

CURRICULUM VITAE

Nombre: **Jorge José Casal**

Nacionalidad: argentino

Lugar y fecha de nacimiento: Buenos Aires, 30 de abril de 1959

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CARGOS ACTUALES

Profesor Titular, dedicación exclusiva, Cátedra de Fisiología Vegetal, Departamento de Biología Aplicada y Alimentos, Facultad de Agronomía, Universidad de Buenos Aires.

Investigador Superior (CONICET).

Jefe del laboratorio de Biología Molecular de Plantas, Instituto Leloir.

EDUCACION UNIVERSITARIA

1982: Ingeniero agrónomo, Universidad de Buenos Aires.

1987: *Magister Scientiae* (Producción Vegetal), Universidad de Buenos Aires.

1989: Ph D, Universidad de Leicester, Inglaterra.

BECAS Y PREMIOS RECIBIDOS

1983-1985: Beca de iniciación del CONICET.

1985-1987: Beca de perfeccionamiento del CONICET.

1987-1989: Beca externa del CONICET.

1987-1989: Beca del esquema Overseas Research Students (Reino Unido).

1989-1990: Beca de formación superior del CONICET.

Sociedad Argentina de Botánica: Premio Lorenzo Parodi, período 1986-1988.

Fundación Guggenheim, 2002.

Diploma al Mérito, Fundación Konex, 2003.

Medalla de Fundación Josefina Prats, 2005.

Georg Forster Research Award, Humboldt Foundation, 2014.

SUBSIDIOS RECIBIDOS COMO DIRECTOR DEL PROYECTO

Universidad de Buenos Aires: 1992; 1994; 1998; 2000; 2004; 2008; 2011; 2014
Fundación Antorchas: 1990; 1990; 1992; 1994; 1996; 1998.
The Third World Academy of Sciences (Italia): 1990.
CONICET: 1996; 1998, 2005; 2016
FONCYT: PICT1998; PICT2000; PICT2002; PICT2005; PICT2006, PICT2008, PICT2010
PICT2012, PICT2013, PICT2015, PICT2016, PICT2018, PICT2019
PME 2003
ICGEB (Trieste) 2007.

EXPERIENCIA DOCENTE

1980-1982: Ayudante *ad-honorem*, Cátedra de Fisiología Vegetal y Fitogeografía, Facultad de Agronomía, Universidad de Buenos Aires.
1982-1983: Ayudante segundo (interino), *idem*.
1983-1987; 1989: Ayudante primero *ad-honorem*, *idem*.
1990: Jefe de Trabajos Prácticos (interino), dedicación exclusiva, Cátedra de Fisiología Vegetal, Facultad de Agronomía, Universidad de Buenos Aires. CD 305
1991-1993: Profesor Adjunto (interino), dedicación exclusiva, *idem*. CD 646
1993-2003: Profesor Adjunto (regular), dedicación exclusiva, *idem*. CS 4257/93
1997-2003: Profesor Asociado *ad-honorem*, *idem*. CD 1897
2003-2009: Profesor Asociado (regular), dedicación exclusiva, *idem*, CS 1088/03

