

Curriculum Vitae
FERNANDO VALLADARES

• **Personal information**

Date of Birth: September , 1965; Place of Birth: Buenos Aires, Argentina
Nationality: Spanish; Passport number: 50819099-R

• **Address**

Museo Nacional de Ciencias Naturales. CSIC
Serrano 115 dpdo.
E-28006 Madrid , Spain. Phone: 34 1 7452500 ext 1 204. Fax: 34 1 5640800
E-mail valladares@ccma.csic.es
Web page: www.valladares.info

• **Education**

A.A. High School La Estrella, Madrid (Spain), 1983
B.S. Plant Biology, Universidad Complutense de Madrid (Spain), 1988
M.S. Lichen Ecology, Universidad Complutense de Madrid (Spain), 1990
Ph.D. Lichen Biology and Ecophysiology, Universidad Complutense de Madrid (Spain), 1993

• **Positions Held**

Predocctoral Fellow, Spanish Ministry of Education and Science, CSIC, Madrid, Spain, 1988-1992
Associate Professor, Plant Biology, Universidad Autónoma de Madrid, 1993
Postdoctoral Fellow, Plant Biology, University of California, Davis, USA, 1994-1995
Visiting Scientist, Plant Ecology and Physiology, Smithsonian Institution, USA-Panama, 1995-1996
Associate Researcher, Plant Ecology, Universidad Complutense de Madrid, 1996
Associate Researcher, Plant Ecology and Evolution, CSIC, Madrid, 1997-1999
Researcher (staff scientist), Plant Ecology, CSIC, Madrid, 1999-2004
Vicedirector of Centre of Environmental Sciences, CSIC, Madrid, 2001-2005
Chair of the Department of Plant Physiology and Ecology (CCMA, CSIC), Madrid 2005-2009
Senior Researcher (staff scientist), Plant Ecology, CSIC, Madrid, 2004- 2008
Associate Professor, (part time position), Plant Ecology, Universidad Rey Juan Carlos, Madrid, 2005-present
Research Professor CSIC, (full time position), 2008-present
President of the Spanish Association for Terrestrial Ecology 2006-present

• **Honors**

International Award for Young European Scientists, Botany, MEC-Príncipe de Asturias, 1985
Extraordinary Award for M.S., UCM, Spain, 1991
Extraordinary Award for Ph.D., UCM, Spain, 1994
Mason E. Hale International Award for Ph.D., Vancouver, Canada, 1994

• **Society Memberships**

Ecological Society of America (ESA)
International Association for Ecology (IAE)
British Ecological Society (BES)
Asociación Española de Ecología Terrestre (AEET, Spanish Association for Terrestrial Ecology)
Sociedad Española de Fisiología Vegetal (FESV, Spanish Society of Plant Physiology)
Sociedad Española de Ciencias Forestales (SECF, Spanish Society of Forestry Sciences)

• **Main research topics**

- Plant physiological ecology in a global change scenario.
- Light as an ecological and evolutionary factor
- Phenotypic plasticity vs phenotypic stability in changing environments
- Forest ecology, with particular interest in Mediterranean shrublands and forests
- Restoration ecology in Mediterranean-type ecosystems

PUBLICATIONS

(full list and reprints at <http://www.valladares.info/Eng/publicaciones-documentos.htm>)

• Selected publications (from more than 200 articles, books, and book chapters)

- VALLADARES, F. & PEARCY, R.W. 1997. Interactions between water stress, sun-shade acclimation, heat tolerance and photoinhibition in the sclerophyll *Heteromeles arbutifolia*. *Plant, Cell and Environment* 20: 25-36.
- VALLADARES, F., S. J. WRIGHT, E. LASSO, K. KITAJIMA AND R. W. PEARCY. 2000. Plastic phenotypic response to light of 16 congeneric shrubs from a Panamanian rainforest. *Ecology* 81: 1925-1936.
- VALLADARES, F., E. MARTINEZ-FERRI, L. BALAGUER, E. PEREZ-CORONA & E. MANRIQUE. 2000. Low leaf-level response to light and nutrients in Mediterranean evergreen oaks: a conservative resource-use strategy? *New Phytologist* 148: 79-91
- VALLADARES, F., GIANOLI, E. & GÓMEZ, J.M. 2007. Ecological limits to plant phenotypic plasticity. *Tansley Review. New Phytologist* 176: 749-763.
- VALLADARES, F. & NIINEMETS, Ü. 2008. Shade tolerance, a key plant trait of complex nature and consequences. *Annual Review of Ecology, Systematics and Evolution* 39: 237-257.

