CURRICULUM VITAE

Dubcovsky Jorge, ORCID 0000-0002-7571-4345

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, 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

- 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. 2003-2014.
- Distinguished Professor, Dept. of Plant Sciences. UC Davis. 2014-continue.
- HHMI Investigator. 2011-2024

Actual position

- Distinguished Professor Step XI, 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
  https://www.springer.com/life+sciences/plant+sciences/journal/122?detailsPage=editorialBoard
- Associate Editor Functional and Integrative Genomics. 2008-continue
  https://www.springer.com/life+sciences/cell+biology/journal/10142?detailsPage=editorialBoard
- Invited Editor Proc. Natl. Acad. of Sci. U.S.A

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. Am. Soc, of Pl. Biol, “Hoagland Award” outstanding 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. Platinum Konex Award Argentina. Best researcher in Genetics and Genomics 2003-2013.
2013. Member of the Am. Soc. of Ag. (ASA) and Crop Sci. Soc. of Am. (CSSA) USA
2013. Member of the National Academy of Science of the USA
2014. Wolf World Award in Agriculture 2014.
2015. USDA-NIFA Partnership Award (as leader of the Triticeae CAP project)
2017. UC Davis Chancellor's Innovation Award.
2019 and 2020. Highly cited researchers across-fields Publons (0.1% top citations worldwide).
2022. CSSA Frank N. Meyer Medal for Plant Genetic Resources.

SOCIETIES

Member of the National Academy 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)
1998-2018 Professor for "Experimental design and analysis" (PLS205, UC Davis).
2005-2010 Professor for "Applied Bioinformatics" (BIT150, UC Davis).

Graduate students

<u>30 PhD students (2 in progress)</u>

2000-2006 Major Professor, PhD, Gabriela Tranquilli (UCD-Argentina). Researcher INTA
2001-2005 Co-director, PhD, Sofia Olmos (UCD-Argentina). Professor Argentina
2002-2006 Major Professor, PhD, Cristobal Uauy (UCD). Project Leader John. Innes UK
2004-2009 Major Professor, PhD, Juan Brevis (UCD). INARI
2005-2010 Major Professor, PhD, Malena Faricelli (UCD). Now Breeder private company
2006-2011 Major Professor, PhD, Iago Lowe (UCD). Now Professor U. of New England
2007-2011 Major Professor, PhD, Marcos Bonafede (UCD-Argentina). Researcher INTA
2007-2011 Major Professor, PhD, Baoju Yang (UCD-China). Postdoc UCD. Chinese Acad. Sci.
2009-2013 Major Professor, PhD, Rebecca Nitcher (UCD). May 2014. BASF

2010-2015 Co-director, PhD, Facundo Tabbita (UBA). March 2015.
2011-2015 Major Prof. PhD, Brittany Hazard (UCD, IGG). 6/2015. Quadram Ins. Bioscience, UK
2012-2015 Co-Director, PhD Shisheng Chen, Sichuan Agricultural University, May 2015
2011-2015 Major Professor, PhD, Nestor Kippes, (Univ. of Bs. As., Argentina), Dec. 2015.
2012-2016 Co-Director, PhD Kun Li, Shandong Agricultural University, UCD postdoc.
2011-2016 Major Professor, PhD, Tyson Howell (UCD, IGG). Scientist at BASF.
2011-2016 Major Professor, PhD, Alejandra Alvarez (Univ. San Martin Arg.). UCD postdoc.
2012-2015 Co-Director, PhD Xiaodong Zhang, Professor Ag. Univ. Hebei
2014-2016 Co director, PhD, Zhenzhen Dong, (China Ag. Univ., China). Completed 2017.
2015-2019 Co director, PhD, Guo Yan, (China Ag. Univ., China). Completed 2017.
2011-2017 Major Professor, PhD, Josh Hegarty (UCD, GGHA). Triticale Breeder UCD.
2011-2018 Major Professor, PhD, Nicolas Cobo (UCD, GGHA). U. de la Frontera, Chile
2014-2018 Major Professor, PhD, Youngjun Mo (UCD, GGHA). Prof. JeonBuk Nat. Univ.
2014-2018 Major Professor, PhD, André Schönhofen (UCD, GGHA). Wheat breeder Brazil.
2014-2019 Major Professor, PhD, Stephen Bolus (UCD, PBGG). Silvec Biologics, MD, USA.
2017-2020 Co director, PhD, Yazhou Zhang (China, Sichuan Ag. Univ.). Lecturer, China
2014-2020 Major Professor, PhD, Hans Vasquez-Gross (UCD, IGG). Bioinformatician U. Reno.
2016-2021 Major Professor, PhD, Saarah Kuzay (UCD, GGHA). Researcher Vertical Farming.
2017-2022 Major Professor, PhD, Priscilla Glenn (UCD, GGHA). Post Doc Texas A&M
2015-2022 Major Professor, PhD, Chen Dang (UCD, GGHA). *In progress*.
2023-2022 Major Professor, PhD, Maria G. Rottersman (UCD, PBGG). *In progress*.

<u>9 MS students (1 in progress)</u>

1990-1991 Co-director, MS, Silvina Marta Lewis (Argentina). Now Scientist INTA
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
1999-2004 Co-director, MS, Laura Appendino (Argentina). Now Professor Univ. of Bs.As.
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.
2014-2015 Major Professor, MS. Felix Dubach (ETH Zurich-UCD). Tech. Andermatt Biocontrol.
2015-2022 Major Professor, MS. Francine Paraiso (UCD).

