CURRICULUM VITAE

José Luis Riechmann

January 2024

ICREA Research Professor

Centre for Research in Agricultural Genomics (CRAG) CSIC-IRTA-UAB-UB

Edifici CRAG
Campus de la Universitat Autònoma de Barcelona
Bellaterra, Cerdanyola del Vallès
08193 Barcelona, SPAIN

Telephone: (34) 935636600 ext 3208
E-mail: joseluis.riechmann@cragenomica.es

http://www.cragenomica.es/
http://www.icrea.cat/Web/ScientificStaff/Jose-Luis-Riechmann-Fernandez-444

ORCID iD: 0000-0003-1108-1945 (https://orcid.org/0000-0003-1108-1945)
SCOPUS Author ID: 6701855722
WoS Researcher ID: M-7005-2018

Advanced Research Accreditation / Acreditació de Recerca Avançada: awarded by the "Agència per a la Qualitat del Sistema Universitari de Catalunya (AQU)", Generalitat de Catalunya, on March 11, 2011 (Num. d'expedient: U1446/11535064-114).

Dr. Riechmann was appointed ICREA Research Professor and joined CRAG at the end of 2007, subsequent to 15 years of scientific career in the USA in both Academia and Industry. Director of CRAG between 2/2013 and 2/2022. Scientific Director of the first "Severo Ochoa Center of Excellence" award to CRAG (2016-2019). His career has spanned the fields of plant virology, plant developmental biology and transcriptional regulation, and structural and functional genomics, and has resulted in 54 peer-reviewed articles; 14 book chapters and books; and 32 USA/international patents.

PhD. Centro de Biología Molecular (CBM)-CSIC, Madrid (1989-1992). Molecular biology of Plum Pox virus (PPV); development of molecular tools to study PPV (infectious cDNA genomic clone), and studies on PPV translation, processing, and genomic sequence.

Postdoctoral. California Institute of Technology (Caltech), Pasadena, CA (1993-1998). Laboratory of Dr. E. Meyerowitz. Studies on the protein-protein and protein-DNA interactions and on the functional specificity of the MADS-domain floral organ identity factors to translate the ABC genetic model of flower development into molecular mechanisms.

Senior Scientist. Mendel Biotechnology Inc., Hayward, CA (1998-2002). Joined the plant functional genomics company when a start-up. Implemented a comprehensive analysis of the Arabidopsis genome to identify its full complement of transcription factors, including a comparative analysis of TFs across the eukaryotic kingdom (*Science* (2000); >2,000 citations to date). Directed specific projects focused on particular genes, *i.e.*, the roles of the *MAF* genes in flowering time control, or the identification of *WIN1*, a transcriptional regulator that controls the composition of the plant cuticle, among others.

Director. Millard and Muriel Jacobs Genetics and Genomics Laboratory, Caltech, Pasadena, CA (2002-2008). Studied floral development through the application of genome-wide gene expression analyses; next-gen sequencing. Co-development of the real-time DNA microarray technology.
ICREA Research Professor. ICREA & CRAG, Barcelona (2008-present). Current research area encompasses plant developmental biology, transcriptional regulation, genomics, and proteomics, and is focused on the genome-wide characterization of gene regulatory networks in plant and flower development and on the plant peptidome.
CRAG Director. CRAG, Barcelona (2013-2022). Promoted CRAG as an international Center of Excellence in Plant Sciences, obtaining the 'Severo Ochoa Center of Excellence' award (2016-2019, and 2020-2023) and the HRS4R European accreditation. Formalized institutional alliances with other European Centers of Excellence. Obtained competitive funds for CRAG scientific infrastructures and for postdoctoral and PhD personnel. Recruitment of Junior Group Leaders. Management of CRAG administration.

APPOINTMENTS

2008 – present	ICREA Research Professor at Centre for Research in Agricultural Genomics (CRAG)
2013 – 2022	Director, Centre for Research in Agricultural Genomics (CRAG)
2008 – 2012	Visiting Associate, California Institute of Technology.
2004 – 2008	Research Faculty (Senior Research Associate), California Institute of Technology.
2002 – 2008	Director, Millard and Muriel Jacobs Genetics and Genomics Laboratory, California Institute of Technology.
1999 – 2002	Visitor in Biology, California Institute of Technology.
1998 – 2002	Senior Scientist / Team Leader, Mendel Biotechnology, Inc.

EDUCATION

Postdoctoral: 1/1993-3/1998. California Institute of Technology. Advisor: Dr. Elliot Meyerowitz. Molecular biology of flower development in *Arabidopsis thaliana*.
5/1991-12/1992. Centro de Biología Molecular-Universidad Autónoma de Madrid (Spain). Advisor: Dr. Juan A. García. Molecular biology of Plum Pox Potyvirus.

PhD: 1/1988-4/1991 (Date of Thesis defense: April 29, 1991). Centro de Biología Molecular-Universidad Autónoma de Madrid (Spain). PhD in Sciences (Molecular Biology and Biochemistry) with highest honors *summa cum laude*. Thesis: "*Infectious in Vitro Transcripts from a Plum Pox Potyvirus cDNA Clone: Its Application to PPV Molecular Biology Studies*". Advisor: Dr. Juan A. García.

Graduate: 9/1982-6/1987. Biology (Molecular Biology and Biochemistry). Universidad Autónoma de Madrid (Spain).

HONORS and FELLOWSHIPS

Narcís Monturiol Medal 2018. *This award, instituted by the Generalitat in 1982, is to distinguish the people and entities that have contributed significantly to the development of science and technology in Catalonia.*

Member of the Academia Europaea (since 2013). *Election to the Academia Europaea is a personal honour that is a distinct recognition by international peers of personal excellence in scholarship within the European convocation of learned and professional scholars). http://ae-info.org/*

1995-96 Plan de Formación de Personal Investigador Postdoctoral fellowship, MEC, Spain.

1993-94 EMBO Long Term Postdoctoral Fellowship.
1991-92 Consejo Superior de Investigaciones Científicas postdoctoral fellowship, Spain.
1988-91 Plan de Formación de Personal Investigador, doctoral fellowship, MEC, Spain.
1986-87 Universidad Autónoma de Madrid undergraduate fellowship, Spain.

1st Doctorate Special Award (Biology) -1992. Universidad Autónoma de Madrid, Spain.

Award for outstanding PhD Thesis -1992. Caja de Madrid, Spain.

RESEARCH EXPERIENCE

2008 – present. ICREA Research Professor. Centre for Research in Agricultural Genomics. *Arabidopsis* flower development: gene regulatory networks.

2016 – 2020. Scientific Director. "Severo Ochoa Center of Excellence" award to CRAG.

6/2002 – 2008. Director, Millard and Muriel Jacobs Genetics and Genomics Laboratory, Caltech. Genome-wide analyses of gene expression, gene expression in *Arabidopsis* flower development, microRNAs in *Arabidopsis*, microarray technology.

10/1999 – 6/2002. Visitor in Biology in Dr. Elliot Meyerowitz's laboratory, California Institute of Technology. DNA microarrays to study *Arabidopsis* flower development.

6/1998 – 6/2002. Senior Scientist at Mendel Biotechnology, Inc. *Arabidopsis* functional genomics, transcription factors.

1993 – 3/1998. Postdoctoral research in Dr. Elliot Meyerowitz's laboratory, California Institute of Technology. Molecular biology and genetics of *Arabidopsis* flower development.

1988 – 1992. Graduate and postdoctoral research with Dr. Juan A. García, Centro de Biología Molecular. Molecular biology of Plum Pox Virus.

MANAGEMENT EXPERIENCE

Director, Centre for Research in Agricultural Genomics (2013 - 2022)

Department Co-Chair. Center for Research in Agricultural Genomics - Department of Molecular Genetics (Jan 2009 - June 2011).

Director, Millard and Muriel Jacobs Genetics and Genomics Laboratory, Caltech (2002 - 2008).

Senior Scientist, Mendel Biotechnology (1998-2002).

PROFESSIONAL AND SYNERGISTIC ACTIVITIES

Board of Directors. Plants for the Future European Technology Platform (Plant ETP) (since 2022)

Plants for the Future European Technology Platform (Plant ETP). Member of the Working Group "Sustainable Agriculture" (since 2019). Deputy vice-chair of the Working Group (since 2022).

Editorial Board: Scientific Reports (Nature Publishing Group) (editor in the Plant Biology area), http://www.nature.com/srep/about/index.html (since 2011).

Contributing Faculty Member in FACULTY OF 1000 BIOLOGY, Plant Genetics and Gene Expression section (2003-2016). **Advisory Board:** F1000 Research (F1000 group) (Plant Biology - Plant Genetics and Gene Expression section), https://f1000research.com/advisors (since 2012).

Board of Directors: Bioinformatics Barcelona (BIB) (2016-2022)

Scientific Advisory Board Member, Institute for Integrative Genome Biology, University of California at Riverside (2007-2008).

Instructor on a NSF-funded training workshop for science high school teachers: "The ABCs of Developmental Botany; Integrating Plants into the High School Classroom", Huntington Library and Botanical Gardens, Pasadena (August 23-27, 2004; July 11-15, 2005; July 17-21, 2006; July 9-20, 2007; July 21-August 1, 2008; July13-17, 2009). The workshop was part of a 5-year **educational outreach initiative** program administered through the National Science Foundation. The course was geared to high school level biology teachers who were looking to enrich their classroom with inquiry-based lessons using plants.

Instructor on the "Biotechnology Summer School", a 2-week summer course for students of biotechnology, plant biology, and related disciplines, by the CRAG and the UAB International Summer School. July 9-20, 2012.

Proposal Review Panel Memberships:
- Served on the National Science Foundation (USA) Division of Integrative Organismal Systems Proposal Review Panel for Plant and Microbial Developmental Systems, Developmental Systems Cluster, Spring 2007.
- Served on the Proposal Review Panel of the Ministerio de Ciencia e Innovación (Spain) – BIO2009 (Biotechnology).
- Served on the Review Panel of the Agencia Nacional de Evaluación y Prospectiva (ANEP) (Spain) – Ramón y Cajal Program 2013 and 2014 (Biología Fundamental y de Sistemas).
- Served on the Review Panel of the Agencia Estatal de Investigación, "Explora 2017" Program.
- Served on the Science Foundation Ireland "Research Infrastructure Program" review panel (2018).
- Served on the EC Research Executive Agency evaluation panel of the "Teaming 2" flagship of the H2020 Widening programme (2018- 2019).

