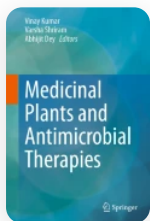


[Home](#) > [Medicinal Plants and Antimicrobial Therapies](#) > Chapter

# One Health Perspectives for Addressing Antimicrobial Resistance

| Chapter | First Online: 05 January 2024

| pp 1–21 | [Cite this chapter](#)

## Medicinal Plants and Antimicrobial Therapies

[Kawaljeet Kaur](#), [Pramod Barathe](#), [Sagar Reddy](#), [Vartika Mathur](#) & [Vinay Kumar](#)  171 Accesses

## Abstract

Injudicious and irrelevant use of antimicrobials for human health, hygiene, and in animal husbandry and allied fields has induced microbial resistance to wide-spectrum antimicrobials or antibiotics a condition referred to as antimicrobial resistance (AMR). It is challenging for scientists, researchers, and governments to tackle these situations via novel and effective approaches. The increase in the usage of antimicrobials in sectors of animal, aquatic, human, and environment has increased the cases of multi-drug resistant (MDR) pathogens. Major drivers of AMR in these sectors are found to be mobile genetic elements (MGEs) and antibiotic-resistant genes (ARGs) that transfer horizontally from one health sector to another via horizontal gene transfer (HGT) affecting the whole food