PATENTS (5) AND VARIETY PVPs (22)

1. 2001 Qualset C., H. Vogt, J. Heaton, L. Jackson, D. Gillchrist, and, **J. Dubcovsky**. HRS wheat variety 'Kern'. PVP 2000-00047.
2. 2003 **Dubcovsky, J.**, L. Yan, and A. Loukoianov. Genes responsible for vernalization regulation temperate grasses and uses thereof. No. WO/2004/091287
3. 2004 **Dubcovsky, J.**, O. Chicaiza, L. Jackson. HWS wheat variety 'Clear White'. PVP 2004-00244.
4. 2005 **Dubcovsky, J.**, O. Chicaiza, L. Jackson. Durum variety 'Desert King'. PVP 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.

6. 2006 **Dubcovsky, J**., O. Chicaiza, L. Jackson. PVP for HWS wheat variety 'Patwin'. PVP 2006-00297.
7. 2008 **Dubcovsky, J**., O. Chicaiza, L. Jackson. PVP for HRS wheat variety 'Lassik'. PVP 2008-00176.
8. 2009 **Dubcovsky, J.,** T. Fahima, C. Uauy, A. Distelfeld, A. Blechl. Kinase-START gene conferring resistance to plant disease and transgenic plants comprising it. US Patent 09464299
9. 2011 **Dubcovsky, J.**, O. Chicaiza, X. Zhang. Durum variety 'Desert King-High Protein'. PVP 2010-00585.
10. 2011 **Dubcovsky, J.**, O. Chicaiza. Durum variety 'Tipai'. PVP 2012-00013.
11. 2012. **Dubcovsky, J.**, O. Chicaiza, X. Zhang. PVP for HWS wheat variety 'Patwin-515'. PVP 2012-00476.
12. 2013. **Dubcovsky, J.**, O. Chicaiza, X. Zhang. Durum wheat variety 'Miwok'. PVP 2014-00031.
13. 2014. **Dubcovsky, J.**, O. Chicaiza, X. Zhang. Common wheat variety 'Yurok'. PVP 2015-00492.
14. 2016. **Dubcovsky, J.**, O. Chicaiza, X. Zhang. Common wheat variety 'Patwin-515HP'. PVP 2016-00390.
15. 2016. del Blanco, I. A., L. Gallagher, J. Hegarty, **J. Dubcovsky**. Malting barley variety 'UC-Tahoe'. PVP 2017-00009.
16. 2017. **Dubcovsky, J.**, O. Chicaiza, X. Zhang. Common white wheat variety with high resistant starch 'UC-Patwin-RS'. PVP 2018-00058. Issued 06/28/2019.
17. 2017. **Dubcovsky, J.**, O. Chicaiza, X. Zhang. Common red wheat variety with high resistant starch 'UC-Lassik-RS' PVP 2018-00070. Issued 07/03/2019.
18. 2017. **Dubcovsky, J.**, O. Chicaiza, X. Zhang. Durum wheat variety with high resistant starch 'UC-Desert King-RS'. PVP 2018-00069. Issued 06/28/2019.
19. 2017. Olivier, J.P.; T. Todaro, **J. Dubcovsky**, W. Zhang. Identification and use of KRP mutants in wheat. Patent Number(s): US 09745596.
20. 2018. **Dubcovsky, J.**, O. Chicaiza, X. Zhang. Common red wheat variety 'UC-Central Red'. PVP 2019-00011. Issued 05/19/2020,
21. 2018. **Dubcovsky, J.**, O. Chicaiza, X. Zhang. Durum wheat variety 'UC-Desert Gold'. PVP 2019-00010. Issued 05/19/2020
22. 2019. **Dubcovsky, J.**, Debernardi, J.M., D. Tricoli, J. Palatnik**.** Methods for improved regeneration of transgenic plants using Growth-Regulating Factor (GRF), GRF-Interacting Factor (GIF), or chimeric GRF-GIF genes and proteins. US Patent App. 17/597,511, 2023. Publication date 2023/2/2
23. 2019. **Dubcovsky, J.**, O. Chicaiza, X. Zhang. HWS variety with yellow pigment 'UC-Amarillo'. PVP No. 2020-00013. Application 10/23/2019, Issued 06/22/2020.
24. 2020. del Blanco, I. A., L. Gallagher, J. Hegarty, **J. Dubcovsky**. Malting barley variety 'UC-Capay'. PVP 202100205. Application 11/20/2020. Issued 12/10/2021
25. 2020. Hegarty, J., **J. Dubcovsky**. Triticale 'UC-Atrea'. PVP 202100267, 3/5/2021.
26. 2020. Hegarty, J., **J. Dubcovsky**. Triticale 'UC-Bopak'. PVP 202100269, 3/5/2021.

27. 2020. **Dubcovsky, J.**, O. Chicaiza, X. Zhang. HRS variety 'Yecora Rojo-515' PVP 202100356, 3/10/2021. Awarded 5/2022

28. 2023 **Dubcovsky, J.**, O. Chicaiza, X. Zhang, J. Hegarty. HWS wheat UC-Central White. PVP pending.

29. 2023 Alicia del Blanco and **J. Dubcovsky**. Malting barley variety UC-Alameda (PI 701932). PVP pending.

VARIETIES (30) AND GERMPLASM (78)

Durum wheat (5): Desert King, Tipai, Desert King-High Protein, Miwok, UC-Dessert Gold.

