



Universiteit
Leiden
The Netherlands

The impact of increased atmospheric carbon dioxide on microbial community dynamics in the rhizosphere

Drigo, B.

Citation

Drigo, B. (2009, January 21). *The impact of increased atmospheric carbon dioxide on microbial community dynamics in the rhizosphere*. Netherlands Institute of Ecology, Faculty of Science, Leiden University. Retrieved from <https://hdl.handle.net/1887/13419>

Version: Corrected Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/13419>

Note: To cite this publication please use the final published version (if applicable).

Contents

Chapter 1	General Introduction	1
Chapter 2	Climate change goes underground: effects of elevated atmospheric CO ₂ on microbial community structure and activities in the rhizosphere	8
Chapter 3	Impact of elevated CO ₂ on the rhizosphere communities of <i>Carex arenaria</i> and <i>Festuca rubra</i>	22
Chapter 4	Specific rhizosphere bacterial and fungal groups respond differently to elevated atmospheric CO ₂	40
Chapter 5	Tracking microbial responses in the rhizosphere of plants subjected to elevated CO ₂	58
Chapter 6	Distinct root-associated communities are selected by elevated atmospheric CO ₂	72
Intermezzo	Climate change modulates carbon flow through soil food webs	90
Chapter 7	Three year exposure to CO ₂ enrichment modifies microbially-mediated carbon flow	106
Chapter 8	General discussion	122
Reference		130
Summary		148
Samenvatting		150
Acknowledgments		152
Curriculum Vitae		162
Publications		164