• Recent publications (last 5 years)

- MAESTRE, F. T., F. VALLADARES, AND J. F. REYNOLDS. 2006. The stress-gradient hypothesis does not fit all relationships between plant-plant interactions and abiotic stress: further insights from arid environments. *Journal of Ecology* 94: 17-22.
- RICHARD J. HOBBS, SALVATORE ARICO, JAMES ARONSON, JILL S. BARON, PETER BRIDGEWATER, VIKI A. CRAMER, PAUL R. EPSTEIN, JOHN J. EWEL, CARLOS A. KLINK, ARIEL E. LUGO, DAVID NORTON, DENNIS OJIMA, DAVID RICHARDSON, ERIC W. SANDERSON, FERNANDO VALLADARES, MONTSERRAT VILÀ, REGINO ZAMORA, MARTIN ZOBEL. 2006. Emerging ecosystems: theoretical and management aspects of the new ecological world order. *Global Ecology and Biodiversity* 15:1-7.
- SÁNCHEZ-GÓMEZ, D, VALLADARES, F, & ZAVALA, MA. 2006 Performance of seedlings of Mediterranean woody species under experimental gradients of irradiance and water availability: trade-offs and evidence for niche differentiation. *New Phytologist* 170: 795-806.
- MATESANZ, S., F. VALLADARES, DAVID TENA, M. COSTA-TENORIO Y D. BOTE. 2006. Early dynamics of plant communities in revegetated motorway slopes from southern Spain: is hydroseeding always needed? *Restoration Ecology* 14:297-307.
- GÓMEZ-APARICIO, L, VALLADARES, F, ZAMORA, R. 2006. Differential light responses of Mediterranean tree saplings: linking ecophysiology with regeneration niche in four co-occurring species. *Tree Physiology* 26: 947-958
- VALLADARES, F., & B. GUZMÁN-ASENJO. 2006. Canopy structure and spatial heterogeneity of light in two understory layers of an abandoned Holm oak forest. *Annals of Forest Science* 63: 1-13.
- ESTESO-MARTÍNEZ, J., F. VALLADARES, J. J. CAMARERO, & E. GIL-PELEGRÍN. 2006. Crown architecture and leaf habit are associated with intrinsically different light-harvesting efficiencies in *Quercus* seedlings from contrasting habitats. *Annals of Forest Science* (in press)
- SÁNCHEZ-GÓMEZ, D., F. VALLADARES & M. A. ZAVALA. 2006. Functional traits and plasticity underlying shade tolerance in seedlings of four Iberian forest tree species. *Tree Physiology* 26: 1425-1433.
- NIINEMETS, U., & F. VALLADARES. 2006 Tolerance to shade, drought and waterlogging of temperate, Northern hemisphere trees and shrubs. *Ecological Monographs* 76: 521-547
- VALLADARES F, & SÁNCHEZ-GÓMEZ D. 2006 Ecophysiological traits associated with drought in Mediterranean tree seedlings: individual responses versus interspecific trends in eleven species. *Plant Biology* 8: 688-697.
- SÁNCHEZ-GÓMEZ, D., M. A. ZAVALA, & F. VALLADARES. 2006. Survival responses to irradiance are differentially influenced by drought in seedlings of forest tree species of the temperate-Mediterranean transition zone. *Acta Oecologica* 30: 322-332.
- RAMÍREZ, D. A., F. VALLADARES, A. BLASCO Y J. BELLOT. 2006 Scaling up transpiration in tussock grass *Stipa tenacissima* L.: The complex interplay between morphology and physiology. *Acta Oecologica* 30: 386-398.
- NIINEMETS, U., & F. VALLADARES. 2006 Tolerance to shade, drought and waterlogging of temperate, Northern hemisphere trees and shrubs. *Ecological Monographs* 76: 521-547
- ESTESO-MARTÍNEZ, J., F. VALLADARES, J. J. CAMARERO, & E. GIL-PELEGRÍN. 2006. Crown architecture and leaf habit are associated with intrinsically different light-harvesting efficiencies in *Quercus* seedlings from contrasting environments. *Annals of Forest Science* 63:511-518.
- BELINCHÓN, R. MARTÍNEZ, I., ESCUDERO, A. ARAGÓN, G. & VALLADARES, F. 2007. Edge effects on epiphytic communities in a Mediterranean *Quercus pyrenaica* forest. *Journal of Vegetation Science* 18: 81-90.

