Table of contents

1. Introduction 1

1.1 *Rhizoctonia solani* 1

1.2 *Rhiozoctonia solani* in sugar beet 1

1.3 Integrated control of *Rhizoctonia solani* in sugar beet 3

1.3.1 Disease management by agronomic measures 3

1.3.2 Chemical control of *Rhizoctonia solani* 5

1.3.3 Biological control Rhizoctonia *solani* 6

1.4 Biological control by mycoviruses 8

1.5 Mycoviruses of *Rhizoctonia* 12

2. Research objectives 16

3. Manuscript I 18

4. Manuscript II 41

5. Manuscript III 73

6. Manuscript IV 115

7. Discussion 137

7.2 Effect of the fungicide application on the soil-borne inoculum 141

7.3 Activity of the fungicides in the soil 146

7.4 Mycovirus detection to identify biocontrol agents 150

7.5 Outlook and conclusion - from fungicides to mycoviruses 155

8. Summary 158

9. References 161

10. Supplement 184

11. Danksagung 185

12. Curriculum Vitae 188

Dieses Werk ist copyrightgeschützt und darf in keiner Form vervielfältigt werden noch an Dritte weitergegeben werden.
Es gilt nur für den persönlichen Gebrauch.