Docente - investigador categoría: I

FORMACIÓN DE RECURSOS HUMANOS

Dirección y co-dirección de becarios

Marcelo J. Yanovsky. Becario alumno de la UBA, 1991-1993. Becario de iniciación de la UBA, 1993-1995. Becario de perfeccionamiento de la UBA, 1995-1998.
Teresa Alconada-Magliano. Prórroga de beca de perfeccionamiento CONICET, 1993-1995. Beca posdoctoral CONICET, 1995-1996, Prórroga de Beca posdoctoral CONICET, 1996-1998.
Pablo Cerdán. (Co-director, director Dr Roberto Staneloni) becario del CONICET (1994-1999).
Agustina Mazzella. Beca estudiante UBA 1993-1996. Beca de iniciación CONICET, 1996-1998. Beca de perfeccionamiento CONICET, 1998-2001.
Hernán Boccalandro. Becario de iniciación de UBA, 1998-1999. Becario de doctorado, UBA, 2000-2002.
Karina Oliverio. Becaria FONCYT: 1998-2003.
Laura Luccioni. Becaria de posgrado de CONICET 2000-2005. Becaria Fundación Antorchas 2005-2006.
María Constanza Rossi, Becaria doctoral de la UBA, 2005-2006
Sabrina Buchovsky. Becaria de posgrado de CONICET, 2003-2008.
Romina Sellaro. Becaria FONCYT. 2004-2010. Becario posdoctoral CONICET desde 2011.
Santiago Trupkin, Becario de posgrado de CONICET, 2004-2009. Becario posdoctoral CONICET desde 2009.
Elizabeth Karayekov, Becaria FONCYT. 2004-2010.
María Crepy, Becaria de posgrado de CONICET, 2006-2011
Martín Krzymuski, Becario FONCYT 2008-2012. Becario CONICET, 2012-2014.
Juan Ignacio Cagnola, Becario de posgrado de CONICET, 2008-2013. becario posdoctoral CONICET, 2018-2020.

Ornella Pucciarello, Becaria de posgrado de CONICET, 2011-2016.
Victoria Moriconi, Becaria de posgrado FONCYT, 2011-2015 y CONICET, 2015-2017.
Martina Legris, Becaria de posgrado de CONICET, 2012-2017.
Manuel Pacín, becario de posgrado de CONICET, 2012-2017.
Silvia Ibarra, becaria posdoctoral de CONICET, 2014-2016.
Cecilia Costigliolo Rojas, Becaria de posgrado FONCYT, 2014-2017. Becaria CONICET 2017-2019.
Sofía Romero Montepaone, becaria de posgrado de CONICET, 2014-2019.
María José Iglesias, becaria posdoctoral FONCYT, 2014-2016.
Mariana Semmoloni, becaria de posgrado de CONICET, 2015-2020.
Mauro Germán Murcia, becario posdoctoral CONICET, 2017-2019.
Antonela Belmonte, becaria doctoral FONCYT, 2018-2021

Dirección de investigadores

Teresa Alconada-Magliano. 1998-2001, Investigador asistente CONICET.
Gustavo Striker. 2010-2014. Investigador Asistente CONICET
Romina Sellaro. 2014-2019. Investigador Asistente CONICET.
Carlos Esteban Hernando. 2018 a la fecha. Investigador Asistente CONICET.

Dirección de tesis de grado

M.J. Yanovsky. Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Finalizada en 1993.
M.A. Mazzella. Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires. Finalizada en 1995.
J. Romero. Facultad de Agronomía, Universidad de Buenos Aires. Finalizada en 1995.
H. Boccalandro. Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires. Finalizada en 1996.
J.P. Lupi. Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires. Finalizada en 1996.
J. Wagmaister. Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires. Finalizada en 1997.
C. Ugarte. Facultad de Agronomía, Universidad de Buenos Aires. Finalizada en 2000.
L. Luccioni. Universidad CAECE. Finalizada en 2000.
M. C. Rossi, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires. Finalizada 2 de Marzo de 2005.
M. Crepy, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires. Finalizada Marzo de 2006.
J. Cagnola, Facultad de Agronomía, Universidad de Buenos Aires. Finalizada 25 de Marzo de 2008.
R. Neuwald, Facultad de Agronomía, Universidad de Buenos Aires. Finalizada 24 de Abril de 2009.
V. Moriconi, Universidad de Belgrano. Finalizada 2011.
S. García Chafuén, Facultad de Agronomía, Universidad de Buenos Aires. Finalizada Diciembre de 2011.
M. Semmoloni, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires. Finalizada en 2015.
Sofía Ines Poodts, Carrera de Ciencias Ambientales, Facultad de Agronomía, Universidad de Buenos Aires. Finalizada en 2017.
Luciana Bianchimano, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires. Finalizada en Enero de 2019.

