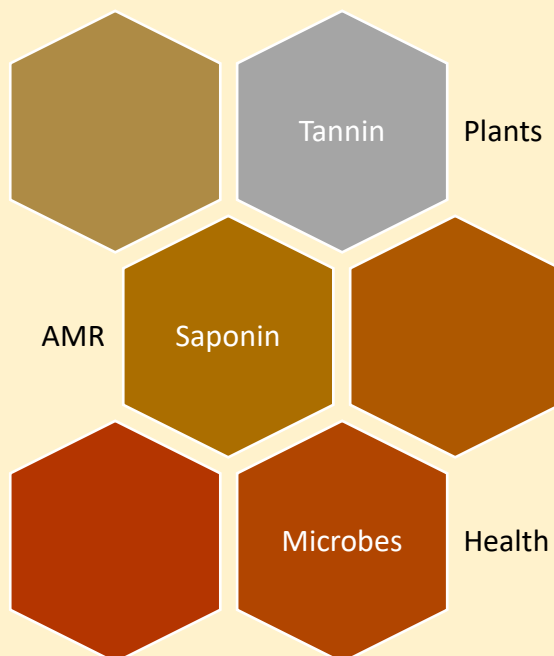


# Ethnopharmacology

## Volume I



**Jaydeep Kumar Sahu**  
**Ajay B. Jadhao**  
**Lalit Mohan Sahu**

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CHAPTER 5	QUALITATIVE PHYTOCHEMICAL ANALYSIS OF INDIAN CHARCOAL-TREE	DEEPTHI VALIGATLA, SK SAHANAWAZ ALAM, RANJAN SHAW, NIBEDITA JENA AND SANJEET KUMAR	34-43
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# Chapter 5

## QUALITATIVE PHYTOCHEMICAL ANALYSIS OF INDIAN CHARCOAL-TREE

DEEPTHI VALIGATLA<sup>1</sup>, SK SAHANAWAZ ALAM<sup>2</sup>, RANJAN SHAW<sup>3</sup>, NIBEDITA JENA<sup>4</sup> AND SANJEET KUMAR<sup>4\*</sup>

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**Abstract:** The qualitative phytochemical screening of *Trema orientale* (L.) Blume (Indian Charcoal-Tree) was carried out using aqueous extract of different plant parts (leaves, stem, and fruits). The results showed diverse secondary metabolites like tannin, flavonoids, phenolic compounds, reducing sugar, alkaloids etc. in all the three parts while the saponin is present in both leaves and stem but absent in fruit extract. This result gives base line data for future advanced experimental works in pharmacological aspects.

**Keywords:** Phytochemical screening, secondary metabolites, future pharmaceuticals

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### INTRODUCTION

Trees are of invaluable significance to our environment and to human well-being from which we get air to breathe, food, shelter and ultimately water to drink to live (Elmendorf 2008). The plants function important role in enhancing our quality of life by providing all these essentials. They are also an important source of medicines (Salmond et al. 2016; Das et al. 2022). Since years ago, especially the rural and tribal people completely depend upon the natural forests regarding the food and traditional therapeutic purposes for their health problems because of its easy availability, free of cost and less side effects (Kumar et al. 2021). Gradually the increasing population and urbanisation demand large-scale drug production which