Common wheat (11): Kern (HRS), Clear White (HWS), Lassik (HRS), Patwin (HWS), Patwin 515 (HWS), Yurok (HRS), Patwin-515HP, UC-Central Red (HRS), UC-Amarillo (HWS), Yecora Rojo-515 (HRS), UC-Central White (HWS).

High resistant starch wheat (3): UC-Desert King-RS (durum), UC-Lassik-RS (HRS) and UC-Patwin RS (HWS).

Malting barley (2): UC-Tahoe, UC-Capay, UC-Alameda.

Triticale (2): UC-Atrea, UC-Bopak.

Collaborations with industry (6): Blanca Grande 515, Summit 515, Expresso, New Dirkwin, Westmore, Tiburon.

Germplasm (78): PI 638738 - PI 638742, PI 603918, PI 603919, PI 651012, GSTR 13606, GSTR 13634, GSTR 13600, GSTR 13664, GSTR 13504, GSTR 13618, GSTR 13501-13687 (186 RILs), PI 656793, PI 664549; ***SbeII mutants tetraploid:*** PI 670159-PI 670161; ***9 FT-B1***: PI 671995 - PI 672004. ***1RS***: PI 672837 - PI 672839; ***GPC-B1 mutants***: PI 673410 - PI 673415. ***10 NILs Glu-A3 & Glu-B3 alleles***: PI 674000 - PI 674009. ***6 Gw2* mutants grain size**: PI 675010-675015. ***3 Glu-D1*$_{2+12}$** isogenic lines in durum wheat: PI 672996 (UC 1113-*GpcB1-Glu-D1*$_{2+12}$), PI 672997 (UC1171-*Glu-D1*$_{2+12}$), PI 672998 (UC1308-*Glu-D1*$_{2+12}$). **Synthetic *vrn2*-null** PI 676269. ***SbeII mutants***: PI 675644-675647. ***RHT-B1*$_{E529K}$** intermediate height: PI 687144, ***Sr60*** introgression: PI 689563. ***Glu-B1x* mutant**: PI 692251, ***Glu-B1y***: PI 692253, ***Glu-B1x Glu-B1y* double mutant:** PI 692252. **Kronos mutants *vrn1 vrn2***: PI 698812, ***ful2 vrn2***: PI 698814, ***ful3 vrn2***: PI 698815, ***vrt2***: PI 698811, ***svp1***: PI 698813. ***Wapo-A1b* allele (haplotype H2) introgression Kronos**: PI 698810. ***FT-A2* A10 allele introgression into Kronos**: PI 699107. **SrKN (Sr9e) introgression in Fielder**: PI 700734. *Sr22b* introgression in Fielder: PI 700735. **Photoperiod sensitive Kronos allele *Ppd-A1b***: PI 701905, **Kronos *elf3 phyB*** knock-out mutant: PI 701906, **Kronos *elf3 ppd1*** knock-out mutant: PI 701907. **Kronos *platz-A1 platz-B1*** combined knock-out mutant BC_4F_3: PI 702421.

PEER REVIEWED PUBLICATIONS

282 publications 204 as first or senior author

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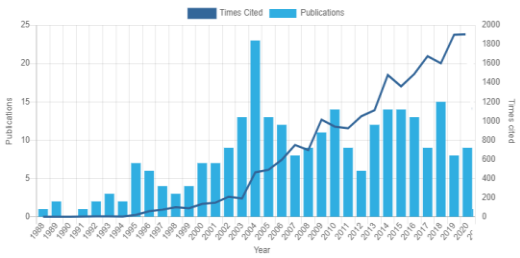

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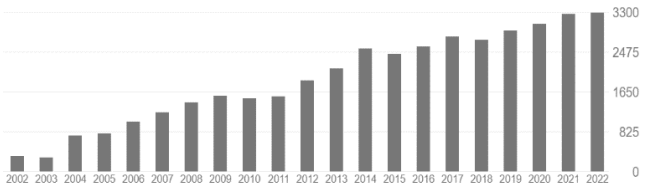

2023 (6)

282. S. A. Boden, R. A. McIntosh, C. Uauy, S. G. Krattinger, **J. Dubcovsky**, W. J. Rogers, X. C. Xia, E. D. Badaeva, A. R. Bentley, G. Brown-Guedira, M. Caccamo, L. Cattivelli, P. Chhuneja, J. Cockram1, B. Contreras-Moreira, S. Dreisigacker, D. Edwards, F. G. González, C. Guzmán, T. M. Ikeda, I. Karsai, S. Nasuda, C. Pozniak, R. Prins, T. Z. Sen, P. Silva, H. Simkova, Y. Zhang, the Wheat Initiative. 2023. Updated guidelines for gene nomenclature in wheat. Theor. Appl. Genet. 136:72 https://doi.org/10.1007/s00122-023-04253-w

* 281. Debernardi J.M., G. Burguener, K. Bubb, Q. Liu, C. Queitsch, **J. Dubcovsky.** 2023 Optimization of ATAC-seq in wheat seedling roots using INTACT-isolated nuclei. BMC Plant Biology accepted Research Square https://doi.org/10.21203/rs.3.rs-2058892/v1

* 280. Zhang J., C. Li, W. Zhang, X. Zhang, Y. Mo, G. E. Tranquilli, L.S. Vanzetti, **J. Dubcovsky** (2023) Wheat plant height locus *RHT25* encodes a PLATZ transcription factor that interacts with DELLA (RHT1). Proc. Natl. Acad. Sci. USA. In press bioRxiv:2023.2001.2005.522836.

