

# Antioxidant Assay of the Shoot Extract of Rattan Species of Sikkim Himalayas by DPPH Method

**Raksha Mukhia, Dhani Raj Chhetri,  
Ashis Rai and Dawa Lhendup Lepcha**

*Department of Botany, Sikkim University, Samdur- 737102, Sikkim, India  
Email: mukhiaraksha@gmail.com*

---

**Abstract**—*Plectocomia himalayana* regionally known as 'beth'(Nepali), found in Sikkim is commonly cultivated from the wild for its edible shoot . The solvent extract of its shoots has free radical scavenging activity which was carried out in this study by 2,2-diphenyl-1-picrylhydrazyl DPPH. Hot methanol extract and cold methanol extract of the dried powder of the shoots of *Plectocomia himalayana* was used as sample for antioxidant profiling which was compared with two standards namely BHT (Butylated Hydroxyl Toluene) and Ascorbic acid. Further the its percentage scavenging activity was calculated.