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## **Climate change: threats on the medicinal plants in Nepal**

Swastika Acharya, Sabina Sigdel, Ganga Kandel, Prabin Adhikari  
Institute of Forestry, Tribhuvan University, Pokhara Campus, Pokhara, Nepal



Correspondence: acharyaswastika@gmail.com

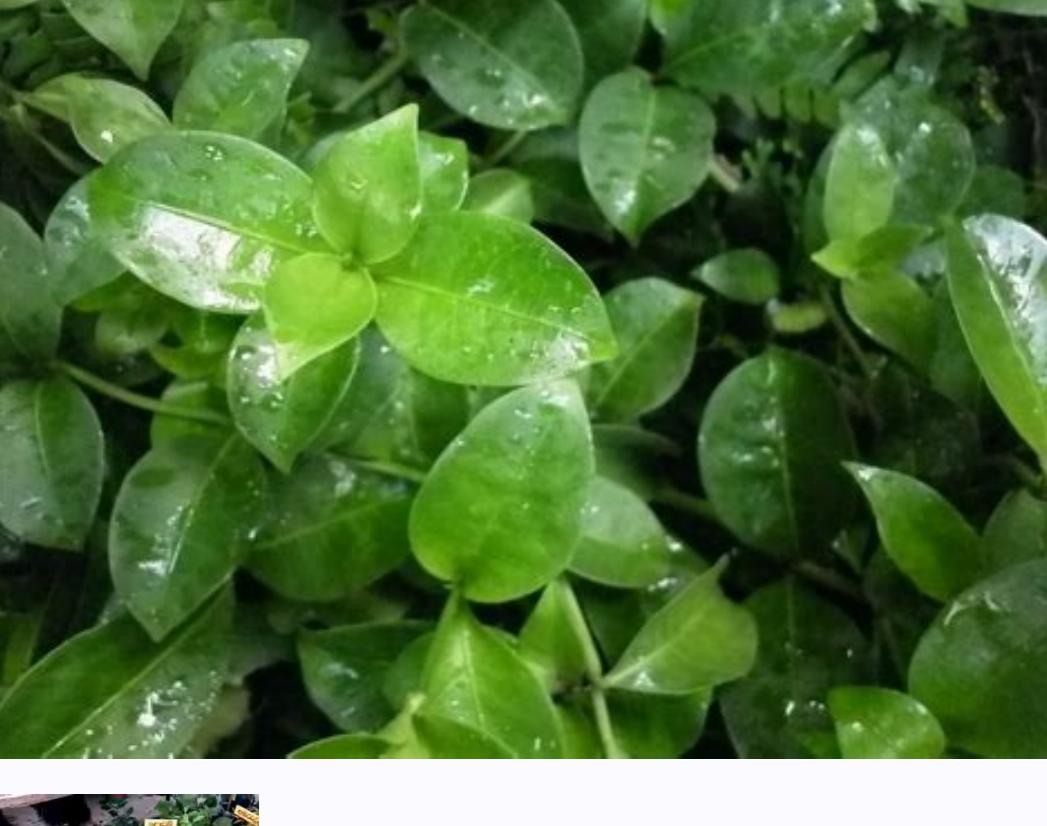
**Abstract:** Medicinal plants serve a vital role in human survival. Nepal is rich in biodiversity and it is widely known for its medicinal plant richness, which is both unique and internationally wealthy. Studies have shown that there are various consequences of climate change on medicinal plants. We analyzed historical and contemporary research regarding the threats on the medicinal plants in Nepal accessed through different online sources like Research Gate and Google Scholar. The present study revealed that the climate change has a significant influence on life cycles and the distribution of medicinal plant species. It is evident that climate change is having a considerable impact on the quality and productivity of medicinal plants, morphology, secondary metabolite production, availability of medicinal plant species, etc. Compared to other commercial crops, research on medicinal plants in relation to climate change is intermittent and modest. The current paper emphasizes the urgent need to enhance our understanding of the effects of medicinal plants via diverse studies. The study recommends applying different adaptive measures against climatic catastrophes for the conservation and preservation of medicinal plants.

**Keywords:** Medicinal plants, Climate change, Impacts, Adaptive measures, Conservation

## INTRODUCTION

Biodiversity is commonly recognized to be disappearing at an unprecedented level (Pimm et al., 1995). Climate change has gradually come to be regarded as one of the major concerns for humans as well as for all other species on Earth, and for the world's variations in seasonal patterns, weather events, temperature ranges, etc. (Cavaliere, 2009). The earth's climate is warming at an alarming rate, owing primarily to the exponential increase in carbon dioxide and other greenhouse gas emissions (methane, ozone, and so on) into the atmosphere (Malla, 2008). In recent years, Nepal has faced significant climate change consequences, including rapid retreat of glaciers, quick temperature rises

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