* 279 Alvarez M.A., C. Li, H. Lin, A. Joe, M. Padilla, D.P. Woods, **J. Dubcovsky**. EARLY FLOWERING 3 interactions with PHYTOCHROME B and PHOTOPERIOD1 are critical for the photoperiodic regulation of wheat heading time. PLoS Genetics accepted. bioRxiv doi: 10.1101/2022.10.11.511815

* 278 Gabay, G., H. Wang, J. Zhang, J. I. Moriconi, G. F. Burguener, T. Howell, A. Lukaszewski, B. Staskawicz, M.-J. Cho, J. Tanaka, T. Fahima, H. Ke, K. Dehesh, G.-L. Zhang, J.-Y. Gou, M. Hamberg, G. Santa Maria, **J. Dubcovsky**. 2023. Dosage differences in *12-OXOPHYTODIENOATE REDUCTASE* genes modulate wheat primary root growth. Nature Communications. 14:539. https://doi.org/10.1038/s41467-023-36248-y.

277. Chen, Z., J.M. Debernardi, **J. Dubcovsky**, A Gallavotti. 2023. Recent advances in crop transformation technologies. Nature Plants. 8: 1343–1351. https://doi.org/10.1038/s41477-022-01295-8

* 276. Zhang, J, J.M. Debernardi, G. Burguener, F. Choulet, E. Paux, L. O'Connor, J. Enk, and **J. Dubcovsky**. 2023. A second generation capture panel for cost-effective sequencing of genome regulatory regions in wheat and relatives. The Plant Genome. 16:e20296 https://doi.org/10.1002/tpg2.20296

2022 (9)

275. Jiang, D., L. Hua, C. Zhang, H. Li, Z. Wang, J. Li, G. Wang, R. Song, T. Shen, H. Li, S. Bai, Y. Liu, J. Wanga, H. Li, **J. Dubcovsky**, S. Chen. 2022. Mutations in the miRNA165/166 binding site of the *HB2* gene result in pleiotropic effects on morphological traits in wheat. The Crop Journal. 11:9-20. https://doi.org/10.1016/j.cj.2022.05.002.

*274. del Blanco, I.A., J.M. Hegarty, **J. Dubcovsky**. 2022. Registration of 'UC-Capay' a low grain protein, non GN-producer, California adapted two-rowed spring malting barley. Journal of Plant Registration. 16:487–494

*273. Dang, C., J. Zhang, **J. Dubcovsky**.2022. High-resolution mapping of *Yr78*, an adult plant resistance gene to wheat stripe rust. The Plant Genome, 15: e20212. https://doi.org/10.1002/tpg2.20212.

*272. Debernardi, J.M., D.P. Woods, K. Li, C. Li, **J. Dubcovsky**. 2022. MiR172-*APETALA2-like* genes integrate vernalization and plant age to control flowering time in wheat. PLoS Genetics, 18: e1010157. https://doi.org/10.1371/journal.pgen.1010157.

271. He F., W. Wang, W.B. Rutter, K.W. Jordan, J. Ren, E. Taagen, N. DeWitt, D. Sehgal, S. Sukumaran, S. Dreisigacker, M. Reynolds, S. Liu, J. Chen, A. Fritz, J. Cook, G. Brown-Guedira, M. Pumphrey, A. Carter, M. Sorrells, **J. Dubcovsky**, M.J. Hayden, A. Akhunova, P.L. Morrell, L. Szabo, M. Rouse, E. Akhunov. 2021. Genomic variants affecting homoeologous gene expression dosage contribute to agronomic trait variation in allopolyploid wheat. Nat. Communications. 13:826. https://doi.org/10.1038/s41467-022-28453-y

*270. Kuzay, S., H. Lin, C. Li, S. Chen, D. Woods, J. Zhang, and **J. Dubcovsky**. 2022. *WAPO-A1* is the causal gene of the 7AL QTL for spikelet number per spike in wheat. PLoS Genetics 18: e1009747. https://doi.org/10.1371/journal.pgen.1009747.

*269. Glenn, P., J. Zhang, G. Brown-Guedira, N. DeWitt, J.P. Cook, K. Li, **J. Dubcovsky**. 2022. Identification and characterization of a natural polymorphism in *FT-A2* associated with increased number of grains per spike in wheat. Theor. Appl. Genet. 135:679–692. https://doi.org/10.1007/s00122-021-03992-y.

268. Yu, S., M. Li, **J. Dubcovsky**, and L. Tian. 2022. Mutant combinations of *lycopene ε-cyclase* and β-*carotene hydroxylase 2* homoeologs increased beta-carotene accumulation in endosperm of tetraploid wheat (*Triticum turgidum* L.) grains. Plant Biotech. J. 20, 564–576. https://doi.org/10.1111/pbi.13738.

267. Luo, J., M.N. Rouse, L. Hua, H. Li, B. Li, T. Li, W. Zhang, C. Gao, Y. Wang, **J. Dubcovsky**, S. Chen. 2022. Identification and characterization of *Sr22b*, a new allele of the wheat stem rust resistance gene *Sr22* effective against the Ug99 race group. Plant Biotechnology Journal. 20: 554–563. https://doi.org/10.1111/pbi.13737.