- MATESANZ, S. & F. VALLADARES. 2007. Improving revegetation of gypsum slopes is not a simple matter of adding autochthonous species: insights from a multispecies experiment. *Ecological Engineering* 30: 67-77.
- SANZ-PEREZ, V., CASTRO-DIEZ, P., & VALLADARES, F. 2007. Growth versus storage: responses of Mediterranean oak seedlings to changes in nutrient and water availabilities. *Annals of Forest Science* 64 (2): 201-210.
- PUERTA-PIÑERO, C., J. M. GÓMEZ, AND F. VALLADARES. 2007. Irradiance and oak seedling survival and growth in a heterogeneous environment. *Forest Ecology and Management* 242:462-469.
- ZARAGOZA-CASTELLS, J., SÁNCHEZ-GÓMEZ, D., VALLADARES, F., HURRY, V., & ATKIN, O.K. 2007. Does growth irradiance affect temperature-dependence and thermal acclimation of leaf respiration? Insights from a Mediterranean tree with long-lived leaves. *Plant Cell and Environment* 30: 820-833.
- MAESTRE, F. T., J. L. QUERO, F. VALLADARES, AND J. F. REYNOLDS. 2007. Individual vs. population plastic responses to elevated CO₂, nutrient availability and heterogeneity: a microcosm experiment with co-occurring species. *Plant and Soil* 296:53-64.
- VALLADARES, F. & GIANOLI, E. 2007. How much ecology do we need to know to restore Mediterranean ecosystems? *Restoration Ecology* 15: 363-368.
- NIINEMETS, U., A. PORTSMUTH, D. TENA, M. TOBIAS, S. MATESANZ & F. VALLADARES. 2007. Do we underestimate the importance of leaf size in plant economics? Disproportional scaling of support costs within the spectrum of leaf physiognomy. *Annals of Botany* 100: 283-303.
- ROYER, D. L., L. SACK, P. WILF, C. H. LUSK, G. J. JORDAN, Ü. NIINEMETS, I. J. WRIGHT, M. WESTOBY, B. CARIGLINO, P. D. COLEY, A. D. CUTTER, K. R. JOHNSON, C. C. LABANDEIRA, A. T. MOLES, M. B. PALMER, AND F. VALLADARES. 2007. Economics of ancient terrestrial ecosystems quantified from fossil leaves. *Paleobiology* 33: 574-589¹
- VALLADARES, F., GIANOLI, E. & GÓMEZ, J.M. 2007. Ecological limits to plant phenotypic plasticity. *Tansley Review. New Phytologist* 176: 749-763.
- MARTÍNEZ-ALONSO, C., F. VALLADARES, LÓPEZ ARIAS, M., SERRANO, M., CAMARERO, J.J. & RODRÍGUEZ, J.A. 2007. Influence of intradecadal climate variability on canopy dynamics, secondary growth and cone production in an old-growth Scots pine forest under Mediterranean conditions. *Forest Ecology and Management* 253: 19-29.
- PUGNAIRE, F. & F. VALLADARES, (editors). 2007. *Functional plant ecology*. CRC publishers. 560 pp.
- ARAGON, C., ESCUDERO, A. & VALLADARES, F. 2008. Reproduction under summer drought conditions in a semiarid environment: timing of stress does matter. *Journal of Ecology* 96: 222-229.
- QUILCHANO, C., MARAÑÓN, T., PEREZ-RAMOS, I.M., NOEJOVICH, L., VALLADARES, F. & ZAVALA, M.A. 2008. Patterns and ecological consequences of abiotic heterogeneity in managed cork-oak forests of Southern Spain. *Ecological Research* 23: 127-139.
- ZARAGOZA-CASTELLS, J., SÁNCHEZ-GÓMEZ, D., HARTLEY, I.P., MATESANZ, S., VALLADARES, F., LLOYD, J. & ATKIN, O.K. 2008. Climate-dependent variations in leaf respiration in a dry-land, low productivity forest ecosystem: the importance of acclimation in both high-light and shaded habitats. *Functional Ecology* 22: 172-184.
- TRAVESET, A. MORAGUES, E., & F. VALLADARES. 2008. Good performance in both sun and shade habitats leads to the spreading of invasive *Carpobrotus* spp. on Mediterranean ecosystems. *Applied Vegetation Science* 11: 45-54.
- VALLADARES, F., TENA, D., MATESANZ, S., BOCHET, E., BALAGUER, L., COSTA-TENORIO, M., TORMO, J., & GARCÍA-FAYOS, P. 2008. Functional traits and phylogeny: inferring the main ecological process that determines species assemblage in roadside herbaceous communities. *Journal of Vegetation Science* 19: 381-392.
- PÉREZ-RAMOS, I. M., M. A. ZAVALA, T. MARAÑÓN, M. D. DÍAZ-VILLA, AND F. VALLADARES. 2008. Dynamics of understorey herbaceous plant diversity following shrub clearing of cork oak forests: a five-year study. *Forest Ecology and Management* 255: 3242-3253.
- RAMÍREZ, D. A., F. VALLADARES, A. BLASCO & J. BELLOT. 2008. Effects of tussock size and soil water content on whole plant gas exchange in *Stipa tenacissima* L: Extrapolating from the leaf versus modelling crown architecture. *Environmental and Experimental Botany* 62: 376-388.
- ARANDA, I. T. MATTHEW ROBSON, J. RODRÍGUEZ-CALCERRADA & F. VALLADARES. 2008. Limited capacity to cope with excessive light in the open and with increased drought in the shade in Mediterranean *Ilex aquifolium* populations. *Trees Structure and Function* 22:375-384.
- MATESANZ, S. ESCUDERO, A. & VALLADARES, F. 2008. Additive effects of an invasive grass and water stress on the performance of gypsum plants under experimental conditions. *Applied Vegetation Science* 11: 287-296
- RAMÍREZ, D.A., F. VALLADARES, F. DOMINGO & J. BELLOT. 2008. Seasonal water-use efficiency and chlorophyll fluorescence response in Alpha grass (*Stipa tenacissima* L.) is affected by tussock size. *Photosynthetica* 46: 222-231.
- PULIDO, F, VALLADARES, F., CALLEJA, J.A., MORENO, G. & GONZÁLEZ-BORNAY, G. 2008. Paleotropical