Referee (agencies): National Science Foundation (NSF; 2001-2014), Netherlands Organization for Scientific Research (NWO; 2001-2003), US Department of Agriculture (USDA; 1999, 2000, 2003-2006), ANEP (Spain) (2009-2017), AEI (Spain) (2022, 2023), French National Research Agency (ANR; 2010, 2013, 2022) Deutschen Forschungsgemeinschaft (DFG; 2013), German Federal Ministry of Education and Research (BMBF; 2017).

Referee (journals): BBA, BMC Bioinformatics, BMC Genomics, BioScience, Cell, Development, DNA Research, EMBO Journal, FEBS J., Gene, Genes & Development, Genome Biology, Genome Research, J. Biol. Chem., J. Exp. Bot., J. Mol. Evol., Maydica, Molecular Plant, Molecular Plant Pathology, Nature Biotechnology, Nature Communications, Nature Plants, New Phytologist, Nucleic Acids Research, Phys. Plantarum, The Plant Cell, Plant Cell Reports, Plant Journal, Plant Molecular Biology, Plant Physiology, Planta, Plants, PLOS Computational Biology, Proc. Natl. Acad. Sci. USA, Science, Trends in Genetics, Trends in Plant Science.

Editorial Board: Applied Genomics and Proteomics (2002-2004).

Meeting Organizer:

- Symposium on Plant Development - In celebration of Elliot Meyerowitz' 60th birthday. Caltech, Pasadena (May 23, 2011).
- Symposium on " Flower development - Reproductive Organ Development II", as part of the 10th International Congress on Plant Molecular Biology (IPMB), Jeju, Korea (Oct 21-26, 2012).
- "ICREA Workshop: From model systems to crops, challenges for a new era in plant biology". José Luis Riechmann (coordinator, CRAG), Jaume Martínez-García (CRAG), Paloma Mas (CRAG), Soraya Pelaz (CRAG), and Ove Nilsson (UPSC). Barcelona (May 7-8, 2014).
- INUPRAG (INRA-UPSC-CRAG) Trilateral symposium on "Plant Integrative Biology". José Luis Riechmann (coordinator, CRAG), Catherine Bellini (INRA-UPSC), Carole Caranta (INRA), Francis Martin (INRA), Ove Nilsson (UPSC). Barcelona (June 4-6, 2018).
- CRAG Symposium "At the Forefront of Plant Research". José Luis Riechmann (coordinator, CRAG), Jordi Garcia-Mas (CRAG), Albert Ferrer (CRAG), Teresa Altabella (CRAG), Ignacio Rubio-Somoza (CRAG), Alex Clop (CRAG). Barcelona (May 6-8, 2019).
- CRAG Symposium "At the Forefront of Plant Research". José Luis Riechmann (CRAG), Ignacio Rubio-Somoza (CRAG), Soraya Pelaz (CRAG), Josep Casacuberta (CRAG). Barcelona (May 8-10, 2023).

RESEARCH AWARDS AND GRANTS

Ministerio de Ciencia e Innovación, Plan Estatal de Investigación Científica, Técnica y de Innovación, grant PID2022-139578NB-I00. “Charting the plant peptidome: a new layer on plant regulatory mechanisms (CHARPP)”. José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2023 - 2026.

CRAG, grant M2C&C2M-M2C-05. “Charting the plant peptidome: from Arabidopsis to pea”. José Luis Riechmann (CRAG) & Laura Botigué (CRAG) (PIs). 2023-2024.

Agencia de Gestió d’Ajuts Universitaris I de Recerca (AGAUR), program Suport als Grups de Recerca de Catalunya (SGR-2021), grant 2021 SGR 00792. “Arabidopsis Developmental Genomics”. José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (Participant). 2022-2024.

Agencia de Gestió d’Ajuts Universitaris I de Recerca (AGAUR), program Suport als Grups de Recerca de Catalunya (SGR-2017), grant 2017 SGR 718. “Arabidopsis Developmental Genomics”. José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2017-2021.

Two Blades Foundation / University of North Carolina at Chapel Hill. Sub-award Number 5106880. "Multi-scale Genomic Interrogation of the Angiosperm Immune Receptor Repertoire". Jeff Dangl (UNC) (PI). José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (sub-award PI). 2017-2018.

Ministerio de Economía y Competitividad, Plan Nacional de I+D+I, grant BFU2014-58289-P. “Genomic, proteomic and genetic analyses of the Arabidopsis flower development gene regulatory network”. José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2015-2019.

Agencia de Gestió d’Ajuts Universitaris I de Recerca (AGAUR), program Suport als Grups de Recerca de Catalunya (SGR-2014), grant 2014 SGR 1406. “Arabidopsis Developmental Genomics”. José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2014-2016.

Ministerio de Ciencia e Innovación, Plan Nacional de I+D+I, grant BFU2011-22734/BMC. “Genomic and genetic analyses of the Arabidopsis flower development gene regulatory network”. José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2012-2015.

Agencia de Gestió d'Ajuts Universitaris I de Recerca (AGAUR), program Suport als Grups de Recerca de Catalunya (SGR-2009), grant 2009 SGR 476. "Arabidopsis Developmental Genomics". José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2009-2013.

Ministerio de Ciencia e Innovación, Plan Nacional de I+D+I, grant BFU2008-04251/BMC. "Genomic analyses of the regulatory network of flower development in Arabidopsis". José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2009-2011.

Marie Curie International Reintegration Grant (European Commission, FP7-PEOPLE-2007-4-3-IRG), grant IRG224864-GEANARAFDEV. "Genomic Analyses of Arabidopsis Flower Development: sORFs, miRNAs, and transcription factor-coding genes". José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2008-2012

National Science Foundation (NSF) grant MCB-0520193 (2010 Project). "2010 Arabidopsis: Genomic Analyses of Arabidopsis miRNAs: Their Roles in Flower Development." José Luis Riechmann (Caltech) (PI), Elliot M. Meyerowitz (Caltech) (Co-PI). 2005-2009

Environmental Protection Agency (EPA) STAR grant RD832525. "Cellular uptake and toxicity of dendritic nanomaterials: an integrated physicochemical and toxicogenomics study". Mamadou Diallo (Caltech) (PI), William A. Goddard (Caltech) (Co-PI), José Luis Riechmann (Caltech) (Co-PI). 2005-2008.

PERSONNEL GRANTS

European Commission, Marie Skłodowska-Curie Actions - Individual Fellowships Program, grant H2020-MSCA-IF-2020-GA101028809. "Metabolites Inducers of Cross-tolerance to Biotic Stress — MICROBIS". Researcher: Antoni Garcia-Molina. Director: José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-). 2021-2023.

Ministerio de Ciencia, Innovación y Universidades, Agencia Estatal de Investigación, Plan Estatal de I+D+I, "Programa Estatal de Promoción del Talento y su Empleabilidad - ayudas para contratos predoctorales para la formación de doctores" (FPI program), grant PRE2018-084278. PhD Fellowship. "The hidden nature of the Arabidopsis peptidome: Analyses of the Arabidopsis flower development gene regulatory network". Researcher: Raquel Alvarez. Director: José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-). 2019-2023.

Ministerio de Economía y Competitividad, Plan Estatal de I+D+I, "Programa Estatal de Promoción del Talento y su Empleabilidad - ayudas para contratos predoctorales para la formación de doctores" (FPI program), grant BES-2015-074691. PhD Fellowship. "Genomic, proteomic and genetic analyses of the Arabidopsis flower development gene regulatory network". Researcher: Laura Ossorio. Director: José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-). 2015-2019.

Ministerio de Ciencia e Innovación, Plan Nacional de I+D+I, FPI program, grant BES-2012-053274. PhD Fellowship. "Genomic and genetic analyses of the Arabidopsis flower development gene regulatory network". Researcher: Mariana Bustamante. Director: José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-). 2012-2016.

European Molecular Biology Organization. Fellowship Programme. Grant EMBO ALTF 406-2010. EMBO Long Term Postdoctoral Fellowship. "Genomic analyses of the regulatory network of flower development in Arabidopsis". Researcher: Tomás Matus. Director: José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-). 2010-2012.

European Molecular Biology Organization. Fellowship Programme. Grant EMBO ALTF 305-2010. EMBO Long Term Postdoctoral Fellowship. “Genomic analyses of the regulatory network of flower development in Arabidopsis”. Researcher: Jian Jin. Director: José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-). 2010-2012.

Center for Research in Agricultural Genomics -CRAG-. Postdoctoral Fellowship Programme. Grant. CRAG Long Term Postdoctoral Fellowship. Grant R/08-1. "Genomic analyses of the regulatory network of flower development in Arabidopsis: sORFs and transcription factor-coding genes" Researcher: Thilia Ferrier. Director: José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-). 2008-2011.

INSTITUTIONAL AWARDS AND GRANTS

European Commission, Research Executive Agency, HORIZON-MSCA-2021-COFUND Program. Grant Agreement number: 101081581. ‘Reconstruction Biology in Plant Sciences Doctoral Training Program — rePLANT’. Joint CRAG-JIC-MPIPZ program. (PI & Coordinator). 2023-2028.

Ministerio de Ciencia e Innovación, Fundación Española para la Ciencia y la Tecnología, Ayudas para el fomento de la cultura científica, tecnológica y de la innovación 2021, grant FCT-21-16698. “Plan de Comunicación y Divulgación de la UCC+i del CRAG”. Zoila Babot (PI), José Luis Riechmann (Participant & CRAG Director) (Centre for Research in Agricultural Genomics -CRAG-). 2022-2023.

Ministerio de Ciencia e Innovación, Agencia Estatal de Investigación, Subprograma Estatal de Infraestructuras de Investigación y Equipamiento Científico-Técnico del Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020, grant EQC2021-007316-P. "Precisión y reprogramación en el crecimiento de las plantas: nueva plataforma para cámaras con condiciones ambientales extremas". José Luis Riechmann (PI) (Centre for Research in Agricultural Genomics -CRAG-). 2021-2023.

Ministerio de Ciencia e Innovación, Agencia Estatal de Investigación, Subprograma Estatal de Infraestructuras de Investigación y Equipamiento Científico-Técnico del Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020, grant EQC2021-007405-P. " Microscopía de súper-resolución en plantas: desde moléculas individuales hasta procesos celulares dinámicos". Paloma Mas (PI), José Luis Riechmann (Participant & CRAG Director) (Centre for Research in Agricultural Genomics -CRAG-). 2021-2023.

