ACTA UNIVERSITATIS AGRICULTURAE SUECIAE

Doctoral Thesis No. 2013:18

Ash dieback is an emerging disease on ash trees in Europe. This thesis

presents a phytotoxin, viridiol to be produced by the causative pathogen,

Hymenoscyphus pseudoalbidus, and show its harmful effect to ash cotyledons.

A molecular detection tool for the fungus was described. Molecular study of

the fungal population revealed a high gene-flow, signs of a founder effect

and indicated sexual recombination to occur. Disease symptoms emerged

and developed throughout the year, with most lesion activity during summer.

Stina Bengtsson, the author of this thesis received her graduate education

at the Department of Forest Mycology and Plant Pathology, SLU, Uppsala. Her

undergraduate degree is from Swedish University of Agricultural Sciences.

Acta Universitatis Agriculturae Sueciae presents doctoral theses from the

Swedish University of Agricultural Sciences (SLU).

SLU generates knowledge for the sustainable use of biological natural

resources. Research, education, extension, as well as environmental

monitoring and assessment are used to achieve this goal.

Online publication of thesis summary: http://epsilon.slu.se/eindex.html

ISSN 1652-6880

ISBN 978-91-576-7775-4

DOCTORAL THESIS NO. 2013:18
FACULTY OF NATURAL RESOURCES AND AGRICULTURAL SCIENCES

Dieback of Fraxinus excelsior

Biology of Ash Dieback and Genetic Variation of the Fungus *Hymenoscyphus pseudoalbidus*

• Dieback of Fraxinus excelsion

STINA BARBRO KATRIN BENGTSSON