¹ Article highlighted in Science 23 NOV. 2007 VOL 318 p. 1218

- relict trees coping with increasingly dry Mediterranean summers: interactive effects of irradiance and moisture on performance of *Prunus lusitanica* seedlings. *Journal of Biogeography* 35: 1425–1435.
- VILLAR-SALVADOR, P., F. VALLADARES, S. DOMÍNGUEZ-LERENA, M. DE LAS HERAS, M. FERNÁNDEZ-PASCUAL, A. DELGADO & J.L. PEÑUELAS RUBIRA. 2008. Functional traits related to seedling performance in the Mediterranean leguminous shrub *Retama sphaerocarpa*: Insights from a provenance, fertilization, and rhizobial inoculation study, *Environmental and Experimental Botany* 64: 145–154.
- RINCÓN, ANA, FERNANDO VALLADARES, TERESA E. GIMENO, JOSÉ J. PUEYO 2008. Water stress responses of two Mediterranean tree species influenced by native soil microorganisms and inoculation with a plant growth promoting rhizobacterium. *Tree Physiology* 28: 1693–1701
- VALLADARES, F. 2008. A mechanistic view of the capacity of forest to cope with climate change. En: F. Bravo, V. Le May, R. Jandl, Klaus von Gadow (Eds.), *Managing Forest Ecosystems: the challenge of climate change*. Springer Verlag, Berlin.
- SÁNCHEZ-GÓMEZ, D., F. VALLADARES, & M. A. ZAVALA. 2008. Interspecific variation of seedling biomass allocation, morphology and plasticity in response to irradiance and water availability: towards a mechanistic understanding of shade and drought tolerances in Mediterranean plants. *Annals of Forest Science* 65: 605-702.
- DE LA BANDERA, M.C., TRAVESET, A., VALLADARES, F. & GULÍAS, J. 2008. Gender, season and habitat: patterns of variation in photosynthetic activity, growth and fecundity in *Thymelaea velutina*. *Acta Oecologica* 34: 294 – 302.
- BAQUEDANO, F. J., F. VALLADARES, & F. J. CASTILLO. 2008. Phenotypic plasticity blurs ecotypic divergence in the response of *Quercus coccifera* and *Pinus halepensis* to water stress. *European Journal of Forestry* 127: **495-506**
- VALLADARES, F., J. ZARAGOZA-CASTELLS, D. SÁNCHEZ-GÓMEZ, S. MATESANZ, B. ALONSO, A. PORTSMUTH, A. DELGADO, & O. K. ATKIN. 2008. Is shade beneficial for Mediterranean shrubs experiencing periods of extreme drought and late-winter frosts? *Annals of Botany* 102: 923–933.
- SANZ-PEREZ, V., CASTRO-DIEZ, P., & VALLADARES, F. 2009. Differential and interactive effects of temperature and photoperiod on budburst of two co-occurring Mediterranean oaks. *Plant Biology* 11:142-151
- MAESTRE, F.T., CALLAWAY, R.M., VALLADARES, F. & LORTIE, C.J.. 2009. Refining the stress-gradient hypothesis for competition and facilitation in plant communities. *Journal of Ecology* 97: 199-205
- GODOY, OSCAR DAVID M. RICHARDSON, FERNANDO VALLADARES & PILAR CASTRO-DÍEZ. 2009. Displacement of flowering phenology in invasive alien plant species in three mediterranean-type ecosystems. *Annals of Botany* 103: 485-494