Ministerio de Ciencia, Agencia Estatal de Investigación, Programa Estatal de Generación de Conocimiento y Fortalecimiento Científico y Tecnológico del Sistema de I+D+i del Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020, Subprograma Estatal de Fortalecimiento Institucional, grant CEX2019-000902-S “Severo Ochoa Center of Excelence Award” Centre for Research in Agricultural Genomics -CRAG- (Paloma Mas, Scientific Director; José Luis Riechmann, CRAG Director). 2020-2023.

European Commission, Research Executive Agency, H2020 MSCA COFUND 2019 Program. Grant Agreement number: 945043. ‘Agricultural Genomics Transversal Postdoctoral Program — AGenT’ (PI & Coordinator). 2021-2026.

Ministerio de Ciencia, Innovación y Universidades Plan Estatal de Investigación Científica y Técnica y de Innovación, Programa Estatal de “Fomento de la Investigación Científica y Técnica de Excelencia”, Subprograma Estatal de "Infraestructuras Científicas y Técnicas y de Equipamiento Científico-Técnico", grant EQC2018-003982-P. “Infraestructura de crecimiento de plantas en el CRAG”. José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2018-2020.

Ministerio de Economía y Competitividad, Plan Estatal de Investigación Científica y Técnica y de Innovación,

Programa Estatal de “Fomento de la Investigación Científica y Técnica de Excelencia”, Subprograma Estatal de "Infraestructuras Científicas y Técnicas y de Equipamiento Científico-Técnico", grant CSIR15-EE-3594. “Infraestructura de crecimiento de plantas en el CRAG - Parte 2”. José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2016-2017.

Ministerio de Economía y Competitividad, Plan Estatal de Investigación Científica y Técnica y de Innovación, Programa Estatal de “Fomento de la Investigación Científica y Técnica de Excelencia”, Subprograma Estatal de "Infraestructuras Científicas y Técnicas y de Equipamiento Científico-Técnico", grant CSIR15-EE-2877. “Infraestructura de crecimiento de plantas en el CRAG - Parte 1”. José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2016-2017.

Ministerio de Economía y Competitividad, Plan Nacional de I+D+I, Programa Estatal de “Fomento de la Investigación Científica y Técnica de Excelencia”, grant SEV-2015-0533. “Severo Ochoa Center of Excelence Award”. José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (Scientific Director; CRAG Director). € 4,000,000. 2016-2020.

Ministerio de Economía y Competitividad, Plan Nacional de I+D+I, Programa "Europa Redes y Gestores", grant EUC2013-50747. “Acción de dinamización de la participación del CRAG en proyectos internacionales”. José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2014-2017.

ICREA Conference Award 2013 to organize a workshop entitled "ICREA Workshop: From model systems to crops, challenges for a new era in plant biology". José Luis Riechmann (coordinator) (Centre for Research in Agricultural Genomics -CRAG-). 2013.

Agencia de Gestió d’Ajuts Universitaris I de Recerca (AGAUR), program "Ajuts per a l'organització de congressos, simposis, cicles de conferències i seminaris d'especial rellevància científica, social, humanística i tecnològica que s'organitzin a Catalunya (ARCS-DGR 2011)", grant 2011 ARCS100239. "CRAG Inaugural Lectures". José Luis Riechmann (Centre for Research in Agricultural Genomics -CRAG-) (PI). 2011-2012

Equipment grant from Sun Microsystems Inc. (Academic Equipment Grant Program), for the “Gene Expression Center” project. Donation: SunFire V880 server. Caltech. 2003.

PhD THESES DIRECTED

Mariana Bustamante. "Genomic Analyses of the CUP-SHAPED COTYLEDON1 Network". Facultat de Biociències, Universitat Autònoma de Barcelona. December 4th, 2017.

Raquel Álvarez-Urdiola. “Proteomic and peptidomic analyses of flower development in Arabidpsis”. Facultat de Biociències, Universitat Autònoma de Barcelona. December 14, 2023. Grade: Excellent “*cum laude*”, with International Doctoral Research Component (Mención de Doctorado Internacional).

PUBLICATIONS: articles

*: Corresponding author

h-index: 40 (Web of Science; January 2024)
Total number of citations: 10,075 (WoS; January 2024)
Average citations per article: 177 (WoS; January 2024)
Citing articles: 8,044 (WoS; January 2024)
Times cited by patents: 223 (WoS; October 2023)

Citing patents: 168 (WoS; October 2023)

55.- Riechmann, J.L.* (2023) A new negative link in flower development: Repression of ABC genes by Z factors—ZP1/ZFP8. *Proc. Natl. Acad. Sci. USA* 120 (27), e2307429120.

54.- Osnato, M., Cereijo, U., Sala, J., Matias-Hernandez, L., Aguilar-Jaramillo, A., Rodríguez-Goberna, R., Riechmann, J. L., Rodriguez-Concepcion, M., Pelaz, S* (2021). The floral repressors TEMPRANILLO1 and 2 modulate salt tolerance by regulating hormonal components and photo-protection in Arabidopsis. *Plant J* 105 (1), 7-21.

53.- Fàbregas, N., Lozano-Elena, F., Blasco-Escámez, D., Tohge, T., Martínez-Andújar, C., Albacete, A., Osorio, S., Bustamante, M., Riechmann, J. L., Nomura, T., Yokota, T., Conesa, A., Pérez-Alfocea, F., Fernie, A. R., and Caño-Delgado, A.I.* (2018) Overexpression of the vascular brassinosteroid receptor BRL3 confers drought resistance without penalizing plant growth. *Nature Communications* 9: 4680

52.- Bustamante, M., Matus, T. and Riechmann, J.L.* (2016) Genome-wide analyses for dissecting gene regulatory networks in the shoot apical meristem. *Journal of Experimental Botany* 67 (6), 1639-1648.

51.- Baldrich, P., Kakar, K., Siré, C., Moreno, A.B., Berger, A., García-Chapa, M., López-Moya, J.J., Riechmann, J.L., and San Segundo, B.* (2014) Small RNA profiling reveals regulation of Arabidopsis miR168 and heterochromatic siRNA415 in response to fungal elicitors. *BMC Genomics* 15:1083.

50.- Pajoro, A., Madrigal, P., Muiño, J.M., Matus, J.T., Jin, J., Mecchia, M.A., Debernardi, J.M., Palatnik, J.F., Balazadeh, S., Arif, M., Ó'Maoiléidigh, D.S., Wellmer, F., Krajewski, P., Riechmann, J.L.*, Angenent, G.C., and Kaufmann, K.* (2014) Dynamics of chromatin accessibility and gene regulation by MADS-domain transcription factors in flower development. *Genome Biology* 15, R41. (Recommended in F1000).

49.- Wellmer, F.*, Graciet, E. and Riechmann, J.L.* (2014) Specification of floral organs in Arabidopsis. *Journal of Experimental Botany* 65 (1) 1-9.

48.- Huang, W., Pérez-García, P., Pokhilko, A., Millar, A.J., Antoshechkin, I., Riechmann, J.L. and Mas, P.* (2012) Mapping the Core of the Arabidopsis Circadian Clock Defines the Network Structure of the Oscillator. *Science* 336, 75-79. (Published on-line on *Science Express* on March 8, 2012) (Editors' Choice paper in *Science Signaling*: P. J. Hines, Tic TOC1 Plant Clock. Sci. Signal. 5, ec108 (2012). (Recommended in F1000).

47.- Ferrier, T., Matus, T., Jin, J. and Riechmann, J.L.* (2011) Arabidopsis paves the way: genomic and network analyses in crops. *Current Opinion in Biotechnology* 22, 260-270.

46.- Wellmer, F. and Riechmann, J.L.* (2010) Gene networks controlling the initiation of flower development. *Trends in Genetics* 26 (12), 519-527.

45.- Kaufmann, K., Wellmer, F., Muiño, J.M., Ferrier, T., Wuest, S.E., Kumar, V., Serrano-Mislata, A., Madueño, F., Krajewski, P., Meyerowitz, E.M., Angenent, G.C., and Riechmann, J.L.* (2010) Orchestration of floral initiation by APETALA1. *Science* 328, 85-89. (Recommended in F1000) (The data from this manuscript are showcased and used in a tutorial on "Next Generation Sequencing Analysis with Galaxy and IGV", from the Institute for Integrative Genome Biology, University of California at Riverside; http://manuals.bioinformatics.ucr.edu/home/gui-ngs-analysis).

44.- Hassibi, A., Vikalo, H., Riechmann, J.L., and Hassibi, B.* (2009). Real-time DNA microarray analysis. *Nucleic Acids Research* 37 (20), e132 (doi:10.1093/nar/gkp675).

43.- Jiao, Y.*, Riechmann, J.L., and Meyerowitz, E.M. (2008). Transcriptome-wide analysis of uncapped mRNAs in Arabidopsis. *Plant Cell* 20 (10), 2571-2585. (Recommended in F1000).

42.- Alves-Ferreira, M., Wellmer, F., Banhara, A.,' Kumar, V., Riechmann, J.L., and Meyerowitz, E.M.* (2007). Global expression profiling applied to the analysis of Arabidopsis stamen development. *Plant Physiology* 145 (3), 747-762.

41.- Kannangara, R., Branigan, C., Liu, Y., Penfield, T., Rao, V., Mouille, G., Höfte, H., Pauly, M., Riechmann, J.L., and Broun, P.* (2007). The transcription factor WIN1/SHN1 regulates cutin biosynthesis in *Arabidopsis thaliana*. *Plant Cell* 19 (3), 1278-1294.

40.- Sieber, P., Wellmer, F., Gheyselinck, J., Riechmann, J.L., and Meyerowitz, E.M.* (2007). Redundancy and specialization among plant microRNAs: Role of the *MIR164* family in developmental robustness. *Development* 134, 1051-1060. (Recommended in F1000).

39.- Wellmer, F., Alves-Ferreira, M., Dubois, A., Riechmann, J.L., and Meyerowitz, E.M.* (2006). Genome-wide analysis of gene expression during early Arabidopsis flower development. *PLoS Genetics* 2 (7), e117. (Recommended in F1000).

