

Accepted Manuscript

Title: Relationships between mycorrhizal type and leaf flammability in the Australian flora

Authors: Jeff R. Powell, Rohan C. Riley, Will Cornwell

PII: S0031-4056(17)30078-1
DOI: <http://dx.doi.org/doi:10.1016/j.pedobi.2017.07.001>
Reference: PEDOBI 50504



To appear in:

Received date: 30-3-2017
Revised date: 26-6-2017
Accepted date: 4-7-2017

Please cite this article as: Powell, Jeff R., Riley, Rohan C., Cornwell, Will, Relationships between mycorrhizal type and leaf flammability in the Australian flora. *Pedobiologia - International Journal of Soil Biology* <http://dx.doi.org/10.1016/j.pedobi.2017.07.001>

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.

Relationships between mycorrhizal type and leaf flammability in the Australian flora

Jeff R. Powell

Hawkesbury Institute for the Environment, Western Sydney University

Locked Bag 1797, Penrith NSW 2751, Australia

Ph: +61 (0)2 4570 1093; Fx: +61 (0)2 4570 1103

jeff.powell@westernsydney.edu.au

Rohan C. Riley

Hawkesbury Institute for the Environment, Western Sydney University

Locked Bag 1797, Penrith NSW 2751, Australia

Will Cornwell

Evolution and Ecology Research Centre, School of Biological Earth and

Environmental Sciences, University of New South Wales, Sydney, New South

Wales 2052, Australia

Highlights

- Variation in morphological and chemical leaf traits is an important driver of fire regimes.
- Many leaf and root traits are likely to evolve in a coordinated fashion.
- Mycorrhizal type is a root trait that is also associated with variation in leaf traits.
- Arbuscular mycorrhizal plants, on average, express leaf traits that support rapid leaf ignition.
- Non-mycorrhizal and dual ecto- and arbuscular-mycorrhizal plants express leaf traits associated with longer burn duration.

Download English Version:

<https://daneshyari.com/en/article/8392584>

Download Persian Version:

<https://daneshyari.com/article/8392584>

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