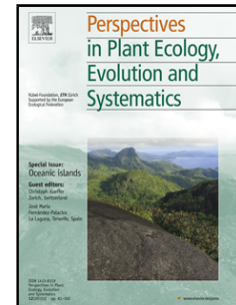


## Accepted Manuscript

Title: Shrubs mediate forest start-up and patch dynamics in a semiarid landscape

Authors: P Macek, C Schöb, F.I Pugnaire, M Núñez-Ávila, J.J Armesto



PII: S1433-8319(17)30110-5  
DOI: <https://doi.org/10.1016/j.ppees.2018.09.002>  
Reference: PPEES 25429

To appear in:

Received date: 14-6-2017  
Revised date: 31-8-2018  
Accepted date: 17-9-2018

Please cite this article as: Macek P, Schöb C, Pugnaire FI, Núñez-Ávila M, Armesto JJ, Shrubs mediate forest start-up and patch dynamics in a semiarid landscape, *Perspectives in Plant Ecology, Evolution and Systematics* (2018), <https://doi.org/10.1016/j.ppees.2018.09.002>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Shrubs mediate forest start-up and patch dynamics in a semiarid landscape

Running title: Plant interactions & forest dynamics

Macek P.<sup>1,2\*</sup>, Schöb C.<sup>3</sup>, Pugnaire F.I.<sup>2</sup>, Núñez-Ávila M.<sup>4,5</sup>, Armesto J.J.<sup>4,6</sup>

<sup>1</sup> Faculty of Science, University of South Bohemia, Branišovská 1760, CZ-37005 České Budějovice, Czech Republic

<sup>2</sup> LINCGlobal, Estación Experimental de Zonas Áridas, Consejo Superior de Investigaciones Científicas, Ctra. Sacramento s/n, 04120 La Cañada, Almería, Spain

<sup>3</sup> Department of Environmental Systems Science, Swiss Federal Institute of Technology, ETH Zurich, Tannenstrasse 1, CH-8092 Zürich, Switzerland

<sup>4</sup> LINCGlobal, Departamento de Ecología, Facultad Ciencias Biológicas, Pontificia Universidad Católica de Chile, Casilla 114-D, Santiago, Chile; Institute of Ecology and Biodiversity, Santiago, Chile.

<sup>5</sup> Departamento Manejo de Bosques y Medio Ambiente, Facultad de Ciencias Forestales, Universidad de Concepción, Victoria 631, Concepción, Chile

<sup>6</sup> Millennium Institute of Ecology and Biodiversity, Alameda 340, Santiago, Chile

\* Correspondence: P.M., Faculty of Science, University of South Bohemia, Na Zlaté stoce 3, CZ-37005 České Budějovice, Czech Republic; Tel.: +42 387776303; E-mail: maca@prf.jcu.cz

### **Highlights:**

- Plant-plant interactions drive forest patch initiation and dynamics
- Forest formation in this semiarid environment depend on fog water interception
- *Baccharis vernalis* shrubs facilitate tree establishment outside forest patches
- Facilitation-competition balance explains spatial pattern of the forest-shrub mosaic

Download English Version:

<https://daneshyari.com/en/article/11033374>

Download Persian Version:

<https://daneshyari.com/article/11033374>

[Daneshyari.com](https://daneshyari.com)