- MATESANZ, S., R. W. BROOKER, F. VALLADARES, & S. KLOTZ. 2009. Effects of long-term climate change on marginal steppic vegetation: from the community to the species. *Journal of Vegetation Science* 20: 299–310.
- RAMÍREZ-VALIENTE, J. A. VALLADARES, F.; GIL, L. & ARANDA, I.; 2009. Population differences in juvenile survival under increasing drought are mediated by seed size in cork oak (*Quercus suber* L.). *Forest Ecology and Management*. 257: 1676-1683.
- MATESANZ S, VALLADARES F, ESCUDERO A. 2009. Functional ecology of a narrow endemic plant and a widespread congener from semiarid Spain. *Journal of Arid Environments* 73: 784-794.
- DURANTE, P., OYONARTE, C. & VALLADARES, F. 2009. Influence of management and climate on the seasonal pattern of NDVI in Mediterranean ecosystems. *Applied Vegetation Science* 12: 177-185.
- GIMENO, T.E., PIAS, B., J.P. LEMOS-FILHO & VALLADARES, F. 2009. Plasticity and stress tolerance override local adaptation in the responses of Mediterranean Holm oak seedlings to drought and cold. *Tree Physiology* 29, 87–98.
- SÁNCHEZ-GÓMEZ, D., ZAVALA, M.A., DAAN VAN SCHALKWIJK, RODRÍGUEZ URBIETA, I. VALLADARES, F. 2009. Rank reversals in tree growth along tree size, competition and climatic gradients for four forest canopy dominant species in Central Spain. *Annals of Forest Science* 65: DOI: 10.1051/forest:2008040
- GODOY, P. CASTRO-DIEZ, F. VALLADARES & M. COSTA-TENORIO. 2009. Different flowering phenology of alien invasive species in Spain: evidence for the use of an empty temporal niche?. *Plant Biology* 11: 803-811.
- MATESANZ, S., ESCUDERO, A. & VALLADARES, F. 2009. Influence of three global change drivers on a Mediterranean shrub. *Ecology* 90: 2609–2621.
- RAMÍREZ-VALIENTE, J.A., LORENZO, Z., SOTO, A., VALLADARES F.; GIL, ARANDA, I. 2009. Elucidating the role of genetic drift and directional natural selection in genetic differentiation of cork oak (*Quercus suber* L.). *Molecular Ecology* 18: 3803-3815
- PAILLET, Y, L. BERGÈS, J. HJÁLTÉN, P. ÓDOR, C. AVON, M. BERNHARDT-RÖMERMANN, R.J. BIJLSMA, L. DE BRUYN, M. FUHR, U. GRANDIN, R. KANKA, L. LUNDIN, S. LUQUE, T. MAGURA, S. MATESANZ, M.T. SEBASTIÀ, W. SCHMIDT, T. STANDOVÁR, B. TÓTHMÉRÉSZ, A. UOTILA, F. VALLADARES, K. VELLAK, R. VIRTANEN. 2010. Does biodiversity differ between managed and unmanaged forests? A meta-analysis on species richness in Europe. *Conservation Biology* 24: 101-112
- GIANOLI, E. SALDAÑA, A. JIMÉNEZ-CASTILLO, M. VALLADARES, F. 2010. Distribution and abundance of vines along the light gradient in a southern temperate rainforest. *Journal of Vegetation Science* 21: 66–73.
- GODOY, O. P. CASTRO-DÍEZ, R.S.P. VAN LOGTESTIJN, J. H.C. CORNELISSEN & F. VALLADARES. 2010.