Dirección de tesis doctorales

- 1) Marcelo J. Yanovsky, UBA. Aprobada, 9 Septiembre de 1999.
- 2) María Agustina Mazzella, UBA. Aprobada, 12 de Junio 2001.
- 3) Karina A. Oliverio, UBA. Aprobada, 2003.

- 4) Hernán Boccalandro, UBA. Aprobada, 2005.
 - 5) Julieta L. Mateos. UBA. Aprobada, 2006.
 - 6) Laura Luccioni, UBA. Aprobada, 2008.
 - 7) Santiago Ariel Trupkin. UBA. Aprobada, Marzo 2009
 - 8) Romina Sellaro, UBA. Aprobada, Marzo 2010.
 - 9) Elizabeth Karayekov, UBA. Aprobada, Abril 2010.
 - 10) María Crepy, UBA Aprobada, 28 de Marzo de 2011
 - 11) J. Cagnola, UBA. Aprobada, Octubre de 2013.
 - 12) M. Krzymuski, UBA. Aprobada, 10 de Junio de 2014.
 - 13) María José Rodríguez Battiller. Aprobada, 27 de Junio de 2014.
 - 14) O. Pucciarello, UBA. Aprobada, 31 de Marzo de 2017.
 - 15) M. Legris, UBA. Aprobada, 9 de Mayo de 2017.
 - 16) M. Pacín, UBA, Aprobada, 7 de Marzo de 2017.
 - 17) C. Costigliolo, UBA. Aprobada 28 de Febrero de 2019.
 - 18) Sofía Romero Montepaone, UBA. Aprobada, 28 de Mayo de 2019.
 - 19) Mariana Semmoloni, UBA. Aprobada, 10 de Septiembre de 2020.
- Ezequiel Pereyra, UN Mar del Plata. En curso.
 Antonela Belmonte, UBA. En curso.
 Luciana Bianchimano, UBA. En curso.

Co-dirección de tesis doctorales

- 1) Pablo D. Cerdán, UBA. Aprobada el 10 de Marzo de 1999. Director: R. J. Staneloni.
- 2) Gustavo Maddonni, UBA. Aprobada en 2002. Directora: M. E. Ottegui
- 3) Hernán Ghiglione, UBA, Facultad de Agronomía. Aprobada 26 de Marzo de 2010. Director: Alfredo Curá
- 4) M. López Pereira, UBA, Facultad de Agronomía. Aprobada el 26 de Febrero de 2015. Director: Antonio Hall

ACTIVIDAD EDITORIAL

- Editor Asociado de la revista PLANT JOURNAL (2005-present)
- Editor Asociado de la revista PLANT MOLECULAR BIOLOGY (2000-present)
- Miembro del Comité Editor de TRENDS IN PLANT SCIENCE (2009-present)
- Editor Asociado de la revista PHOTOCHEMICAL AND PHOTOBIOLOGICAL SCIENCES (2003-2013)
- Editor Asociado de la revista SPANISH JOURNAL OF AGRICULTURAL RESEARCH (2003-2012)
- Miembro del Comité Editor de la revista BMC Plant Biology (2005-2020)

ACTIVIDADES DE GESTIÓN

Facultad de Agronomía, Universidad de Buenos Aires

- Miembro suplente del Consejo Directivo de la Facultad de Agronomía, UBA, 2002-2006.
- Miembro de la Comisión Técnica Asesora 6 de la Universidad de Buenos Aires, 2002-2006.
- Miembro de la Subcomisión para Ficha de Investigación de la Comisión de la Facultad de Agronomía, UBA, para el proceso de acreditación del MEXA del MERCOSUR correspondiente a la Argentina. 2002.
- Miembro de la Junta departamental de Biología aplicada y Alimentos, 1999-2001.
- Miembro de la Comisión Curricular de la Facultad de Agronomía, UBA 1996-1997

