsky, J.** 2008. Genomic tools for disease resistance in wheat. Western Wheat Workers, UC Davis CA, May 12, 2008.
- 57 **Dubcovsky, J.** 2008. Positional cloning of the temperature-dependent stripe rust resistance gene *Yr36*. 11th Int. Wheat Genetics Symp. Brisbane, Australia, August 24-29.
- 58 **Dubcovsky, J.** 2008. Genes and gene networks regulating wheat development.11th Int. Wheat Genetics Symp. Brisbane, Australia, August 24-29. **Keynote speaker.**
- 59 **Dubcovsky, J.** 2009. Positional cloning of a QTL for slow rusting in wheat. Invited speaker QTL cloning workshop. Plant and Animal Genome XVII Conference, January 2009, San Diego, CA.
- 60 **Dubcovsky, J.** 2009. Non - GMO biotechnology tools for wheat improvement – Plant Sciences Combined Continuing Conference, UC Davis, January 28, 2009.
- 61 **Dubcovsky, J.** 2009. Cloning and molecular characterization of the stripe rust resistance gene *Yr36*. In. Genes to Products – Agricultural Plant, Microbe, and Biobased Product Research” May 4 –6, 2009, Bethesda, MD
- 62 **Dubcovsky, J.** 2009. Positional cloning of a QTL for slow rusting in wheat. Instituto Nacional de Tecnologia Agropecuaria (INTA), August 4, 2009, Buenos Aires, Argentina
- 63 **Dubcovsky, J.** 2009. Improved remobilization of Zn, Fe and N from the straw to the wheat grain. XVI International Plant Nutrition Colloquium. August 26-30, Davis Ca, USA. **Keynote speaker.**
- 64 **Dubcovsky, J.** 2009. Regulation of flowering initiation in temperate cereals. 9TH Int. Plant Mol. Biol. Congress. October 25-30, 2009, St. Louis, MO – USA. **Keynote speaker.**
- 65 **Dubcovsky, J.** 2010. Genomics-assisted breeding in US public wheat breeding programs. Plant and Animal Genome XVIII Conference, “Genomics-Assisted Breeding” workshop, January 9-13, 2010, San Diego, CA.

- 66 **Dubcovsky, J.** 2010. The kinase-START domain gene *Yr36* confers partial resistance to stripe rust. Plant and Animal Genome XVIII Conference, “International Triticeae Mapping Initiative” workshop, January 9-13, 2010, San Diego, CA.
- 67 **Dubcovsky, J.** 2010. Regulation of flowering in wheat and its impact on adaptation to different environments. 2010 Heyne Crop Science Lectureship. Kansas State University, Dept. of Agronomy. March 24, 2010
- 68 **Dubcovsky, J.** 2010. Regulation of flowering in wheat and its impact on adaptation to different environments Invited Seminar. March 30, 2010 Cornell University.
- 69 **Dubcovsky, J.** 2011. Positional cloning of the *Earliness per se 1* QTL in diploid wheat. Plant and Animal Genome XIX, January 15-19, San Diego, CA. P858.
- 70 **Dubcovsky, J.** 2011. Integration of the photoperiod and vernalization pathways in the temperate cereals. NIFA Project Director Meeting Plant and Animal Genome XIX, January 15-19, San Diego, CA. P858.
71. **Dubcovsky, J.** 2011. Progress towards the positional cloning of *Sr13* and *Sr35*. BGRI Technical Workshop, St. Paul, MN June 13-16 2011.
72. **Dubcovsky, J.** 2011. Gene networks regulating flowering time in wheat. Key Note speaker. 21st International Triticeae Mapping Initiative (ITMI), Mexico City, September 4 – 9, 2011.
73. **Dubcovsky, J.** 2011. “Using genomics information to breed new wheat varieties”. Seed Central and Seed Biotechnology Center. UC Davis – Industry networking event November 9th 2011 (100 participants).
74. **Dubcovsky, J.** 2012. New approaches to rust resistance in wheat. In “Genomics for Disease resistance” section at the Plant and Animal Genome XX, January 14-18, San Diego, CA.
75. **Dubcovsky, J.** Breeding, Biotech and advances in plant genetics. Wheat and Feed Grains Commodity Advisory Committee. March 12, 2012 Sacramento CA.
76. **Dubcovsky, J.** Advances in breeding wheat varieties for California. California Wheat Commission. 2012 04 11. Sacramento CA
77. **Dubcovsky, J.** “Regulation of flowering in temperate cereals”. 2012 04 18. UC. Riverside invited seminar. Riverside, CA
78. **Dubcovsky, J.** 2012. “Genomic tools to ameliorate the impact of climate change on wheat and barley production”. Co-chair and invited speaker of the session “Genomics and Breeding for Enhanced Climate Adaptation and Mitigation: New Knowledge and Knowledge Transfer” at the tri-society meetings (ASA-CSSA-SSSA), in October 21-24, Cincinnati OH.
79. **Dubcovsky, J.** 2013. Improving barley and wheat germplasm for changing environments. USDA-NIFA AFRI Plant Genome, Genetics and Breeding Project Director Meeting. Invited speaker. Plant and Animal Genome XXI, January 12-16, 2013, San Diego CA.
80. **Dubcovsky, J.** 2013. “Use of TILLING mutants to dissect the wheat flowering pathway” Invited speaker at the Grass Genome Initiative (IGGI) Workshop. Plant and Animal Genome XXI, January 12-16, 2013, San Diego CA.