38.- Wellmer, F., and Riechmann, J.L.* (2005). Gene network analysis in plant development by genomic technologies. *Int. J. Dev. Biol.* 49, 745-759.

37.- Ito, T., Wellmer, F., Yu, H., Das, P., Ito, N., Alves-Ferreira, M., Riechmann, J.L., and Meyerowitz, E.M.* (2004). The homeotic protein AGAMOUS controls microsporogenesis by regulation of *SPOROCYTELESS*. *Nature* 430, 356-360. (Recommended in F1000).

36.- Wagner, D., Wellmer, F., Dilks, K., William, D., Smith, M.R., Kumar, P.P., Riechmann, J.L., Greenland, A.J., and Meyerowitz, E.M.* (2004). Floral induction in tissue culture: a system for the analysis of LEAFY-dependent gene regulation. *The Plant Journal* 39, 273-282.

35.- Wellmer, F., Riechmann, J.L., Alves-Ferreira, M., and Meyerowitz, E.M.* (2004). Genome-wide analysis of spatial gene expression in Arabidopsis flowers. *Plant Cell* 16 (5), 1314-1326. (Recommended in F1000).

34.- Broun, P.,* Pointdexter, P., Osborne, E., Jiang, C.-Z., and Riechmann, J.L. (2004). WIN1, a transcriptional activator of epidermal wax accumulation in Arabidopsis. *Proc. Natl. Acad. Sci. USA* 101 (13), 4706-4711.

33.- Ratcliffe, O.J.*, Kumimoto, R.W., Wong, B.J., and Riechmann, J.L. (2003). Analysis of the Arabidopsis *MADS AFFECTING FLOWERING* gene family: *MAF2* prevents vernalization by short periods of cold. *Plant Cell* 15 (5), 1159-1169.

32.- Haake, V., Cook, D., Riechmann, J.L., Pineda, O., Thomashow, M. F., and Zhang, J. Z.* (2002). Transcription factor CBF4 is a regulator of drought adaptation in Arabidopsis. *Plant Physiol.* 130, 639-648. (Recommended in F1000).

31.- Ratcliffe, O.J. and Riechmann, J.L.* (2002). Arabidopsis transcription factors and the regulation of flowering time: a genomic perspective. *Curr. Issues Mol. Biol.* 4, 77-91.

30.- Ratcliffe, O.J., Nadzan, G., Reuber, L., and Riechmann, J.L.* (2001). Regulation of Flowering in *Arabidopsis thaliana* by an *FLC* Homologue. *Plant Physiol.* 126, 122-132.

29.- Riechmann, J.L.,* Heard, J., Martin, G., Reuber, L., Jiang, C.-Z., Keddie, J., Adam, L., Pineda, O., Ratcliffe, O.J., Samaha, R.R., Creelman, R., Pilgrim, M., Broun, P., Zhang, J.Z., Ghandehari, D., Sherman, B.K., and Yu, G.-L. (2000). *Arabidopsis* transcription factors: genome-wide comparative analysis among eukaryotes. *Science* 290, 2105-2110.

28.- Chen, X.,* Riechmann, J.L., and Meyerowitz, E.M. (2000). Minimal regions in the *Arabidopsis PISTILLATA* promoter responsive to the *APETALA3/PISTILLATA* feedback control do not contain a CArG box. *Sex. Plant Reprod*. 13, 85-94.

27.- Riechmann, J.L.* and Ratcliffe, O.J. (2000). A genomic perspective on plant transcription factors. *Curr. Opin. Plant Biol.* 3, 423-434.

26.- Ratcliffe, O.J., Riechmann, J.L.,* and Zhang, J.Z.* (2000). *INTERFASCICULAR FIBERLESS 1* is the same gene as *REVOLUTA*. *Plant Cell* 12, 315-317.

25.- Saenz, P., Cervera, M.T., Dallot, S., Quiot, L., Quiot, J.-B., Riechmann, J.L., and García, J.A.* (2000). Identification of a pathogenicity determinant of Plum pox virus in the sequence encoding the C-terminal region of protein P3+6K1. *J. Gen. Virol.* 81, 557-566.

24.- Riechmann, J.L., Ito, T., and Meyerowitz, E.M.* (1999). Non-AUG initiation of *AGAMOUS* mRNA translation in *Arabidopsis thaliana*. *Mol. Cell. Biol*. 19, 8505-8512.

23.- Krizek, B.A.,* Riechmann, J.L., and Meyerowitz, E.M. (1999). Use of the *APETALA1* promoter to assay the in vivo function of chimeric MADS box genes. *Sex. Plant Reprod*. 12, 14-26.

22.- Riechmann, J.L. and Meyerowitz, E.M.* (1998). The AP2/EREBP family of plant transcription factors. *Biol. Chem.* 379, 633-646.

21.- Riechmann, J.L.* and Meyerowitz, E.M. (1997). MADS domain proteins in plant development. *Biol. Chem.* 378, 1079-1101.

20.- Riechmann, J.L. and Meyerowitz, E.M.* (1997). Determination of floral organ identity by *Arabidopsis* MADS domain homeotic proteins AP1, AP3, PI, and AG is independent of their DNA-binding specificity. *Mol. Biol. Cell*. 8, 1243-1259.

19.- Riechmann, J.L., Wang, M., and Meyerowitz, E.M.* (1996). DNA-binding properties of *Arabidopsis* MADS domain homeotic proteins APETALA1, APETALA3, PISTILLATA, and AGAMOUS. *Nucleic Acids Res.* 24, 3134-3141.

18.- Riechmann, J.L., Krizek, B.A., and Meyerowitz, E.M.* (1996). Dimerization specificity of *Arabidopsis* MADS domain homeotic proteins APETALA1, APETALA3, PISTILLATA, and AGAMOUS. *Proc. Natl. Acad. Sci. USA* 93, 4793-4798.

17.- Riechmann, J.L., Cervera, M.T., and García, J.A.* (1995). Processing of the plum pox virus polyprotein at the P3-6K1 junction is not required for virus viability. *J. Gen. Virol.* 76, 951-956.

16.- García, J.A.,* Cervera, M.T., Riechmann, J.L., and López-Otín, C. (1993). Inhibitory effects of human cystatin C on plum pox virus proteases. *Plant Mol. Biol.* 22, 697-701.

15.- Cervera, M.T.,* Riechmann, J.L., Martín, M.T., and García, J.A. (1993). 3´-Terminal sequence of the plum pox virus -PS and -o6 isolates: evidence for RNA recombination within the potyvirus group. *J. Gen. Virol.* 74, 329-334.

14.- García, J.A.,* Martín, M.T., Cervera, M.T., and Riechmann, J.L. (1992). Proteolytic processing of the plum pox potyvirus polyprotein by the NIa protease at a novel cleavage site. *Virology* 188, 697-703.

13.- Riechmann, J.L.,* Laín, S., and García, J.A. (1992). Highlights and prospects of potyvirus molecular biology. *J. Gen. Virol.* 73, 1-16.

12.- Riechmann, J.L.,* Laín, S., and García, J.A. (1991). Identification of the initiation codon of plum pox potyvirus genomic RNA. *Virology* 185, 544-552.

11.- Laín, S.,* Martín, M.T., Riechmann, J.L., and García, J.A. (1991). Novel catalytic activity associated with positive-strand RNA virus infection: Nucleic acid-stimulated ATPase activity of the plum pox potyvirus helicaselike protein. *J. Virol.* 65, 1-6.

10.- Laín, S.,* Riechmann, J.L., and García, J.A. (1990). RNA helicase: a novel activity associated with a protein encoded by a positive strand RNA virus. *Nucleic Acids Res.* 18, 7003-7006.

9.- García, J.A.,* Laín, S., Cervera, M.T., Riechmann, J.L., and Martín, M.T. (1990). Mutational analysis of plum pox potyvirus polyprotein processing by the NI_a protease in *Escherichia coli. J. Gen. Virol.* 71, 2773-2779.

8.- Riechmann, J.L.,* Laín, S., and García, J.A. (1990). Infectious *in vitro* transcripts from a plum pox potyvirus cDNA clone. *Virology* 177, 710-716.

7.- García, J.A.,* Riechmann, J.L., Martín, M.T. and Laín, S. (1989). Proteolytic activity of the plum pox potyvirus NI_a-protein on excess of natural and artificial substrates in *Escherichia coli. FEBS Lett.* 257, 269-273.

6.- Laín, S.,* Riechmann, J.L., Martín, M.T., and García, J.A. (1989). Homologus potyvirus and flavivirus proteins belonging to a superfamily of helicase-like proteins. *Gene* 82, 357-362.

5.- Riechmann, J.L.,* Laín, S., and García, J.A. (1989). The genome-linked protein and 5'-end RNA sequence of plum pox potyvirus. *J. Gen.Virol.* 70, 2785-2789.

4.- Laín, S.,* Riechmann, J.L., and García, J.A. (1989). The complete nucleotide sequence of plum pox potyvirus RNA. *Virus Res.* 13, 157-172.

3.- García, J.A.,* Riechmann, J.L., and Laín, S. (1989). Proteolytic activity of the plum pox potyvirus NI_a-like protein in *Escherichia coli. Virology* 170, 362-369.

2.- García, J.A.,* Riechmann, J.L., and Laín, S. (1989). Artificial cleavage site recognized by plum pox potyvirus protease in *Escherichia coli. J. Virol.* 63, 2457-2460.

1.- Laín, S.,* Riechmann, J.L., Méndez, E., and García, J.A. (1988). Nucleotide sequence of the 3' terminal region of plum pox potyvirus RNA. *Virus Res.* 10, 325-342.

PUBLICATIONS: books, book chapters and sections

14.- Álvarez-Urdiola, R., Borràs, E., Valverde, F., Matus, J. T., Sabidó, E., and Riechmann, J.L. (2023). Peptidomics methods applied to the study of flower development. In: *Flower Development-Methods and Protocols* (2nd edition) J. L. Riechmann and C. Ferrándiz (eds.), Methods in Molecular Biology, Volume 2686, 509-536. Humana Press, Springer, New York. doi.org/10.1007/978-1-0716-3299-4_24.

13.- Álvarez-Urdiola, R., Matus, J. T., and Riechmann, J.L. (2023). Multi-omics methods applied to flower development. In: *Flower Development-Methods and Protocols* (2nd edition) J. L. Riechmann and C. Ferrándiz (eds.), Methods in Molecular Biology, Volume 2686, 495-508. Humana Press, Springer, New York. doi.org/10.1007/978-1-0716-3299-4_23.