CONICET

- Coordinador de la Junta de Calificación, 2016

- Coordinador alterno de la Junta de Calificación, 2015
- Miembro de la Junta de Calificación, 2014
- Miembro de la Comisión Asesora para la Promoción a la Categoría de Investigador Superior, 2013
- Coordinador de la Comisión Asesora de Ciencias Biológicas del CONICET, 2008.
- Miembro de la Comisión Asesora de Ciencias Biológicas del CONICET, 2007.
- Miembro de la Comisión ad-hoc para la evaluación de becas en el Area de Ciencias Biológicas y de la Salud, disciplina Biología, 2006. Resolución 2590/06
- Miembro de la Comisión ad-hoc del CONICET en el Area de Ciencias Agrarias, de la Ingeniería y Materiales, 2000-2002. Resolución 1549/00.
- Miembro de los Cuerpos Consultivos ad-hoc del CONICET en el Area de Ciencias Biológicas y de la Salud, disciplina Biología, 1998.

IFEVA

- Vice-Director de IFEVA, 2009-2019.
- Miembro del Directorio y Ejecutivo del IFEVA, 2004-2019.

ANPCYT

- Coordinador del área de Tecnología Agraria y Forestal, 2019

Otras actividades de gestión

- Representante por Argentina ante el *Multinational Arabidopsis Steering Committee* 2003-2014.
- Miembro del Comité Organizador (1998-2004) y miembro del Comité de Asesores Científicos (2005-2014) de *BA Plant Biology Lectures*.
- Miembro de comisiones de categorización o evaluación para el Plan de Incentivos Docentes, desde 1999.
- Jurado de los concursos "*Re-entry Grant*" de la Fundación Antorchas, 2003 y 2004.
- Jurado del concurso L'ORÉAL-UNESCO "Por las mujeres en la ciencia"

PRODUCCIÓN CIENTÍFICA

Publicaciones en revistas periódicas

- 1) Deregibus, V.A., Sánchez, R.A., Casal, J.J. 1983.
Effects of light quality on tiller production in *Lolium spp.* *Plant Physiology*, 72, 900-902.
- 2) Casal, J.J., Deregibus, V.A., Sánchez, R.A. 1984.
Influencia de la calidad de la luz sobre el macollaje de gramíneas forajeras. *Revista Argentina de Producción Animal*, 4, 279-288.
- 3) Casal, J.J., Deregibus, V.A., Sánchez, R.A. 1985.
Variations in tiller dynamics and morphology in *Lolium multiflorum* Lam vegetative and reproductive plants as affected by differences in red/far-red irradiation. *Annals of Botany*, 56, 553-559.
- 4) Deregibus, V.A., Sánchez, R.A., Casal, J.J., Trlica, M.J. 1985.
Tillering responses to enrichment of red light beneath the canopy in a humid natural grassland. *Journal of Applied Ecology*, 22, 199-206.
- 5) Casal, J.J., Sánchez, R.A., Deregibus, V.A. 1986.
The effect of plant density on tillering: The involvement of R/FR and the proportion of radiation intercepted per plant. *Environmental and Experimental Botany*, 26, 365-371.
- 6) Deregibus, V.A., Casal, J.J., Simone, F. 1986.
Efectos del pastoreo con altas cargas en pasturas invadidas por la gramilla (*Cynodon dactylon*). *Revista Argentina de Producción Animal*, 6, 689-694.

