

5 Modelling P dynamics in the soil plant system

Andrea Schnepf^{1,*}, D. Leitner¹, S. Klepsch^{1,2}, S. Pellerin³, A. Mollier³

¹BOKU – University of Natural Resources and Applied Life Sciences, Vienna, Department of Forest- and Soil Sciences, Institute of Soil Science, Peter Jordan Strasse 82, A-1190 Vienna, Austria. Email: [andrea.schnepf, sabine.klepsch, daniel.leitner]@boku.ac.at.

²AIT Austrian Institute of Technology, Department of Health & Environment, 2444 Seibersdorf, Austria, Email: sabine.klepsch@boku.ac.at

³National Institute for Agricultural Research (INRA), Department for the Environment and Agronomy, Joint Research Unit for Soil Plant transfer and cycle of nutrients and trace elements (CEM), 71, Avenue Edouard Bourlaux, BP 81, F-33883 Villenave , d'Ornon, France. Email: [pellerin, mollier]@bordeaux.inra.fr.

*corresponding author

Abstract

The importance of phosphorus as both sparingly mobile essential nutrient and pollutant is reflected by the large number of P models at different scales and with different purposes. In this chapter, give an overview on models of P dynamics and generally discuss the approach to developing a mathematical model. Then, we demonstrate this concept by means of four case studies that focus on different plant traits that enhance plant phosphate uptake from soil. The first case study presents a model for phosphate uptake by a mycorrhizal root; the second case study shows a model for time-varying root exudation on the single root scale; the third case study is based on a root system scale model that includes root plasticity, and the fourth case study presents a model for crop response to soil phosphate supply.

5.1 Introduction

The importance of phosphorus (P) as both sparingly mobile essential nutrient and pollutant (e.g. Jones and Oburger 2009) is reflected by the large number of P models at different scales and with different purposes. P dynamics have been studied at a wide range of spatial scales. Examples include the global scale (Harrison et al. 2005), watershed scale (Radcliffe et al. 2009), ecosystem scale (Schlecht and Hiernaux 2005), farming systems scale (Schils et al. 2007), field scale (Schootmans and Groenendijk 2000; Torbert et al. 2008), whole plant scale (Mollier et al. 2008), soil profile scale (Roose and Fowler 2004), and single root scale (Kirk 1999; Roose et al. 2001). In Figure 5.1, we show various P models in a space-time diagram. The position in the space time diagram illustrates the main temporal and spatial scale of application. A full symbol means that this specific model includes smaller-scale submodels. The colour illustrates whether the model is mechanistic or empirical, deterministic or stochastic. Most of the models are mechanistic and deterministic; the degree of empiricity generally increases with spatial scale.

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Table of Contents Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant

1. Understanding the eBook Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
 - The Rise of Digital Reading Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
 - Personalized Recommendations
 - Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant User Reviews and Ratings
 - Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant and Bestseller Lists
- 5. Accessing Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant Free and Paid eBooks
 - Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant Public Domain eBooks
 - Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant eBook Subscription Services
 - Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant Budget-Friendly Options
- 6. Navigating Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant Compatibility with Devices
 - Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
 - Highlighting and Note-Taking Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
 - Interactive Elements Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
- 8. Staying Engaged with Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
- 9. Balancing eBooks and Physical Books Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
 - Setting Reading Goals Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
 - Fact-Checking eBook Content of Chapter 5 Modelling Phosphorus Dynamics In The Soil Plant
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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