12.- Álvarez-Urdiola, R., Bustamante, M., Ribes, J., and Riechmann, J.L. (2023). Gene expression analysis by quantitative real-time PCR for floral tissues. In: *Flower Development-Methods and Protocols* (2nd edition) J. L. Riechmann and C. Ferrándiz (eds.), Methods in Molecular Biology, Volume 2686, 403-428. Humana Press, Springer, New York. doi.org/10.1007/978-1-0716-3299-4_20.

11.- Riechmann, J.L. and Ferrándiz, C. (*editors*) (2023) Flower Development-Methods and Protocols (2nd edition) -- Methods in Molecular Biology, Volume 2686. Humana Press, Springer, New York. ISBN 978-1-0716-3298-7 (print) ISBN 978-1-0716-3299-4 (eBook). https://doi.org/10.1007/978-1-0716-3299-4.

10.- Wellmer, F., Bowman, J.L., Davies, B., Ferrándiz, C., Fletcher, J.C., Franks, R.G., Graciet, E., Gregis, V., Ito, T., Jack, T.P., Jiao, Y., Kater, M.M., Ma, H., Meyerowitz, E.M., Prunet, N., and Riechmann, J.L. (2014). Flower development - open questions and future directions. In: *Flower Development-Methods and Protocols*, J. L. Riechmann and F. Wellmer (eds.), Methods in Molecular Biology, Volume 1110, 103-124. Humana Press, Springer, New York. ISBN: 978-1-4614-9407-2 (Print) 978-1-4614-9408-9 (Online)

9.- Matus, T., Ferrier, T., and Riechmann, J.L. (2014). Identification of Arabidopsis knock-out lines for genes of interest. In: *Flower Development-Methods and Protocols*, J. L. Riechmann and F. Wellmer (eds.), Methods in Molecular Biology, Volume 1110, 347-362. Humana Press, Springer, New York. ISBN: 978-1-4614-9407-2 (Print) 978-1-4614-9408-9 (Online)

8.- Bustamante, M., Jin, J., Casagran, O., Nolan, T., and Riechmann, J.L. (2014). Gene expression analysis by quantitative real-time PCR in floral tissues. In: *Flower Development-Methods and Protocols*, J. L. Riechmann and F. Wellmer (eds.), Methods in Molecular Biology, Volume 1110, 363-382. Humana Press, Springer, New York. ISBN: 978-1-4614-9407-2 (Print) 978-1-4614-9408-9 (Online)

7.- Riechmann, J.L. and Wellmer, F. (*editors*) (2014) Flower Development-Methods and Protocols -- Methods in Molecular Biology, Volume 1110. Humana Press, Springer, New York. ISBN: 978-1-4614-9407-2 (Print) 978-1-4614-9408-9 (Online)

6.- Jiao, Y. and Riechmann, J.L. (2012). Genome-Wide Profiling of Uncapped mRNA. In: *Plant Signaling Networks*, Z.-Y. Wang and Z. Yang (eds.), Methods in Molecular Biology, Volume 876, 207-216. Humana Press, Springer, New York. ISBN: 978-1-61779-808-5 (Print) 978-1-61779-809-2 (Online)

5.- Hassibi, A., Vikalo, H., Riechmann, J.L., and Hassibi, B. (2012). FRET-based real-time DNA microarrays. In: *Functional Genomics - part 3*, M. Kaufmann and C. Klinger (eds.), Methods in Molecular Biology, Volume 815, 147-159. Humana Press, Springer, New York. ISBN: 978-1-61779-423-0 (Print) 978-1-61779-424-7 (Online)

4.- Riechmann, J.L. (2007) Transcription Factors of Arabidopsis and Rice: a genomic perspective. In: *Regulation of transcription in plants*, pp 28-53, K. D. Grasser (ed.), Annual Plant Reviews, Volume 29, Blackwell Publishing, Oxford. ISBN: 978-1-4051-4528-2. DOI: 10.1002/9780470988886.

3.- Riechmann, J.L. (2005). Genetic Analysis of Flower Development in *Arabidopsis thaliana*: the ABC Model of Floral Organ Identity Determination. In: *Key Experiments in Practical Developmental Biology*, pp143-152, M. Mari-Beffa and J. Knight (eds.), Cambridge University Press, New York. ISBN: 9780521833158. DOI: 10.2277/0521833159.

2.- Riechmann, J.L. (2004). Arabidopsis transcription factors: genome-wide comparative analysis. In: *Encyclopedia of Plant & Crop Science*, pp 51-54, R.M. Goodman (ed.), Marcel Dekker, Inc., New York. ISBN: 9780824709440. DOI: 10.1081/E-EPCS 120010627.

1.- Riechmann, J.L. (2002). Transcriptional regulation: a genomic overview. In: *The Arabidopsis Book*, C.R. Somerville and E.M. Meyerowitz (eds.), American Society of Plant Biologists, Rockville, MD. ISSN: 1543-8120. DOI: 10.1199/tab0085, https://aspb.org/publications/other-aspb-publications/the-arabidopsis-book/

PUBLICATIONS: non peer-reviewed articles

7.- Plants for the Future ETP, Working Group on Sustainable Agriculture (2021) Plants for the Future´s perspective on sustainable agriculture - R&I recommendation report. www.plantetp.org/plants-future's-perspective-sustainable-agriculture-–-ri-recommendation-report

6.- Casacuberta, J., Puigdomènech, P., and Riechmann, J.L. (2020). Les noves tecnologies d'edició genòmica: Impacte en la millora de plantes. In: *Dossier Tècnic* 100, 70-73. Departament d'Agricultura, Ramaderia, Pesca i Alimentació (DARP), Generalitat de Catalunya.

5.- Mas, P, Martínez-García, J., Riechmann, J.L., and Pelaz, S. (2015). ICREA WORKSHOP: From model systems to crops: challenges for a new era in plant biology. *Physiol. Plantarum* 155, 1-3.

4.- Riechmann, J.L.,* Zhang, J., and Broun, P. (1999). Plant Genomics: the next Green Revolution? *Chem Ind*. 12, 468-472.

3.- García, J.A.,* Riechmann, J.L., Laín, S., Martín, M.T., Guo, H., Simón, L., Fernández, A., Domínguez, E., and Cervera, M.T. (1994). Molecular characterization of plum pox potyvirus. *EPPO Bulletin* 24, 543-553.

2.- Riechmann, J.L.* (1986). Manipulación de vegetales mediante ingeniería genética (y 2). *Fertilización* 99, 2-11. (Plant genetic engineering (and 2); published in Spanish).

1.- Riechmann, J.L.* (1986). Manipulación de vegetales mediante ingeniería genética (1). *Fertilización* 98, 18-28. (Plant genetic engineering (1); published in Spanish).

PATENTS - Issued Patents

UNITED STATES
US Patent and Trademark Office (USPTO) (http://patft.uspto.gov/)

33.- Riechmann, J. L.; Creelman, R. A.; Ratcliffe, O. J.; Reuber, T. L.; Gutterson, N. I. Polynucleotides and polypeptides in plants. United States Patent 11,566,256. Issued January 31, 2023. (Application number: 16/365,323. Filed: March 26 7, 2019). Assignee: Mendel Biotechnology, Inc. (Hayward, CA)

32.- Hassibi, A.; Hassibi, B.; Vikalo, H.; Riechmann, J. L. Methods for detecting target analytes. United States Patent 11,098,345. Issued August 24, 2021. (Application number: 16/380,584. Filed: April 10, 2019). Assignee: California Institute of Technology (Pasadena, CA). Licensed and in exploitation by Insilixa, inc.

31.- Riechmann, J. L.; Ratcliffe, O. J.; Reuber, T. L.; Krolikowski, K.; Heard, J. E.; Pineda, O.; Jiang, C.-Z.; Creelman, R. A.; Kumimoto, R. W.; Chomet, P. S. Plant tolerance to low water, low nitrogen and cold II. United States Patent 10,815,493. Issued October 27, 2020. (Application number: 16/270,166. Filed: February 7, 2019). Assignee: Mendel Biotechnology, Inc. (Hayward, CA) and Monsanto Technology LLC (St. Louis, MO)

30.- Riechmann, J. L.; Ratcliffe, O. J.; Reuber, T. L.; Krolikowski, K.; Heard, J. E.; Pineda, O.; Jiang, C.-Z.; Creelman, R. A.; Kumimoto, R. W.; Chomet, P. S. Plant tolerance to low water, low nitrogen and cold II. United States Patent 10,273,497. Issued April 30, 2019. (Application number: 15/713,497. Filed: September 22, 2017). Assignee: Mendel Biotechnology, Inc. (Hayward, CA) and Monsanto Technology LLC (St. Louis, MO)

29.- Heard, J. E.; Riechmann, J. L.; Creelman, R. A.; Ratcliffe, O. J.; Canales, R. D.; Repetti, P. P.; Kumimoto, R. W.; Gutterson, N. I.; Reuber, T. L.; Pineda, O.; Jiang, C.-Z.; Century, K. S.; Adam, L.; Zhang, J. Z.; Hempel, F. D.; Libby, J. M. Plant transcriptional regulators. United States Patent 10,266,575. Issued April 23, 2019. (Application number: 15/821,061. Filed: November 22, 2017). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

28.- Heard, J. E.; Riechmann, J. L.; Ratcliffe, O. J.; Pineda, O.; Reuber, T. L.; Zhang, J. Z.; Nadzan, G. Transcription factor sequences for conferring advantageous properties to plants. United States Patent 10,093,942. Issued October 9, 2019. (Application number: 15/239,811. Filed: August 17, 2016). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

27.- Heard, J. E.; Riechmann, J. L.; Creelman, R. A.; Ratcliffe, O. J.; Canales, R. D.; Repetti, P. P.; Kumimoto, R. W.; Gutterson, N. I.; Reuber, T. L.; Pineda, O.; Jiang, C.-Z.; Century, K. S.; Adam, L.; Zhang, J. Z.; Hempel, F. D.; Libby, J. M. Plant transcriptional regulators. United States Patent 9,856,297. Issued January 2, 2018. (Application number: 14/229,574. Filed: March 28, 2014). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