- 7) Casal, J.J., Sánchez, R.A., Deregibus, V.A. 1987.
The effect of light quality on shoot extension growth in three species of grasses. *Annals of Botany*, 59, 1-7.
- 8) Casal, J.J., Aphalo, P.J., Sánchez, R.A. 1987.
Phytochrome effects on leaf growth and chlorophyll content in *Petunia axillaris*. *Plant, Cell and Environment*, 10, 509-514.
- 9) Casal, J.J. Sánchez, R.A., Deregibus, V.A. 1987.
Tillering responses of *Lolium multiflorum* plants to changes of red/far-red ratio typical of sparse canopies. *Journal of Experimental Botany*, 38, 1432-1439.
- 10) Ballaré, C.L., Sánchez, R.A., Scopel, A.L., Casal, J.J., Ghera, C.M. 1987.
Early detection of neighbour plants by phytochrome perception of spectral changes in reflected sunlight. *Plant, Cell and Environment*, 10, 551-557.
- 11) Casal, J.J., Sadras, V.O., 1987.
Effects of end-of-day red/far-red ratio on growth and orientation of sunflower leaves. *Botanical Gazette*, 148, 463-467.
- 12) Casal, J.J. 1988.
Light quality effects on the appearance of tillers of different order in wheat (*Triticum aestivum*). *Annals of Applied Biology*, 112, 167-173.
- 13) Casal, J.J., Alvarez, M.A. 1988.
Blue light effects on the growth of *Lolium multiflorum* Lam leaves under natural radiation. *The New Phytologist*, 109, 41-45.
- 14) Casal, J.J., Smith, H. 1988.
Persistent effects of changes in phytochrome status on internode growth in light-grown mustard: Occurrence, kinetics and locus of perception. *Planta*, 175, 214-220.
- 15) Casal, J.J., Smith, H. 1988.
The loci of perception for phytochrome control of internode growth in light-grown mustard: Promotion by low phytochrome photoequilibria in the internode is enhanced by blue light perceived by the leaves. *Planta*, 176, 277-282.
- 16) Casal, J.J., Smith, H. 1989.
The "end-of-day" phytochrome control of internode elongation in mustard. Kinetics, interaction with the previous fluence rate and ecological implications. *Plant, Cell and Environment*, 12, 511-520.
- 17) Casal, J.J., Aphalo, P.J., 1989.
Phytochrome control of chlorophyll content in mature attached leaves of *Petunia axillaris*. *Annals of Botany*, 63, 595-598.
- 18) Casal, J.J., Smith, H. 1989.
Effects of blue light pretreatments on internode extension growth in mustard seedlings after the transition to darkness. Analysis of the interaction with phytochrome. *Journal of Experimental Botany* 40, 893-899.
- 19) Casal, J.J., Smith, H. 1989.
The function, action and adaptive significance of phytochrome in light-grown plants. *Plant, Cell and Environment* 12, 855-862.
- 20) Smith, H., Casal, J.J., Jackson, G.M. 1990
Reflection signals and the perception by phytochrome of the proximity of neighbouring vegetation. *Plant, Cell and Environment* 13, 73-78

- 21) Casal, J.J., Whitelam, G.C., Smith, H. 1990
Phytochrome control of extracellular peroxidase activity in mustard internodes: Correlation with growth, and comparison with the effect of wounding. *Photochemistry and Photobiology* 52, 165-172
- 22) Casal, J.J., Whitelam, G.C., Smith, H. 1990
Phytochrome effects on the relationship between chlorophyll and steady-state levels of thylakoid polypeptides in light-grown tobacco. *Plant Physiology* 94, 370-374
- 23) Casal, J.J., Sánchez, R.A., Gibson, D. 1990.
The significance of changes in the red/far-red ratio associated either to neighbour plants or to twilight for tillering in *Lolium multiflorum* Lam. *The New Phytologist* 116, 565-572
- 24) Casal, J.J., Sánchez, R.A., Di Benedetto, De Miguel, L.C. 1991.
Light promotion of seed germination in *Datura ferox* is mediated by a highly stable pool of phytochrome. *Photochemistry and Photobiology* 53, 249-254
- 25) Ballaré, C.L., Casal, J.J., Kendrick, R.E. 1991.
Responses of light-grown wild-type and long hypocotyl mutant cucumber seedlings to natural and simulated shade light. *Photochemistry and Photobiology* 54, 819-826.
- 26) Gibson, D., Casal, J.J., Deregibus, V.A. 1992.
The effects of plant density on shoot and leaf angles in *Lolium multiflorum* and *Paspalum dilatatum*. *Annals of Botany* 70, 69-73.
- 27) Casal, J.J., Sánchez, R.A. 1992.
Physiological relationships between phytochrome effects on internode extension growth and dry matter accumulation in light-grown mustard. *Photochemistry and Photobiology* 56, 571-578.
- 28) Casal, J.J. 1993.
Novel effects of phytochrome status on reproductive shoot growth in *Triticum aestivum* L. *The New Phytologist* 123, 45-51.
- 29) Casal, J.J., Kendrick, R.E. 1993.
Impaired phytochrome-mediated shade avoidance responses in the *aurea* mutant of tomato. *Plant, Cell and Environment* 16, 703-710.
- 30) Casal, J.J., Sánchez, R.A., Vierstra, R.D. 1994.
Avena phytochrome A overexpressed in transgenic tobacco seedlings differentially affects red/far-red reversible and very-low-fluence responses (cotyledon unfolding) during de-etiolation. *Planta* 192, 30-309.
- 31) Casal, J.J., Sánchez, R.A. 1994.
Overexpression of oat phytochrome A gene differentially affects stem growth responses to red/far-red ratio signals characteristic of sparse or dense canopies. *Plant, Cell and Environment* 17, 409-417.
- 32) Casal, J.J., Ballaré, C.L., Tourn, M., Sánchez, R.A. 1994.
Anatomy, growth and survival of a long-hypocotyl mutant of *Cucumis sativus* deficient in phytochrome B. *Annals of Botany* 73, 569-575.
- 33) Casal, J. J. 1994.
Stem extension-growth responses to blue-light require Pfr in tomato seedlings but are not reduced by the low phytochrome levels of the *aurea* mutant. *Physiologia Plantarum* 91, 263-267.
- 34) Casal, J.J., Sánchez, R. A. 1994.