2021 (6)

266. Jordan J., P. Bradbury, Z.R. Miller, M. Nyine, F. He, M. Fraser, J. Anderson, E. Mason, A. Katz, S. Pearce, A.H. Carter, S. Prather, M. Pumphrey, J. Chen, J. Cook, S. Liu, J. Rudd, Z. Wang, C. Chu, A.M.H. Ibrahim, J. Turkus, E. Olson, R. Nagarajan, B. Carver, L. Yan, E. Taagen, M.E. Sorrells, B. Ward, J. Ren, A. Akhunova, G. Bai, R. Bowden, J. Fiedler,

J. Faris, **J. Dubcovsky**, M. Guttieri, G. Brown-Guedira, E.S. Buckler, J. Jannink, E. Akhunov. 2021. Development of the Wheat Practical Haplotype Graph Database as a Resource for Genotyping Data Storage and Genotype Imputation. G3 Genes | Genomes | Genetics, jkab390, https://doi.org/10.1093/g3journal/jkab390.

265. Wang, L., Zhu, T., Rodriguez, J.C., Deal, K.R., **Dubcovsky, J.**, McGuire, P.E., Lux, T., Spannagl, M., Mayer, K.F.X., Baldrich, P., Meyers, B.C., Huo, N., Gu, Y.Q., Zhou, H., Devos, K.M., Bennetzen, J.L., Unver, T., Budak, H., Gulick, P.J., Galiba, G., Kalapos, B., Nelson, D.R., Li, P., You, F.M., Luo, M.C., and Dvorak, J. 2021. *Aegilops tauschii* genome assembly Aet v5.0 features greater sequence contiguity and improved annotation. G3 Genes | Genomes | Genetics: jkab325.

264. Li, H., L. Hua, M.N. Rouse, T. Li, S. Pang, S. Bai, T. Shen, J. Luo, H. Li, W. Zhang, X. Wang, **J. Dubcovsky**, S. Chen. 2021. Mapping and characterization of a wheat stem rust resistance gene in durum wheat 'Kronos'. Frontiers in Plant Science. 12:751398. doi: 10.3389/fpls.2021.751398

*263. Li K., J. M. Debernardi, C. Li, H. Lin, C. Zhang, **J. Dubcovsky**. 2021. Interactions between SQUAMOSA and SVP MADS-box proteins regulate meristem transitions during wheat spike development. **The Plant Cell**. 33: 3621–3644. doi:10.1093/plcell/koab243. PMC8643710

*262. Chen, S., J. Hegarty, T. Shen, L. Hua, H. Li, J. Luo, H. Li, S. Bai, C. Zhang, **J. Dubcovsky**. 2021. Stripe rust resistance gene *Yr34* (synonym *Yr48*) is located within a distal translocation of *Triticum monococcum* chromosome $5A^{m}L$ into common wheat. Theor. Appl. Genet. 134: 2197–2211.

*261. Gabay, G., J. Zhang, G. F. Burguener, T. Howell, H. Wang, T. Fahima, A. Lukaszewski, J. I. Moriconi, G. E. Santa Maria, **J. Dubcovsky**. 2021. Structural rearrangements in wheat (1BS)–rye (1RS) recombinant chromosomes affect gene dosage and root length. The Plant Genome, 14:e20079.

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*260. Vasquez-Gross H., S. Kaur, L. Epstein, **J. Dubcovsky.** 2020. A haplotype-phased genome of wheat stripe rust pathogen Puccinia striiformis f. sp. tritici, race PST-130 from the Western USA. PLoS One 15:e0238611

*259. Debernardi, J.M., D. Tricoli, M.F. Ercoli, P. Ronald, J.F. Palatnik, **J. Dubcovsky.** 2020. A chimera including a GROWTH-REGULATING FACTOR (GRF) and its cofactors GRF-INTERACTING FACTOR (GIF) increases transgenic plant regeneration efficiency. **Nature Biotechnology**. 38:1274-1279. doi: 10.1038/s41587-020-0703-0. PMC7642171.

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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.

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RESEARCH PROJECTS (Cumulative $81.24 M 2021)

1. **PI** 1994 -1995. Evolution and origin of the genomes of South American *Triticeae* based on variation in repeated nucleotide sequences. Antorchas: $6.800.
2. **PI** 1995-1996. Wheat National Program - INTA. Marker assisted quality improvement: $12.000.
3. **PI** 1996. Antorchas Foundation. "Identification and molecular characterization of Argentine wheat cultivars. Genetic diversity in old and new cultivars: $6.000.

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**. 2005-2014. Developing Wheat Varieties for California. California Crop Improvement Association. $600,000

45. **PI.** 2010-2011. TILLING-mediated modification of wheat starch branching enzyme II (SBEIIa and SBEIIb) in durum wheat. Univ. Saskatchewan. $70,000.

46. **PI.** 2010-2013. Molecular characterization and deployment of the high-temperature adult plant stripe rust resistance gene *Yr36* (*WKS1*) from wheat. BARD. $250,000

47. **PI.** 2011-2016. Improving barley and wheat germplasm for changing environments. USDA-CAP. $25,000,000.

48. **PI.** 2011-2016. Light regulatory networks connecting phytochromes and photoperiod in wheat development. USDA-NRI. $499,607.

49. **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.

50. **PI.** 2014-2017. Molecular characterization and deployment of the high-temperature adult plant stripe rust resistance gene *Yr36* (*WKS1*) from wheat. BARD. $250,000.

51. **PI.** 2016-2018. USDA-NRI. PRR37/PPD1 promotes flowering in long day grasses and represses flowering in short day grasses $500,000.

52 co**PI.** 2015-2018. IWYP. Molecular dissection of spike yield components in wheat. $ 685,689

53. **PI.** 2015-HHMI. Supplemental Funding to increase sequenced wheat TILLING population. $75,000.