26.- Riechmann, J. L.; Ratcliffe, O. J.; Reuber, T. L.; Krolikowski, K.; Heard, J. E.; Pineda, O.; Jiang, C.-Z.; Creelman, R. A.; Kumimoto, R. W.; Chomet, P. S. Plant tolerance to low water, low nitrogen and cold II. United States Patent 9,783,819. Issued October 10, 2017. (Application number: 14/666,086. Filed: March 23, 2015). Assignee: Mendel Biotechnology, Inc. (Hayward, CA) and Monsanto Technology LLC (St. Louis, MO)

25.- Sherman, B. K.; Riechmann, J. L.; Jiang, C.-Z.; Heard, J. E.; Haake, V.; Creelman, R. A.; Ratcliffe, O. J.; Adam, L.; Reuber, T. L.; Keddie, J. S.; Broun, P. E.; Pilgrim, M. L.; DuBell, III, A. N.; Pineda, O.; Yu, G.L. Polynucleotides and polypeptides in plants. United States Patent 9,725,728. Issued August 8, 2017. (Application number: 14/452,242. Filed: August 5, 2014). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

24.- Reuber, T. L.; Ratcliffe, O. J.; Hempel, F. D.; Adam, L.; Jiang, C.-Z.; Creelman, R. A.; Riechmann, J. L.; Heard, J. E.; Samaha, R. R.; Broun, P. E.; Hertzberg, M.; Nasholm, T. G748 transcription factor for improving plant

growth. United States Patent 9,676,831. Issued June 13, 2017. (Application number: 13/582,046. Filed: March 3, 2011). Assignee: Mendel Biotechnology, Inc. (Hayward, CA) and SweTree Technologies AB (Umea, SE).

23.- Riechmann, J. L.; Creelman, R. A.; Ratcliffe, O. J.; Reuber, T. L.; Gutterson, N. I. Polynucleotides and polypeptides in plants. United States Patent 9,476,039. Issued October 25, 2016. (Application number: 13/758,380. Filed: February 4, 2013). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

22.- Heard, J. E.; Riechmann, J. L.; Ratcliffe, O. J.; Pineda, O.; Reuber, T. L.; Zhang, J. Z.; Nadzan, G. Transcription factor sequences for conferring advantageous properties to plants. United States Patent 9,447,425. Issued September 20, 2016. (Application number: 12/573,311. Filed: October 5, 2009). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

21.- Creelman, R. A.; Adam, L.; Riechmann, J. L.; Heard, J. E.; Pineda, O.; Jiang, C.-Z.; Ratcliffe, O. J.; Reuber, T. L. Transcription factors for increasing yield. United States Patent 9,175,051. Issued November 3, 2015. (Application number: 12/977,763. Filed: December 23, 2010). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

20.- Hassibi, A.; Hassibi, B.; Vikalo, H.; Riechmann, J. L. Real time microarrays. United States Patent 9,133,504. Issued September 15, 2015. (Application number: 11/758,621. Filed: June 5, 2007). Assignee: California Institute of Technology (Pasadena, CA). Licensed to Insilixa.

19.- Heard, J. E.; Riechmann, J. L.; Creelman, R. A.; Ratcliffe, O. J.; Canales, R. D.; Repetti, P. P.; Kumimoto, R. W.; Gutterson, N. I.; Reuber, T. L.; Pineda, O.; Jiang, C.-Z.; Century, K. S.; Adam, L.; Zhang, J. Z.; Hempel, F. D.; Libby, J. M. MYB-related transcriptional regulators that confer altered root hair, trichome morphology, and increased tolerance to abiotic stress in plants. United States Patent 8,686,226. Issued April 1, 2014. (Application number: 12/705,845. Filed: February 15, 2010). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

18.- Jiang, C.-Z.; Heard, J. E.; Ratcliffe, O. J.; Creelman, R. A.; Adam, L.; Reuber, T. L.; Riechmann, J. L.; Haake, V.; Dubell, A.; Keddie, J. S.; Sherman, B. K. Polynucleotides and polypeptides in plants. United States Patent 8,541,665. Issued September 24, 2013. (Application number: 12/917,303. Filed: November 1, 2010). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

17.- Ratcliffe, O. J.; Riechmann, J. L.; Adam, L.; Heard, J. E.; Pilgrim, M. L. ; Jiang, C.-Z.; Reuber, T. L.; Creelman, R. A.; Pineda, O.; Yu, G.L. Polynucleotides and polypeptides in plants. United States Patent 8,426,685. Issued April 23, 2013. (Application number: 12/638,750. Filed: December 15, 2009). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

16.- Riechmann, J. L.; Jiang, C.-Z.; Heard, J. E.; Creelman, R. A.; Ratcliffe, O. J.; Reuber, T. L.; Repetti, P. P.; Kumimoto, R.; Gutterson, N. I.; Pineda, O.; Nadzan, G. Polynucleotides and polypeptides in plants. United States Patent 8,426,678. Issued April 23, 2013. (Application number: 12/702,109. Filed: February 8, 2010). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

15.- Creelman, R. A.; Ratcliffe, O.; Kumimoto, R.; Gutterson, N. I.; Reuber, T. L.; Libby, J. M.; Heard, J. E.; Riechmann, J. L.; Pineda, O. Plant transcriptional regulators of abiotic stress. United States Patent 8,283,519. Issued October 9, 2012. (Application number: 10/838,616. Filed: May 4, 2004). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

14.- Riechmann, J. L.; Heard, J. E.; Ratcliffe, O.; Reuber, T. L. Polynucleotides and polypeptides in plants. United States Patent 8,110,725. Issued February 7, 2012. (Application number: 12/338,024. Filed: December 18, 2008). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

13.- Riechmann, J. L.; Ratcliffe, O.; Reuber, T. L.; Krolikowski, K; Heard, J. E.; Pineda, O.; Jiang, C.-Z.; Creelman, R. A.; Kumimoto, R.; Chomet, P. Plant tolerance to low water, low nitrogen and cold. United States Patent 8,022,274. Issued September 20, 2011. (Application number: 11/981,667. Filed: March 7, 2008). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

12.- Reuber, T. L.; Ratcliffe, O.; Heard, J. E.; Riechmann, J. L.; Pineda, O.; Adam, L. Transcription factors for increasing yield. United States Patent 7,858,848. Issued December 28, 2010. (Application number: 11/479,226. Filed: June 30, 2006). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

11.- Jiang, C.-Z.; Heard, J. E.; Ratcliffe, O.; Creelman, R. A.; Reuber, T. L.; Riechmann, J. L. Polynucleotides and polypeptides in plants. United States Patent 7,825,296. Issued November 2, 2010. (Application number: 11/642,814. Filed: December 20, 2006). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

10.- Heard, J. E.; Riechmann, J. L.; Creelman, R. A.; Ratcliffe, O.; Canales, R. D.; Gutterson, N.; Reuber, T. L.; Pineda, O.; Morrison, T. A.; Jiang, C.-Z.; Century, K. S. Plant transcriptional regulators. United States Patent 7,663,025. Issued February 16, 2010. (Application number: 11/435,388. Filed: May 15, 2006). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

9.- Sherman, B. K.; Riechmann, J. L.; Ratcliffe, O.; Jiang, C.-Z.; Heard, J. E.; Haake, V.; Creelman, R. A.; Adam, L.; Reuber, T. L.; Keddie, J.; DuBell, A. N.; Pineda, O.; Repetti, P. P.; Century, K. S.; Gutterson, N.; Yu, G.-L.; Broun, P. E.; Kumimoto, R.; Pilgrim, M. L. Polynucleotides and polypeptides in plants. United States Patent 7,659,446. Issued February 9, 2010. (Application number: 10/546,266. Filed: February 25, 2004). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

8.- Reuber, T. L.; Riechmann, J. L.; Heard, J. E.; Jiang, C.-Z.; Adam, L.; Dubell, A. N.; Ratcliffe, O.; Pineda, O.; Yu, G.L.; Broun, P. Stress-related polynucleotides and polypeptides in plants. United States Patent 7,601,893. Issued October 13, 2009. (Application number: 11/725,235. Filed: March 16, 2007). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

7.- Heard, J. E.; Riechmann, J. L.; Ratcliffe, O.; Pineda, O. Transcription factor sequences for conferring advantageous properties to plants. United States Patent 7,598,429. Issued October 6, 2009. (Application number 11/375,241. Filed: March 13, 2006). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

6.- Zhang, J.; Fromm, M. E.; Heard, J. E.; Riechmann, J. L.; Adam, L.; Broun, P. E.; Pineda, O.; Reuber, T. L.; Keddie, J.; Yu, G.-L.; Jiang, C.-Z.; Samaha, R.; Pilgrim, M. L.; Creelman, R. A.; DuBell, A. N.; Ratcliffe, O.; Kumimoto, R.; Sherman, B. K. Polynucleotides and polypeptides in plants. United States Patent 7,345,217. Issued March 18, 2008. (Application number 10/412,699. Filed: April 10, 2003). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

5.- Ratcliffe, O; Riechmann, J. L.; Adam, L. J.; DuBell, A. N.; Heard, J. E.; Pilgrim, M. L.; Jiang, C.-Z.; Reuber, T. L.; Creelman, R. A.; Pineda, O.; Yu, G.-L.; Broun, P. E. Yield-related polynucleotides and polypeptides in plants. United States Patent 7,238,860. Issued July 3, 2007. (Application number 10/225,066. Filed: August 9, 2002). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

4.- Jiang, C.-Z.; Heard, J. E.; Ratcliffe, O.; Creelman, R. A.; Riechmann, J. L.; Haake, V. Polynucleotides and polypeptides that confer increased biomass and tolerance to cold, water deprivation and low nitrogen to

plants. United States Patent 7,196,245. Issued March 27, 2007. (Application number 10/666,642. Filed: September 18, 2003). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

3.- Reuber, T. L.; Riechmann, J. L.; Heard, J. E.; Jiang, C.-Z.; Adam, L. J.; DuBell, A. N.; Ratcliffe, O.; Pineda, O.; Yu, G.-L.; Broun, P. E. Stress-related polynucleotides and polypeptides in plants. United States Patent 7,193,129. Issued March 20, 2007. (Application number 10/225,068. Filed: August 9, 2002). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

2.- Heard, J.E.; Riechmann J.L.; Creelman, R.A.; Keddie, J.; Pilgrim; M.L.; DuBell, A.N.; Jiang, C.-Z.; Ratcliffe, O.; Pineda, O.; Yu, G.-L.; Broun, P.E. Biochemistry-related polynucleotides and polypeptides in plants. United States Patent 7,135,616. Issued November 14, 2006. (Application number 10/225,067. Filed: August 9, 2002). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

1.- Heard, J.; Broun, P.; Riechmann, J.L.; Keddie, J.; Pineda, O.; Adam, L.; Samaha, R.; Zhang, J.; Yu, G.-L.; Ratcliffe, O.; Pilgrim, M.; Jiang, C.-J.; Reuber, L. Transgenic plants comprising polynucleotides encoding transcription factors that confer disease tolerance. United States Patent 6,664,446. Issued December 16, 2003. (Application number 09/533,029. Filed: March 22, 2000). Assignee: Mendel Biotechnology, Inc. (Hayward, CA).