81. **Dubcovsky, J.** 2013. Integrating, sending and decoding environmental signals in the wheat flowering response. American Society of Plant Biology. **Keynote speaker**. April 12-13, 2013, Davis CA.

COMMUNICATIONS IN MEETINGS AND SYMPOSIA

1. **Dubcovsky, J.** and A. Martínez. 1986. Phenetic and chromosomic relationships among Patagonian *Festuca* spp. XVII Arg. Congress of Genetics. Río Cuarto, Córdoba, Argentina.
2. **Dubcovsky, J.** and A. Martínez. 1987. Karyotype variation in Patagonian fescues. XVIII Arg. Congress of Genetics. Buenos Aires, Argentina.
3. **Dubcovsky, J.** and A. Martínez. 1988. Numerical analysis of the karyotypes and meiotic behaviour of *Festuca* (Poaceae) section Ovina from Patagonia. XIX Arg. Congress of Genetics. Jujuy, Argentina.
4. Oliva, G.; **J. Dubcovsky**; A. Martínez and M. Collantes. 1988. Morphological and breeding system variation in *Festuca pallescens* and *F. gracillima*. XIX Arg. Congress of Genetics. Jujuy, Argentina.
5. Zuloaga, F. O.; O. Morrone and **J. Dubcovsky**. 1989. *Panicum sabulorum* (Poaceae: Paniceae) and related species. Taxonomy, morphology, anatomy and cytology. XXII Arg. Botanical Congress. Córdoba, Argentina.
6. Bertoni, M. D., D. Cabral and **J. Dubcovsky**. 1989. Fungic endophytes in *Festuca* spp. XXII Jornadas Argentinas de Botánica. Córdoba, Argentina.
7. **Dubcovsky, J.** and A. Martínez. 1989. Numerical analysis of the karyotypes of Patagonian *Festuca* spp. Congruence with phenetic classifications. XXII Arg. Botanical Congress. Córdoba, Argentina.
8. **Dubcovsky, J.**, M. A. Soria and A. Martínez. 1989. Karyotype analysis of the tetraploid South American *Elymus*. XXII Arg. Botanical Congress. Córdoba, Argentina.
9. Oliva, G.; A. Martínez; **J. Dubcovsky** and M. Collantes. 1989. Morphological variation among *F. pallescens* (St-Yves) Parodi populations. XXII Arg. Botanical Congress. Córdoba, Argentina.
10. Zuloaga, F. O.; **Dubcovsky J.** and Morrone O. 1990. Chromosomic and nucleolar variation in subgenus *Dichantherium* (Panicum: Paniceae). V South American Botanical Congress. Cuba.
11. **Dubcovsky J.** and A. Martínez. 1990. Unusual variation in nucleolar number in South American *Festuca* spp. V South American Botanical Congress. Cuba.
12. **Dubcovsky J.** Molecular genetic markers in plants. Conference at Simposio Argentino de Biotecnología en plantas. Vaquerías, Córdoba. 1991.
13. Lewis S., **J. Dubcovsky**, A. Martínez and S. Feingold. 1991. Ribosomal genes evolution in *Elymus*. XXIII Jornadas Argentinas de Botánica.
14. **Dubcovsky J.** and J. Dvorak. 1992. Comparison of *Triticum monococcum* and *T. aestivum* chromosome 1A linkage maps based on homologous and homoeologous recombination. Proceedings of the 3rd International Meeting of the International Triticeae Mapping Initiative (ITMI). CIMMYT. México.

15. Dvorak, J., **J. Dubcovsky**. 1992. Status of the mapping of chromosomes of the homoeologous group 4. Proceedings of the 3rd International Meeting of the International Triticeae Mapping Initiative (ITMI). CIMMYT. México.
16. Dvorak, J., **J. Dubcovsky** and H.-B. Zhang. 1993. The use of variation in repeated nucleotide sequences in genome analysis. Seventeenth International Congress of Genetics. Birmingham, United Kingdom.
17. **Dubcovsky J.**, and J. Dvorak. 1994. Effect of the Ph1 gene over recombination between RFLP markers in wheat chromosome 1A. Plant Genome II. San Diego. USA.
18. **Dubcovsky J.**, and J. Dvorak. 1994. The genome origin of the species of the *T. crassum* complex examined using variation in repeated nucleotide sequences. Triticeae 2nd International Symposium. Logan, Utah, USA.
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