

SPECIAL ISSUE

EDITORIAL NOTES

Exploratory workshop on diversity and function in ectomycorrhizal communities

J. Garbaye 1

REVIEW PAPERS

How metal-tolerant ecotypes of ectomycorrhizal fungi protect plants from heavy metal pollution

J.V. Colpaert · J.H. Wevers · E. Krznaric · K. Adriaensen 17

Enzyme secretion by ECM fungi and exploitation of mineral nutrients from soil organic matter

K. Pritsch · J. Garbaye 25

Diversity in phosphorus mobilisation and uptake in ectomycorrhizal fungi

C. Plassard · J. Louche · M.A. Ali · M. Duchemin · E. Legname · B. Cloutier-Hurteau 33

General principles in the community ecology of ectomycorrhizal fungi

R.T. Koide · C. Fernandez · K. Petprakob 45

Mycorrhizal mushroom diversity and productivity—an indicator of forest health?

S. Egli 81

ORIGINAL PAPERS

Species and functional diversity of ectomycorrhizal fungal communities on Scots pine (*Pinus sylvestris* L.) trees on three different sites

M. Rudawska · T. Leski · M. Stasińska 5

Ectomycorrhizal communities in a Mediterranean forest ecosystem dominated by *Quercus ilex*: seasonal dynamics and response to drought in the surface organic horizon

F. Richard · M. Roy · O. Shahin · C. Sthultz · M. Duchemin · R. Joffre · M.-A. Selosse 57

Secreted enzymatic activities of ectomycorrhizal fungi as a case study of functional diversity and functional redundancy

F. Rineau · P.-E. Courty 69

REGULAR ISSUE

ORIGINAL PAPERS

Spatio-temporal litterfall dynamics in a 60-year-old mixed deciduous forest

J. Staelens · L. Nachtergale · A. De Schrijver · M. Vanhellemont · K. Wuyts · K. Verheyen 89

Present and forecasted xeric climatic limits of beech and sessile oak distribution at low altitudes in Central Europe

B. Czucz · L. Gálhidy · C. Mátyás 99

What factors influence the stem taper of *Eucalyptus*: growth, environmental conditions, or genetics?

H.Y. Gomat · P. Deleporte · R. Moukini · G. Mialounguila · N. Ognouabi · A.R. Saya · P. Vigneron · L. Saint-Andre 109

Genetic variation and demographic contraction of the remnant populations of Mexican Caribbean pine (*Pinus caribaea* var. *hondurensis*: Pinaceae)

P. Delgado · D. Piñero · V. Rebollo · L. Jardón · F. Chi 121

Allocation of varietal testing efforts for implementing conifer multi-varietal forestry using white spruce as a model species

Y. Weng · Y.-S. Park · M.J. Krasowski · T.J. Mullin 129

Effect of long-phase stratification treatments on seed germination in ash

C.N. Doody · C. O'Reilly 139

A growth and yield model for even-aged *Pinus brutia* Ten. stands in Syria

Z. Shater · S. de-Miguel · B. Kraid · T. Pukkala · M. Palahí 149

**Low pre-death growth rates of oak (*Quercus robur* L.)—
Is oak death a long-term process induced
by dry years?**

M. Andersson · P. Milberg · K.-O. Bergman **159**

**Two-year dynamics of foliage labelling in 8-year-old
Pinus pinaster trees with ^{15}N , ^{26}Mg and ^{42}Ca —simulation
of Ca transport in xylem using an upscaling approach**

L. Augusto · B. Zeller · A.J. Midwood · C. Swanston ·
E. Dambrine · A. Schneider · A. Bosc **169**

**Molecular cytogenetics and flow cytometry reveal
conserved genome organization in *Pinus mugo*
and *P. uncinata***

F. Bogunić · S. Siljak-Yakovlev · E. Muratović · F. Pustahija ·
S. Medjedović **179**

**Climate/growth relationships in a *Pinus cembra*
high-elevation network in the Southern French Alps**
M. Saulnier · J.-L. Edouard · C. Corona · F. Guibal **189**

**Relationships between biochemical attributes
(non-structural carbohydrates and phenolics)
and natural durability against fungi in dry
teak wood (*Tectona grandis* L. f.)**

F.B. Niamké · N. Amusant · J.-P. Charpentier · G. Chaix ·
Y. Baissac · N. Boutahar · A.A. Adima · S. Kati-Coulibaly ·
C. Jay-Allemand **201**

Further articles can be found at www.springerlink.com

Abstracted/Index in BIOSIS, CAB Abstracts, CAB International, CSA, Current Abstracts, Current Contents/Agriculture, Biology & Environmental Sciences, EBSCO, Environment Index, Geobase, Google Scholar, IBIDS, OCLC, ProQuest, Science Citation Index, Science Citation Index Expanded (SciSearch), SCOPUS, Summon by Serial Solutions, Zoological Record.

Instructions for Authors for *Annals of Forest Science* are available at www.springer.com/13595.