EUROPEAN AND INTERNATIONAL

World Intellectual Property Organization
(http://patentscope.wipo.int/search/en/advancedSearch.jsf)

92 published patent applications (Inventor=Jose Luis Riechmann [IN:(RIECHMANN, Jose Luis)] & excluding USA patent application) (January 2023)

PRESENTATIONS AT INTERNATIONAL CONGRESSES

39.- Alvarez, R., Matus, J.T., Riechmann, J.L.* (2023) Characterization of the Arabidopsis peptidome and its role in flower development. INRA/UPSC/CRAG Symposium on Plant Integrative Biology. Umea (Sweden). February 21-23, 2023.

38.- Alvarez, R., Matus, J.T., Riechmann, J.L.* (2022) Characterization of the Arabidopsis peptidome and its role in flower development. Workshop on Molecular Mechanisms Controlling Flower Development. Alicante (Spain). May 29 - June 2, 2022.

37.- Alvarez, R.*, Matus, J.T., Riechmann, J.L.* (2022) Characterization of the Arabidopsis peptidome and its role in flower development. Early-Career Researcher Conference JIC-MPIPZ-CRAG. Norwich (UK). May 8-11, 2022.

36.- Alvarez, R*., Matus, J.T., Riechmann, J.L. (2019) Characterization of proteome and transcriptome correlations in response to the AP1-mediated activation of flower development in Arabidopsis. Workshop on Molecular Mechanisms Controlling Flower Development. Presqu'ile de Giens (France). June 18-22, 2019.

35.- Riechmann, J.L.* (2015) Three vignettes on flower development: CAL, sORFs, and CUC1. INRA/UPSC/CRAG Symposium on Plant Integrative Biology. Nancy (France). October 6-8, 2015.

34.- M. Bustamante, T. Ferrier, J. Jin, Riechmann, J.L.* (2015) Two vignettes on flower development: CUC1 and sORFs. Workshop on Molecular Mechanisms Controlling Flower Development. Aiguablava (Spain). June 7-11, 2015.

33.- Pajoro, A*., Madrigal, P., Smaczniak, C., Wellmer, F., Krajewski, P., Riechmann, J.L., Angenent, G.C., and Kaufmann, K. (2013) Dynamics of gene regulation by MADS-domain transcription factors in Arabidopsis

flower development. Workshop on Molecular Mechanisms Controlling Flower Development. Presqu'ile de Giens (France). June 8-12, 2013.

32.- K. Kaufmann*, F. Wellmer, G. Angenent, and J. L. Riechmann (2010). Orchestration of floral initiation by APETALA1. Systems Biology: Global Regulation of Gene Expression. Cold Spring Harbor Laboratory (USA). March 23-27, 2010.

31.- T. Mastro, Y. Jiao, J. L. Riechmann* (2008). Genomic analyses of novel coding short open reading frames in Arabidopsis: involvement in flower development. 19th International Conference in Arabidopsis Research. Montreal (Canada). July 23-27, 2008.

30.- F. Wellmer*, M. Alves-Ferreira, J. L. Riechmann, and E. M. Meyerowitz (2007). Whole-Genome Analysis Of Gene Expression During Early Arabidopsis Flower Development. Plant and Animal Genomes XV Conference. San Diego, California (USA)

29.- F. Wellmer*, M. Alves-Ferreira, A. Dubois, J. L. Riechmann, and E. M. Meyerowitz (2004). Patterns of gene expression during Arabidopsis flower development. 15th International Conference on Arabidopsis Research. Berlin (Germany).

28.- F. Wellmer*, J. L. Riechmann, M. Alves-Ferreira, A. Dubois, and E. M. Meyerowitz (2004). Gene expression analysis of Arabidopsis flower development. Plant and Animal Genomes XII Conference. San Diego, California (USA)

27.- F. Wellmer*, M. Alves-Ferreira, J. L. Riechmann, and E. M. Meyerowitz (2003). Gene expression analysis of Arabidopsis flower development. 14th International Conference on Arabidopsis Research. Madison, Wisconsin (USA).

26.- P. Broun*, R. A. Creelman, and J. L Riechmann (2002). Increased epidermal wax accumulation mediated by a transcription factor in Arabidopsis. 13th International Conference on Arabidopsis Research. Seville (Spain).

25.- F. D. Hempel*, O. Ratcliffe, and J. L. Riechmann (2002). Three closely-related AP2/ERF genes alter leaf/shoot interactions and induce axillary shoot growth from the base of the Arabidopsis leaf. Poster presentation. Workshop on "Leaf development", Instituto Juan March, Madrid (Spain).

24.- O. J. Ratcliffe*, L. Reuber, and J. L. Riechmann (2001). Genomic analysis of the floral transition. Oral presentation. EMBO workshop on the molecular basis of the floral transition. Norwich (UK).

23.- O. J. Ratcliffe, L. Reuber, and J. L. Riechmann* (2001). Genomic analysis of the floral transition. Oral presentation. 12th International Conference on Arabidopsis Research. Madison, Wisconsin (USA).

22.- V. Haake*, D. Cook, J. L. Riechmann, M. F. Thomashow, and J. Z. Zhang (2001). The identification of transcription factors regulating temperature and water stress responses. Oral presentation. 12th International Conference on Arabidopsis Research. Madison, Wisconsin (USA).

21.- F. Wellmer*, J. L. Riechmann, M. Alves-Ferreira, and E. M. Meyerowitz (2001). DNA microarray analysis of Arabidopsis flower development. Poster presentation. 12th International Conference on Arabidopsis Research. Madison, Wisconsin (USA).

20.- J. L. Riechmann*, J. Heard, L. Adam, R. Creelman, C.-Z. Jiang, J. Keddie, G. Martin, M. Pilgrim, O. Pineda, O. J. Ratcliffe, L. Reuber, R. Samaha, B. Sherman, and G.-L. Yu. (2000). Arabidopsis transcription factors: a genomic perspective. Oral presentation. Arabidopsis Genomics Meeting. Cold Spring Harbor Laboratories, NY (USA).

19.- J. L. Riechmann* and E. M. Meyerowitz (1997). Determination of petal and stamen identity by the APETALA3/PISTILLATA dimer is independent of its DNA-binding specificity. Poster presentation. 8th International Conference on Arabidopsis Research. Madison, Wisconsin (USA).

18.- J. L. Riechmann* and E. M. Meyerowitz (1997). Determination of floral organ identity by the MADS domain homeotic proteins AP1, AP3, PI, and AG is independent of their DNA-binding specificity. Poster presentation. 8th International Conference on Arabidopsis Research. Madison, Wisconsin (USA).

17.- J. L. Riechmann* and E. M. Meyerowitz (1996). The DNA-binding specificity of the MADS-domain organ identity proteins APETALA1, APETALA3, PISTILLATA, and AGAMOUS can be changed without affecting their activity in vivo. Poster presentation. 7th International Conference on Arabidopsis Research. Norwich (UK).

16.- J. L. Riechmann*, B. A. Krizek, and E. M. Meyerowitz (1995). Molecular analysis of the *Arabidopsis thaliana* MADS-domain proteins APETALA1, APETALA3, PISTILLATA, and AGAMOUS. Poster presentation. 6th International Conference on Arabidopsis Research. Madison, Wisconsin (USA).

15.- J. L. Riechmann*, B. A. Krizek, and E. M. Meyerowitz (1995). Molecular analysis of the *Arabidopsis thaliana* MADS-domain proteins APETALA1, APETALA3, PISTILLATA, and AGAMOUS. Oral presentation. Juan March Foundation Workshop on "Flower development". Madrid (Spain).

14.- M. T. Cervera*, P. Sáenz, J. L. Riechmann and J. A. García (1994). A full-length cDNA clone from the PS M type isolate of plum pox potyvirus as a tool for studying determinants of pathogenicity. Poster presentation. 4th International Society of Plant Molecular Biology Congress. Amsterdam (Netherlands).

13.- J. L. Riechmann, M. T. Cervera and J. A. García* (1994). Processing of the plum pox virus polyprotein at the P3-6K1 junction is not required for virus viability, but its alteration affects infectivity and symptom induction. Oral presentation. 4th International Society of Plant Molecular Biology Congress. Amsterdam (Netherlands).

12.- M. T. Cervera*, J. L. Riechmann, P. Sáenz and J. A. García (1994). Biological properties of chimeric plum pox potyvirus obtained by in vitro recombination. Poster presentation. Juan March Foundation Workshop on "Genetic recombination and defective interfering particles in RNA viruses". Madrid (Spain).

11.- M. T. Cervera*, J. L. Riechmann and J. A. García (1993). Study of determinants of pathogenicity of plum pox potyvirus. Oral presentation. IXth International Congress of Virology. Glasgow (United Kingdom).

10.- M. T. Cervera*, J. L. Riechmann, M. T. Martín and J. A. García (1993). Genetic analysis of determinants of pathogenicity in plum pox potyvirus. Oral presentation. Biotechnology for Crop Improvement in Latin America. Caracas. (Venezuela).

9.- M. T. Cervera*, J. L. Riechmann, M. T. Martín and J. A. García (1993). Genetic analysis of different plum pox potyvirus isolates. Poster presentation. Juan March Foundation Workshop on "Engineering plants against pests and pathogens". Madrid (Spain).

8.- J. A. García*, J. L. Riechmann, S. Laín, M. T. Martín and M. T. Cervera (1991). Organización del genoma del virus de la sharka (plum pox virus). Oral presentation. Conference des regions du sud Europe atlantique: "Quelques aspects de la recherche biologique et agronomique en Espagne, en France et au Portugal: vers une cooperation interregionale". Bordeaux (France).