Impaired stem-growth responses to blue-light irradiance in light-grown transgenic tobacco seedlings overexpressing *Avena* phytochrome A. *Physiologia Plantarum* 91, 268-272.

35) Deregibus, V.A., Casal, J.J., Jacobo, E.J., Gibson, D., Kauffman, M., Rodriguez, A. M. 1994. Evidence that heavy grazing may promote the germination of *Lolium multiflorum* seeds via phytochrome-mediated perception of high red/far red ratios. *Functional Ecology* 8, 536-542.

36) Ghera, C.M., Martinez-Ghera, M.A., Casal, J.J., Kaufman, M., Roush, M.L., Deregibus, V.A. 1994. Effect of light on winter wheat (*Triticum aestivum*) and Italian ryegrass (*Lolium multiflorum*) competition. *Weed Technology* 8, 37-45.

37) Casal, J.J., Mella, R.A., Ballaré, C.L., Maldonado, S. 1994. Phytochrome-mediated effects on extracellular peroxidase activity, lignin content and bending resistance in etiolated *Vicia faba* epicotyls. *Physiologia Plantarum* 92, 555-562.

38) Casal, J.J. 1995. Coupling of phytochrome B to the control of hypocotyl growth in *Arabidopsis*. *Planta* 196, 23-29.

39) Botto, J.F., Sánchez, R.A., Casal, J.J. 1995. Role of phytochrome B in the induction of seed germination by light in *Arabidopsis thaliana*. *Journal of Plant Physiology* 146, 307-312.

40) Casal, J.J., Sánchez, R.A., Paganelli-Blau, A.R., Izaguirre, M. 1995. Phytochrome effects on stem carbon gain in light-grown mustard seedlings are not simply the result of stem extension-growth responses. *Physiologia Plantarum* 94, 187-196

41) Yanovsky, M.J., Casal, J.J., Whitelam, G.C. 1995. Phytochrome A, Phytochrome B and HY4 are involved in hypocotyl-growth responses to natural radiation in *Arabidopsis*. Weak de-etiolation of the *phyA* mutant under dense canopies. *Plant, Cell and Environment* 18, 788-794

42) Yanovsky, M.J., Casal, J.J., Salerno, G.L., Sánchez, R.A. 1995. Are phytochrome-mediated effects on leaf growth, carbon partitioning and extractable sucrose-phosphate synthase activity the mere consequence of stem-growth responses in light-grown mustard? *Journal of Experimental Botany* 46, 753-757

43) Casal, J.J., Boccalandro, H. 1995. Co-action between phytochrome B and HY4 in *Arabidopsis*. *Planta* 197, 213-218