54. **PI.** 2014-2015-HHMI Equipment Grant. $177,351.

55. **PI.** 2014-2015. CCIA/CWC. Developing and testing small grain varieties for California. $926,000.

56. **PI**. 2016-2019. BARD. Positional cloning of a rye QTL responsible for water stress resistance in wheat based on radiation mapping and comparative genomics. $142,000.

57. **PI.** 2014-2015-HHMI Equipment Grant. Marvin and Geno Grinder. $32,444

58. **PI**. 2016-2017. CCIA/CWC. Developing and testing small grain varieties for California. $264,000.

59. **PI**. 2016-2021. USDA-NIFA. Coordinated Agricultural Project (WheatCAP): "Validation, characterization and deployment of QTL for grain yield components in wheat". $9,700,000

60. **PI.** 2017-2024. HHMI award for seven years. Development of Genomic Tools to Dissect Regulatory Gene Networks in Wheat. $7,000,000.

61. **PI.** 2020-2023. PI. Increasing wheat nutritional value through changes in resistant starch composition. FFAR. $960,000.

62. **PI.** 2019-2022. Validation of candidate genes for water stress tolerance & their diversity in wheat. BARD. $310,000.

63. **PI**. 2018-2020. CCIA/CWC. Developing and testing small grain varieties for California. $826,000.

64. coPI. 2020-2021. USDA-NIFA. Expanding the benefits of gene editing to minor crops with low regeneration efficiency by using a plant growth-regulator with enhanced activity. $50,000.

65. **PI**. 2021-2024. USDA-NIFA. “Manipulating wheat juvenile phase to improve productivity”. $633,672.

66. **PI**. 2021-2024. USDA-NIFA. Cultivar development: commercialization of spring & winter triticale for forage & feed.

67. **PI**. 2022-2026. USDA-NIFA. Coordinated Agricultural Project. “Leveraging high-throughput genotyping and phenotyping technologies to accelerate wheat improvement and mitigate the impacts of climate change”. $15,000,000.

68. **PI**. 2022-2025 BARD. Molecular characterization and natural variation of 12-oxophytodienoate reductases that modulate wheat root architecture. $310,000.

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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

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triticale, and durum wheat performance tests in California. Agronomy Progress Report 293: 1-52.

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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. McIntosh, R.A., **J. Dubcovsky**, W.J. Rogers, C.F. Morris, R. Appels, and X.C. Xia. 2011. Catalogue of gene symbols for wheat: 2011 Supplement. Annual Wheat Newsletter 57: 303-321 http://wheat.pw.usda.gov/ggpages/awn/57/

30. 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

31. McIntosh, R.A., **J. Dubcovsky**, W.J. Rogers, C.F. Morris, R. Appels, and X.C. Xia. 2012. Catalogue of gene symbols for wheat: 2012 Supplement. Annual Wheat Newsletter 58 In press.

32. McIntosh, R.A., Yamazaki, J., **J. Dubcovsky**, W.J. Rogers, C.F. Morris, R. Appels, and X.C. Xia. 2013. Catalogue of gene symbols for wheat. 12th International Wheat Genetics Symposium. 8-13 September 2013 Yokahama Japan.

33. 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**. 2013. Regional barley, common wheat and triticale, and durum wheat performance tests in California. Agronomy Progress Report 316, 48 pages. http://smallgrains.ucdavis.edu/2013/pdf/2013apr316.pdf

34. 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, M. Lundy, S. Wright, and **J. Dubcovsky**. 2014. Regional barley, common wheat and triticale, and durum wheat performance tests in California. Agronomy Progress Report 318, 51 pages. http://smallgrains.ucdavis.edu/2014/pdf/2014apr318.pdf

35. McIntosh, R.A., Y. Yamazaki, J. Dubcovsky, W.J. Rogers, C.F. Morris, R. Appels, and X.C. Xia. 2014. Catalogue of gene symbols for wheat: 2013. Proc. of the 12th International Wheat Genetics Symp. 8-13 September 2013 Yokohama, Japan. http://wheat.pw.usda.gov/GG2/Triticum/wgc/2013/GeneCatalogueIntroduction.pdf

36. McIntosh, R.A., J. Dubcovsky, W.J. Rogers, C.F. Morris, R. Appels, and X.C. Xia. 2014. Catalogue of gene symbols for wheat: 2013-2014 Supplement. http://maswheat.ucdavis.edu/CGSW/2013-2014_Supplement.pdf

37. Mayo, P., D. Prato, J. Fraser, L. Jackson, L.W. Gallagher, O. Chicaiza, A. del Blanco, F.T. Maciel, D. Culp, R. Wilson, D. Marcum, B. Marsh, S. Orloff, M. Lundy, S. Wright, and **J. Dubcovsky**. 2015. Regional barley, common

wheat and triticale, and durum wheat performance tests in California. Agronomy Progress Report 320, 55 pages.

38. McIntosh, R.A., J. Dubcovsky, W.J. Rogers, C.F. Morris, R. Appels, and X.C. Xia. 2016. Catalogue of gene symbols for wheat: 2015-2016 Supplement. https://shigen.nig.ac.jp/wheat/komugi/genes/macgene/supplement2015.pdf

39. McIntosh, R.A., J. Dubcovsky, W.J. Rogers, C.F. Morris, R. Appels, and X.C. Xia. 2017. Catalogue of gene symbols for wheat: 2017 supplement. https://shigen.nig.ac.jp/wheat/komugi/genes/macgene/supplement2017.pdf

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 Biologicos, 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, Melburne, 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. **Keynte 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.