- Leaf litter traits of invasive alien species slow down decomposition compared to Spanish natives: a broad phylogenetic comparison *Oecologia* 162:781–790, DOI 10.1007/s00442-009-1512-9
- GIMENO, T.E., K.E. SOMMERVILLE, F. VALLADARES, & O.K. ATKIN. 2010. Homeostasis of respiration under drought and its important consequences for carbon balance in a drier climate: insights from two contrasting *Acacia* species. *Functional Plant Biology* 37, 323–333.
- PEMÁN, J., J.J. PEGUERO-PINA, F. VALLADARES & E. GIL-PELEGRÍN. 2010. Evaluation of unventilated treeshelters in the context of Mediterranean climate: Insights from a study on *Quercus faginea* seedlings assessed with a 3D architectural plant model. *Ecological Engineering* 36: 517–526. doi:10.1016/j.ecoleng.2009.11.021
- RESCO, V. J. I. QUEREJETA, K. OGLE, J. VOLTAS, M.T. SEBASTIÀ, P. SERRANO-ORTIZ, J.C. LINARES, C. MORENO-GUTIÉRREZ, A. HERRERO, J.A. CARREIRA, P. TORRES-CAÑABATE & F. VALLADARES. 2010. Stable isotope views on ecosystem function: challenging or challenged. *Biology Letters* 6: 287–289. doi: 10.1098/rsbl.2009.0950
- RAMÍREZ-VALIENTE, J.A., SANCHEZ-GOMEZ, D., ARANDA, I., VALLADARES F. 2010. Phenotypic plasticity versus local adaptation for leaf ecophysiological traits in thirteen contrasting cork oak populations under varying water availabilities. *Tree Physiology* 30: 618–627 doi:10.1093/treephys/tpq013
- ESTESO-MARTÍNEZ, J., J.J. PEGUERO-PINA, F. VALLADARES, F. MORALES & E. GIL-PELEGRÍN. 2010. Self-shading in cork oak seedlings: Functional implications in heterogeneous light environments. *Acta Oecologica* 36: 423-430
- RAMÍREZ-VALIENTE, J.A., Z. LORENZO, A. SOTO, F. VALLADARES, L. GIL & I. ARANDA. 2010. Natural selection on cork oak: allele frequency reveals divergent selection in cork oak populations along a temperature cline. *Evolutionary Ecology* 24:1031–1044
- VALIENTE-BANUET, A., VERDÚ, M., VALLADARES, F. & GARCÍA-FAYOS, P. 2010. Functional and evolutionary correlations of steep leaf angles in the mexical shrubland. *Oecologia* 163: 25-33 DOI 10.1007/s00442-009-1520-9
- DOBARRO, I. PECO, B & VALLADARES, F. 2010. Light quality and not quantity segregates germination of grazing increasers from decreaseers in Mediterranean grasslands. *Acta Oecologica* 36: 74-79. doi:10.1016/j.actao.2009.10.005
- PAILLET, Y, L. BERGÈS, J. HJÄLTÉN, P. ÓDOR, C. AVON, M. BERNHARDT-RÖMERMANN, R.J. BIJLSMA, L. DE BRUYN, M. FUHR, U. GRANDIN, R. KANKA, L. LUNDIN, S. LUQUE, T. MAGURA, S. MATESANZ, M.T. SEBASTIÀ, W. SCHMIDT, T. STANDOVÁR, B. TÓTHMÉRÉSZ, A. UOTILA, F. VALLADARES, K. VELLAK, R. VIRTANEN. 2010. Biodiversity in managed and unmanaged forests: compromises in data selection for meta-analysis do not mean compromised results. Reply to Halme et al. *Conservation Biology* 24: 1157–1160
- MATESANZ, S., GIANOLI, E. & VALLADARES, F. 2010. Global change and the evolution of phenotypic plasticity in plants. *Annals of the New York Academy of Sciences*. Volume the Year on Evolutionary Biology. 1206: 35–55. doi: 10.1111/j.1749-6632.2010.05704.x
- PIAS, B., MATESANZ, S., ESCUDERO, A., GIMENO, T.E., & VALLADARES, F. 2010. Transgenerational effects of three global change drivers on an endemic Mediterranean plant. *Oikos* 119: 1435-1444. doi: 10.1111/j.1600-0706.2010.18232.x
- GARCÍA-PALACIOS, P, SOLIVERES, S., F. T. MAESTRE, A. ESCUDERO, A. P. CASTILLO-MONROY & F. VALLADARES. 2010. Dominant plant species modulate responses to hydroseeding, irrigation and fertilization during the restoration of semiarid motorway slopes. *Ecological Engineering* (In Press).
- RAMÍREZ-VALIENTE, J.A., F. VALLADARES, A. DELGADO, S. GRANADOS, I. ARANDA. 2011. Factors affecting cork oak growth under dry conditions: local adaptation and contrasting additive genetic variance intra-populations. *Tree Genetics and Genome* (In Press).
- BROOKER, R., S. MATESANZ, F. VALLADARES, & S. KLOTZ. 2011. Long-term influence of climate and species composition on spatial pattern in a semiarid plant Community. *Plant Ecology* (In Press)
- NICOTRA, A.B., O.K. ATKIN, S.P. BONSER, A.M. DAVIDSON, E.J. FINNEGAN, U. MATHESIUS, P. POOT, M.D. PURUGGANAN, C.L. RICHARDS, F. VALLADARES AND M. VAN KLEUNEN. 2011. Plant phenotypic plasticity in a changing climate. *Trends in Plant Science* (In Press) doi:10.1016/j.tplants.2010.09.008
- MATESANZ, S. T. E. GIMENO, M. DE LA CRUZ, A. ESCUDERO & F. VALLADARES. 2011. Competition may explain the fine-scale spatial patterns and genetic structure of two co-occurring plant congeners. *Journal of Ecology* (In Press)
- VALLADARES, F., SALDAÑA, A. & GIANOLI, E. 2011. Costs versus risks: architectural changes with changing light quantity and quality in saplings of temperate rainforest trees of different shade tolerance. *Austral Ecology* (In Press)
- GODOY, O., A. SALDAÑA, N. FUENTES, F. VALLADARES & E. GIANOLI. 2010. Forests are not immune to plant invasions: phenotypic plasticity and local adaptation allow *Prunella vulgaris* to colonize a temperate evergreen rainforest. *Biological Invasions* (In Press)
- VALLADARES, F., E. GIANOLI, & A. SALDAÑA. 2010. Climbing plants in a temperate rainforest understory:

searching for high light or coping with deep shade? *Annals of Botany* (In Press)

• **Scientific supervisor:**

- Visiting scientists and Postdoctoral students: Dr. Esther Bochet, Dr. Juan Olliet, Dr. Nair Buhavendran
- PhD students: David Sánchez-Gomez, David Tena, Inmaculada Santos, Celia Martínez Alonso, Silvia Matesanz, Oscar Godoy, Teresa Gimeno, Elena Granda, Jose Alberto Ramirez.
- Master thesis and initiation to research fellowships: Jose Manuel Chico, Javier Navarro, Libertad Gonzalez, Cristina García, Beatriz Guzman, Daniela Brites, David Caravaca, Beatriz Alonso, Daniel Bote, Beatriz García, Patrice Lombrail, Samuel Pineau, Christophe Beaujouan.

• **Scientific referee:**

- Member of the Editorial Review Board of *Oecologia*, *Tree Physiology* and *Restoration Ecology*
- Advisor for Scientific Grant evaluation in national programmes of Spain (ANEP), Austria (Fonds zur Förderung der wissenschaftlichen Forschung), Argentina (FONCYT) and United Kingdom (NERC)
- Referee of 54 international journals considered in SCI including *Ecology Letters*, *Ecology*, *New Phytologist*, *Journal of Ecology*, *Plant Cell and Environment*, *Functional Ecology* and *Oikos*.