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## Introduction

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## Abstract

Environmental pollution is an issue that exists throughout the world despite efforts to reduce it. This is due to environmental damage caused by industrial and agricultural discharges and uncontrolled waste on the ecosystem. It is important to reduce pollution in sectors such as agriculture, the pharmaceutical industry, or biomedicine through the use of environmentally friendly techniques, such as organic farming, waste recycling, or sustainable production. Bioremediation processes and environmentally friendly technologies can help prevent pollution, protect the environment, and save the environment. In this book, different efforts have been implemented in many sectors aimed at reducing pollution, because detailed environmental conservation goes hand in hand with human advancement. © The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. 2025.

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### **Abstract**

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