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.

82. **Dubcovsky, J.** 2013. Not all Phytochromes are born equal. USDA-Project Directors meeting. May 22, 2013, Washington DC.

83. **Dubcovsky, J.** 2013. Beyond natural diversity in wheat: generation of new diversity by TILLING. Society of Experimental Botany. **Keynote speaker**. July 4th, 2013, Valencia, Spain.

84. **Dubcovsky, J.** 2013. Flowering regulation in the temperate cereals: integrating, sending and decoding environmental signals. Invited speaker at the Max Planck Institute. July 10th 2013, Cologne, Germany.

85. **Dubcovsky, J.** 2013. Functional genomic tools to understand wheat development. **Keynote speaker.** 12th International Wheat Genetics Symposium, Okayama Japan, September 8-13, 2013.

86. **Dubcovsky, J.** 2013. Functional genomic tools for wheat. 'Beyond the Genome' conference, San Francisco, CA, October 1st to 3rd, 2013.

87. **Dubcovsky, J.** 2014. Identifying valuable gene variants for wheat improvement. Wolf Awards Conference, May 29, 2014, Jerusalem, Israel.

88. **Dubcovsky, J.** 2014. Perceiving, integrating, sending and deciphering environment signals without a nervous system. University of Tel Aviv, June 2, 2014, Tel Aviv, Israel.

89. **Dubcovsky, J.** 2014. Integrating temperature and light signals in the regulation of wheat reproductive development. University of Haifa, June 2, 2014, Haifa, Israel.

90. **Dubcovsky, J.** 2014. Novel Reverse Genetic Resources to Dissect Complex Pathways in Wheat. ASA, CSSA, and SSSA Conference, Nov. 2-5, 2014, Long Beach, CA. **Keynote speaker** at the Ron Phillips Plant Genetics Lectureship.

91. **Dubcovsky, J.,** 2014. Improving California Wheat for Grain and Forage. Alfalfa & Grains Symposium, Long Beach, CA December 10-12.

92. **Dubcovsky, J.** 2015. *Yr36* confers partial resistance to wheat stripe rust by a novel mechanism. "Plant Interactions with Pests and Pathogens Workshop", Plant and Animal Genome XXIII, January 10-14, San Diego.

93. **Dubcovsky, J.** 2015. Exome sequencing of wheat mutant populations opens a new era for wheat functional genetics. "IWGSC workshop" Plant and Animal Genome XXIII, January 10-14, San Diego.

94. **Dubcovsky, J**. 2015. Dissection of the flowering pathway in wheat. Invited talk Pullman, WA, April 15th 2015.

95. **Dubcovsky, J**. 2015. Generating new diversity in durum wheat. Expert Working Group in Durum Wheat. Wheat Initiative. Bologna Italy, May 30 2015.

96. **Dubcovsky, J**. 2015. Platforms for durum wheat genomics. From Seed to Pasta & Beyond. Bologna Italy, May 31st to June 2nd 2015.

97. **Dubcovsky J.** 2015. Exome sequencing of tetraploid and hexaploid wheat mutant populations reveals millions of novel mutations. Workshop: "The science behind feeding the world healthily". Verona, Italy June 5-6, 2015.

98. **Dubcovsky J.** 2015. Update on National Research Initiatives, New Technologies and Priorities. US Wheat Meeting in San Diego, CA, July 14-15, 2015.

99. **Dubcovsky J.** 2015. Exome sequencing of wheat mutant populations reveals millions of novel mutations. Fudan University, Shanghai, August 14, 2015.

100. **Dubcovsky J.** 2015. Novel variation in sequenced TILLING populations. Shandong, Agricultural University, August 17, 2015

101. **Dubcovsky J.** 2015. Maximizing the use of natural and induced variation for wheat breeding. China Wheat Genomics and Breeding (CWGB), Yangling, Shaanxi, China, August 19, 2015.

102. **Dubcovsky J.** 2015. Exome sequencing of wheat mutant populations reveals millions of novel mutations. Plant Genome China (PGC XVI), Yangling, Shaanxi, China, August 20, 2015

103. **Dubcovsky J.** 2015. Old and novel variation in wheat improvement. Punjab Agricultural University, Ludhiana, India, August 28, 2015.

104. **Dubcovsky J.** 2016. Unravelling hidden variation in the young polyploid wheat genomes. Plant and Animal Genome XXIV, January 9-13, San Diego. **Plenary lecture**

105. **Dubcovsky J.** 2016. A collection of 10 million sequenced mutations provides new tools to dissect the photoperiod and vernalization pathways in wheat. Developing Crops of the Future Workshop April 19-21, Kiama, Australia.

106. **Dubcovsky J.** 2016. Molecular mechanisms involved in *WKS1*-mediated partial resistance to wheat stripe rust. April 22, CSIRO, Canberra, Australia.

107. **Dubcovsky J.** 2016. Exon capture sequencing of tetraploid and hexaploid wheat TILLING populations generates millions of novel mutations. June 28, REDBIO Plant Biotechnology Genomics and Post-genomic approaches, June 27-July 1st, Lima Perú

108. **Dubcovsky J.** 2016. Sequencing 10 million mutations in wheat and their utilization in breeding and research. July 6, INTA Castelar, Argentina.

109. **Dubcovsky J.** 2017. Sequenced TILLING populations and their applications in breeding and research. 17th Annual Le Tourneau Memorial Lectureship. April 13, 2017, University of Idaho.