44) Casal, J.J., Sánchez, R.A., Boylan, M., Vierstra, R.D., Quail, P.H. 1995. Is the far-red absorbing form of *Avena* phytochrome A that is present at the end of the day able to sustain stem-growth inhibition during the night in transgenic tobacco and tomato seedlings? *Planta* 197, 225-232

45) Clough, R.C., Casal, J.J., Jordan, E.T., Christou, P., Vierstra, R.D. 1995. Expression of functional oat phytochrome A in transgenic rice. *Plant Physiology* 109, 1039-1045

46) Botto, J.F., Sánchez, R.A., Whitelam, G.C., Casal, J.J. 1996. Phytochrome A mediates the promotion of seed germination by very low fluences of light and canopy shade-light in *Arabidopsis*. *Plant Physiology* 110, 439-444.

47) Casal, J.J., Clough, R.C., Vierstra, R.D. 1996. High-irradiance responses induced by far-red light in grass seedlings of the wild type or overexpressing phytochrome A. *Planta* 200, 132-137

- 48) Casal, J.J. 1996.
Phytochrome A enhances the promotion of hypocotyl growth caused by reductions of phytochrome B Pfr levels in light-grown *Arabidopsis*. *Plant Physiology* 112, 965-973.
- 49) Cerdán, P.D., Staneloni, R.J., Casal, J.J., Sánchez, R.A. 1997
A 146 bp fragment of the tobacco *Lhcb1*2* promoter confers very low fluence, low-fluence and high-irradiance responses of phytochrome to a minimal CaMV 35S promoter. *Plant Molecular Biology* 33, 245-255.
- 50) Mazzella, M.A., Alconada Magliano, T.M., Casal, J.J. 1997
Dual effect of phytochrome A on hypocotyl growth under continuous red light. *Plant, Cell and Environment* 20, 261-268.
- 51) Casal, J.J., Sánchez, R.A., Yanovsky, M.J. 1997
The function of phytochrome A. *Plant, Cell and Environment* 20, 813-819.
- 52) Yanovsky, M.J., Casal, J.J., Luppi, J.P. 1997
The *VLF* loci, polymorphic between ecotypes Landsberg *erecta* and Columbia, dissect two branches of phytochrome signal transduction that correspond to very-low-fluence and high-irradiance responses. *Plant Journal* 12, 659-667.
- 53) Casal, J.J., Sánchez, R.A., Botto, J.F. 1998
Modes of action of phytochromes. *Journal of Experimental Botany* 49, 127-138.
- 54) Yanovsky, M.J., Alconada Magliano, M.T., Mazzella, M.A. Gatz, C., Thomas, B., Casal, J.J. 1998
Phytochrome A affects stem growth, anthocyanin synthesis, sucrose-phosphate-synthase activity and neighbour detection in sunlight-grown potato. *Planta* 205, 235-241.
- 55) Casal, J.J., Cerdán, P.D., Staneloni, R.J., Cattaneo, L. 1998
Different phototransduction kinetics of phytochrome A and phytochrome B in *Arabidopsis thaliana*. *Plant Physiology* 116, 1533-1538.
- 56) Casal, J.J., Mazzella, M.A. 1998
Conditional synergism between cryptochrome 1 and phytochrome B is evidenced by the analysis of *phyA*, *phyB* and *hy4* simple, double and triple mutants of *Arabidopsis*. *Plant Physiology* 118, 19-25.
- 57) Alconada Magliano, M.T., Casal, J.J. 1998
In vitro crosslinking of extensin precursors by mustard extracellular isoforms of peroxidase that respond either to phytochrome or to wounding. *Journal of Experimental Botany* 49, 1491-1499.
- 58) Casal, J.J., Sánchez, R.A. 1998
Phytocromes and seed germination. *Seed Science Research* 8, 317-329
- 59) Botto, J.F., Sánchez, R.A., Casal, J.J. 1998
Burial conditions affect light responses of *Datura ferox* seeds. *Seed Science Research* 8, 423-429.
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