Understanding disease suppressive soils: molecular and chemical identification of microorganisms and mechanisms involved in soil suppressiveness to Fusarium culmorum of wheat

Ossowicki, A.S.

Understanding disease suppressive soils

Molecular and chemical identification of microorganisms and mechanisms involved in soil suppressiveness to Fusarium culmorum of wheat

Adam Stanisław Ossowicki

Promotoren

Prof.dr. J.M. Raaijmakers

Prof.dr. P. Garbeva (Netherlands Institute of Ecology; NIOO-KNAW)

Promotiecommissie

Prof.dr. G.P. van Wezel

Prof.dr.ir. T.M. Bezemer

Dr. D.E. Rozen

Prof. dr. G.B. de Deyn (Wageningen University and Research)

Prof. dr. G.A. Kowalchuk (Universiy of Utrecht)

Dr. M. Haubjerg Nicolaisen (University of Copenhagen)

Understanding disease suppressive soils

Molecular and chemical identification of microorganisms and mechanisms involved in soil suppressiveness to Fusarium culmorum of wheat

Proefschrift

ter verkrijging van

de graad van doctor aan de Universiteit Leiden,

op gezag van rector magnificus prof.dr.ir. H. Bijl,

volgens besluit van het college voor promoties

te verdedigen op dinsdag 1 Juni 2021

klokke 13.45 uur

door

Adam Stanisław Ossowicki

geboren te Gdynia, Polen

in 1988

Understanding disease suppressive soils: molecular and chemical identification of microorganisms and mechanisms involved in soil suppressiveness to Fusarium culmorum of wheat
The research described in this thesis was performed at the Department of Microbial Ecology, NIOO-KNAW, Wageningen, The Netherlands; Adam Ossowicki was supported by NWO ALWGR. 2015.1b grant.
Cover painting: Emma Lodes
Design: Adam Ossowicki
Printed by: Proefschriftmaken
This is NIOO Thesis Number 187
ISBN: 978-94-6423-290-5

The sky is not always blue, especially when it rains.

Nie zawsze niebo jest niebieskie, szczególnie kiedy pada deszcz.

T. Pełczyński

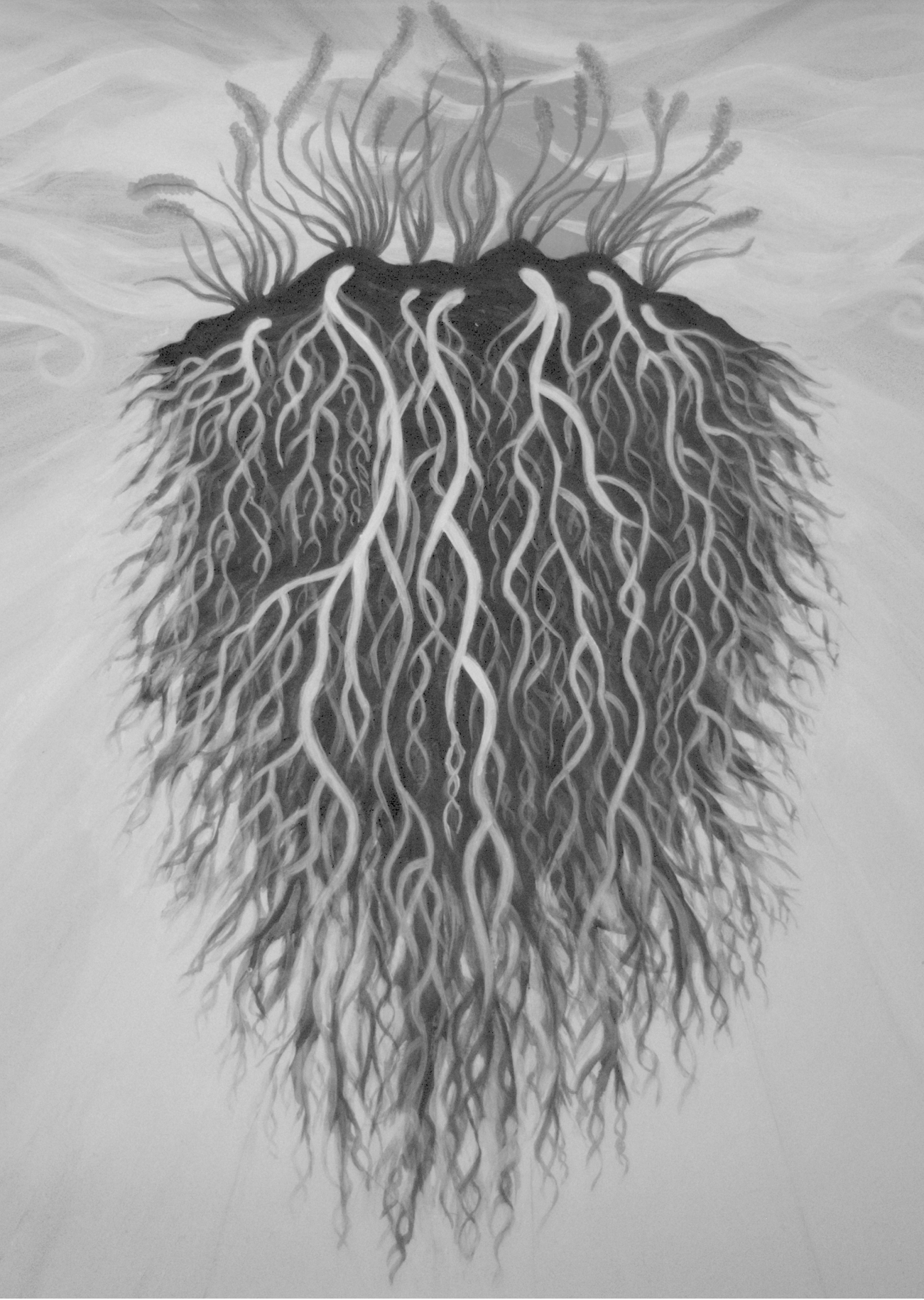

Table of Contents