110. **Dubcovsky J.** 2017. Using sequenced mutant populations to dissecting the wheat flowering pathway. Invited lecture, IPK – Gatersleben, Germany, April 20, 2017.

110. **Dubcovsky J.** 2017. Dissecting the wheat flowering pathway using sequenced mutant populations. 13th Int. Wheat Genetics Symposium. Keynote presentation. 23-28 April 2017, Tulln, Austria.

111. **Dubcovsky J.** 2017. New insights on the regulation of wheat flowering time from sequenced mutant populations. Academia Sinica. October 30, 2017, Taipei. Taiwan

112. **Dubcovsky J.** 2017. 10 million sequenced mutation in the coding regions of the wheat genome and their applications in breeding and research. Academia Sinica. October 31, 2017, Tainan. Taiwan

113. **Dubcovsky J.** 2017. A microRNA172 binding site mutation in AP2 played a crucial role in wheat domestication. Howard Hughes Medical Institute. Washington DC, November 8, 2017.

114. **Dubcovsky J.** 2017. Improving wheat nutritional value. Howard Hughes Medical Institute. Washington DC, November 9, 2017.

115. **Dubcovsky J.** 2018. *Sr21* and *Sr13* NLR Genes Confer High-Temperature Resistance to Wheat Stem Rust Race Ug99. Triticeae Genetics and Genomics, Session 2: Trait genetics and gene identification Workshop. Plant and Animal Genome XXVI, San Diego, Jan. 13-17.

116. **Dubcovsky J.** 2018. Wheat CAP, identifying genes for grain yield. WheatCAP Workshop. Plant and Animal Genome XXVI, San Diego, Jan. 13-17.

117. **Dubcovsky J.** 2018. Using sequenced mutant populations to improve wheat. Invited talk at Rutgers, NJ USA. February 16, 2018.

118. **Dubcovsky J.** 2018. Insights on the regulation of wheat flowering time from sequenced mutant populations. Invited seminar at the University of Buenos Aires, Faculty of Agronomy, May 9, Buenos Aires, Argentina.

119. **Dubcovsky J.** 2018. Using sequenced mutant populations to improve wheat. Invited speaker at wheat conference in Argentina "A Todo Trigo", Mar del Planta May10, 2018.

120. **Dubcovsky J.** 2018. Using sequenced mutant populations to improve wheat. Invited seminar at the Earlham Institute, UK. June 14, 2018

121. **Dubcovsky J.** 2019. Status of the WheatCAP. USDA/IWYP Workshop, Ciudad Obregon, Mexico, April 2, 2019.

122. **Dubcovsky J.** 2019. Using a sequenced mutant population to dissect wheat spike development. Invited speaker for the Anton Lang Memorial Lecture. Michigan State University, April 22.

123. **Dubcovsky J.** 2019. Understanding wheat spike development to improve grain yield potential. Invited speaker at the 1st International Wheat Congress, July 21-26, 2019, Saskatoon, Saskatchewan, Canada.

124. **Dubcovsky J.** 2019. New wheat genomic and transformation tools accelerate our understanding of wheat spike development. Plant Gene Expression Center and USDA-Western Regional Research Center, September 11, 2019.

125. **Dubcovsky J.** 2020. Efficient transformation technologies and sequenced mutant populations to empower gene functional studies in crops. 8th Plant Genomics & Gene Editing Congress. Rotterdam, Netherland, March, 4-5, 2020

126. **Dubcovsky J.** 2020. Sequenced mutant populations and new efficient transformation technologies to empower gene functional studies in durum wheat. Speaker at the 1st Virtual Durum Meeting of the Expert working group on Durum Wheat genomics and breeding, Bologna, Italy, July 27 and 28.

127. **Dubcovsky J.** 2020. Transgenic and non-transgenic reverse genetic tools for wheat functional genetic studies and applications. Invited Seminar at CORTEVA AGRISCIENCE. Department of Crop Genome Engineering. USA, virtual, August 3, 2020.

128. **Dubcovsky J.** 2020. New tools to establish gene function and improve gene editing. Invited speaker, National Seminar series. Instituto Nacional de Tecnología Agropecuaria (INTA). Argentina, virtual, August 10, 2020.

129. **Dubcovsky J.** 2020. Genomic tools to improve wheat nutritional value. Growers Wheat Congress AAPRESID 2020. Argentina, virtual, August 24 2020

130. **Dubcovsky J.** 2021. Genomic tools in wheat breeding. Congreso Nacional de Trigo, Argentina, Tres Arroyos, 9/28/2021 to 10/1/2021.

131. **Dubcovsky J**. 2022. "New reverse genetic technologies and their application to study wheat spike development". Talk organized by the International Atomic Energy Agency, the Institute of Crop Sciences, Chinese Academy of Agricultural Sciences, Crop Science Society of China. Beijing March 24, 2022. 12,000 audience in the live stream platform

132. **Dubcovsky J**. 2022. Recruitment of circadian clock genes for the wheat photoperiodic response. American Society of Plant Biology 2022 (PB22). Portland, Oregon July 9-13.

133. **Dubcovsky J**. 2022. Reverse genetic tools and their utilization to dissect grain yield components in wheat, Invited keynote speaker. Annual meeting of the Italian Agricultural Genetics Society. Piacenza, Italy, September 6-9.

133. **Dubcovsky J**. 2022. Photoperiodic regulation of wheat heading time, Invited seminar at the University of Agronomy, IFEVA, Buenos Aires, Argentina, October 19.

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.
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