7.- J. L. Riechmann*, S. Laín and J. A. García (1991). Identification of the initiation codon of plum pox potyvirus genomic RNA. Poster presentation. Juan March Foundation Workshop on "Regulation of translation in animal virus-infected cells". Sigüenza (Spain).

6.- J. L. Riechmann*, S. Laín and J. A. García (1990). Infectious *in vitro* transcripts from a plum pox potyvirus cDNA clone. Oral presentation. VIIIth International Congress of Virology. Berlin (Germany).

5.- J. A. García*, S. Laín, M. T. Martín, M. T. Cervera, C. López-Otín and J. L. Riechmann (1990). Expression and function of plum pox potyvirus gene products. Oral presentation. Juan March Foundation Workshop on "Genome expression and pathogenesis of plant RNA viruses". Madrid (Spain).

4.- S. Laín*, M. T. Martín, J. L. Riechmann and J. A. García (1990). RNA helicase activity associated to plum pox virus cylindrical inclusion protein. Oral presentation. Juan March Foundation Workshop on "Genome expression and pathogenesis of plant RNA viruses". Madrid (Spain).

3.- J. A. García*, J. L. Riechmann, M. T. Martín, C. López-Otín and S. Laín (1989). Genomic expression of plum pox potyvirus. Oral presentation. EMBO Workshop on "Molecular Biology of Plant Virus Pathogenicity". Wye (Great Britain).

2.- S. Laín*, J. L. Riechmann, M. T. Martín, C. López-Otín and J. A. García (1989). Homologous poty-, flavi-, and pesti- viruses belonging to a superfamily of helicaselike proteins. RNA-stimulated ATPase activity of plum pox potyvirus CI protein. Poster presentation. 2nd International Symposium on Positive Strand RNA viruses. Vienna (Austria).

1.- J. A. García*, J. L. Riechmann, M. T. Martín and S. Laín (1988). Structure and expression of the genome of plum pox potyvirus. Poster presentation. 2nd International Congress of Plant Molecular Biology. Jerusalem (Israel).

INVITED LECTURES AND SEMINARS

- Invited Conference: "Biotecnología de plantas: de ciencia básica a los problemas globales", as part of the Conference Series "Ciencia de hoy para un futuro mejor - 75 aniversario del CSIC", Residencia Investigadores CSIC, Barcelona, Spain. October 29, 2014.
- Inaugural Conference: "Plant Biotechnology: from basic science to global problems", Master Course on Plant Biology and Biotechnology (2014/2015). UAB, Barcelona, Spain October 22, 2014.
- Invited Conference: "Biotecnología de plantas: de la investigación básica a los problemas globales", as part of the Conference Series "Desafíos del Siglo XXI - La voz de los descubrimientos: descubrir, innovar, transferir el conocimiento", Residencia Investigadores CSIC, Barcelona, Spain. November 18, 2013.
- Seminar: “Gene regulatory networks in Arabidopsis flower development", Centro de Biotecnología y Genómica de Plantas (CBGP), Madrid, Spain. October 18, 2013.
- Seminar: “Genomic analyses of gene regulatory networks in plants: two case studies", Trinity College, Dublin, Ireland. October 4, 2013.
- Seminar: “Gene regulatory networks in Arabidopsis flower development", Heinrich-Heine Universität, Düsseldorf, Germany. July 15, 2013.
- Invited Speaker and Symposium Chair: “Gene regulatory networks in Arabidopsis flower development”, symposium on “Flower Development”, 10th International Plant Molecular Biology (IPMB) Congress, Jeju, Korea, October 21-25, 2012.
- Seminar: “Analyses of gene regulatory networks in Arabidopsis development using genomic technologies (ChIP-Seq and transcriptomics)", Advanced Seminar on "omics" technologies, SEBIOT meeting 2012, Bilbao, Spain, September 18, 2012.
- Seminar: “Gene regulatory networks in Arabidopsis flower development", John Innes Centre, Norwich, UK. March 23, 2012.
- Seminar: “Gene regulatory networks in Arabidopsis flower development", Center for Plant Integrative Biology, University of Nottingham, Nottingham, UK. March 21, 2012.
- Seminar: “Genomic and genetic analyses of the Arabidopsis flower development gene regulatory network", College of Agriculture and Biotechnology, Zhejiang University, Hanghzou, China. November 14, 2011.
- Seminar: “Gene regulatory networks in Arabidopsis flower development", Temasek Life Sciences Laboratory, Singapore. November 11, 2011.
- Seminar: “Genomic and genetic analyses of the Arabidopsis flower development gene regulatory network”, Universidad de Barcelona, Barcelona, Spain. October 25, 2011.
- Invited Speaker: "Genomic and genetic analyses of the Arabidopsis flower development gene regulatory network" XXXVIII Congreso de la Sociedad Española de Genética (session on: Genética de Plantas), Murcia, Spain, September 21-23, 2011.
- Invited Speaker: "Orchestration of floral initiation by APETALA1" X Reunión de Biología Molecular de Plantas (session on: Genómica, Proteómica y Metabolómica), Valencia, Spain, July 8-10, 2010.
- Seminar: “Gene expression and ChIP-Seq studies of flower development: Orchestration of floral initiation by APETALA1”, Universidad Miguel Hernández, Campus de Elche, Elche, Spain. June 18, 2010.
- Seminar: “Gene expression and ChIP-Seq studies of flower development: Orchestration of floral initiation by APETALA1”, Instituto Biología Molecular y Celular de Plantas (IBMCP), Valencia, Spain. May 21, 2010.
- Seminar: “Gene expression and ChIP-Seq studies of flower development: Orchestration of floral initiation by APETALA1”, Mendel Biotechnology, Hayward (CA), USA. April 8, 2010.
- Seminar: “Gene expression and ChIP-Seq studies of flower development: Orchestration of floral initiation by APETALA1”, Centro Nacional de Biotecnología, Madrid, Spain. Feb 15, 2010.
- Seminar: “Gene expression and ChIP-Seq studies of flower development: Orchestration of floral initiation by APETALA1”, Center for Research in Agricultural Genomics, Barcelona, Spain. Jan 22, 2010.
- Invited Keynote Speaker: “Genome-Wide Analysis of Transcriptional Regulation During Flower Development”, symposium on “Transcription Factors as Global Regulators of Gene Expression”, 9th

International Plant Molecular Biology (IPMB) Congress, St. Louis, Missouri, USA, October 25-30, 2009.

- Lecture: “Genome-Wide Analysis of Transcriptional Regulation During Flower Development”, Workshop on “Mechanisms Controlling Flower Development”, Parador de Aiguablava, Girona, Spain, June 8-12, 2009.
- Lecture: “Genomic Analyses of Arabidopsis Flower Development”, Workshop on “Plant Functional Genomics: From Model Plants to Real Crops”, Barcelona, Spain, October 21-22, 2008.
- Seminar: “Genomic Analyses of Arabidopsis Flower Development”, Reunió Científica de la Xarxa de Referència en Biotecnologia de la Generalitat de Catalunya, Barcelona, Spain, July 8, 2008.
- Seminar: "Genomic analysis of novel coding short open reading frames in Arabidopsis", Institut de Biologia Molecular CID-CSIC, Barcelona, Spain. 4/4/2008.
- Seminar: "Arabidopsis flower development, gene expression, and microRNAs: a genomic approach", Institut de Biologia Molecular CID-CSIC, Barcelona, Spain. 2/21/2007.
- Lectures: “An introduction to DNA Microarrays”, The Huntington Library and Botanical Gardens, Pasadena, July 20, 2006; July 19, 2007; July 31, 2008; July 15, 2009.
- Seminar: “Arabidopsis flower development, gene expression, and microRNAs: a genomic approach”, University of California at Riverside. May 22, 2006.
- Seminar: "Análisis genómicos en Arabidopsis", Institut de Biologia Molecular CID-CSIC, Barcelona, Spain. 12/23/2004.
- Lectures: “Microarrays in Plant Botany Research”, The Huntington Library and Botanical Gardens, Pasadena, August 26, 2004; and July 14, 2005.
- Seminar: "Análisis genómicos en Arabidopsis: factores de transcripción y desarrollo de la flor", Centro Nacional de Biotecnología CSIC-UAM, Madrid, Spain, 2/24/2003.
- Seminar: "Análisis genómicos de los factores de transcripción de Arabidopsis", Institut de Biologia Molecular CID-CSIC, Barcelona, Spain. 10/4/2002.
- Lecture at the 1st Plant GEMs (Plant Genomics European Meetings): "Plant transcription factors", Technical University, Berlin, Germany, September 29-October 2, 2002.
- Seminar: “Genome-wide analysis of Arabidopsis transcription factors: from sequence to function”. Department of Molecular, Cell and Developmental Biology, University of California at Los Angeles (UCLA), February 7, 2002.
- Invited participant in the NSF-sponsored workshop on “Genomic approaches to cis-element/TF interactions”, National Science Foundation, Arlington, January 16-17, 2002.
- Lecture at the GARNet (Genomics Arabidopsis Resource Network) 2nd Functional Genomics Meeting, University of York, Heslington, UK, September 27-28, 2001.
- Lecture at the UK Genetics Society 4th Meeting on Arabidopsis: "*Arabidopsis* Transcription Factors: Genome-Wide Comparative and Functional Analysis". John Innes Centre, Norwich, UK, May 5, 2001.
- Lecture at the Michigan State University Genetics Program Symposium “Global Analysis of Complex Genetic Systems”. Michigan State University, April 21, 2001.
- Lecture at the 2001 Cologne Spring Meeting on “Evolutionary Genomics and Bioinformatics”. Cologne, Germany, February 28-March 2, 2001.
- Lecture at the 1997 Cologne Spring Meeting on “Protein-DNA recognition and the control of transcription”. Cologne, Germany, March 12-14, 1997.
- Seminar: “Bases moleculares del modelo genético ABC de desarrollo de la flor en *Arabidopsis*” Centro Nacional de Biotecnología, CSIC-Universidad Autónoma de Madrid, Madrid, Spain. 6/20/1996.
- Seminar: “Molecular analysis of *Arabidopsis* MADS domain floral homeotic proteins AP1, AP3, PI, and AG: The biochemistry of the ABC model”. Section of Plant Biology, University of California, Davis. 2/2/1996.