**EVALUATION OF PHARMACOLOGICAL EFFECTS AND PHYTOCHEMICAL SCREENING OF RUMEX HASTATUS EXTRACTS**

**Background**

The objective of this study was to evaluate the antimicrobial and pharmacological effects of Rumex hastatus extracts. The study aimed to identify the therapeutic potential of natural compounds found in the plant.

**Materials and Methods**

- Collection and identification of plant material
- Extraction
- Phytochemical screening
- Qualitative analysis
- Quantitative analysis
- TLC (Thin Layer Chromatography)
- Antibacterial activity
- Antifungal activity
- Antioxidant activity
- Statistical analysis

**Result**

The antimicrobial activity of the extracts was assessed against a range of bacterial and fungal strains. The extracts demonstrated varying degrees of efficacy, with some showing potential for use as natural preservatives or antimicrobial agents.

**Summary**

The study confirmed the presence of secondary metabolites in Rumex hastatus extracts, which could have potential uses in pharmaceutical and food industries. Further research is needed to fully understand the mechanisms of action and to optimize the extraction process.

**Conclusions**

- The study provides evidence for the potential use of natural compounds from Rumex hastatus in various applications.
- Further research is needed to fully harness the therapeutic potential of the plant.

**References**