

# Phytochemical Diversity and Oral Bioavailability of Traditional Medicinal Plants from the Kimberley

Harsha Cikaluru | School of Environment and Science



## INTRODUCTION

The Kimberley region has a rich history of Aboriginal medicinal plant use. [1]  
To summarise current knowledge, a literature review was conducted regarding naturally present constituents and their phytochemical diversity. The bioactivities of the constituents were compared to traditional uses. The oral bioavailability of each compound was assessed. Potential for sustainable drug development and future biodiscovery was also discussed.

## METHOD

1. The traditional uses of plants, isolated constituents and their bioactivities were gathered

2. ChemDraw was used to draw and obtain SMILES code

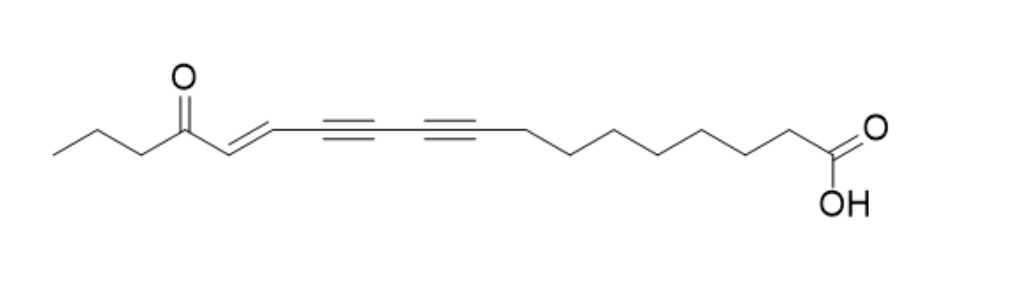
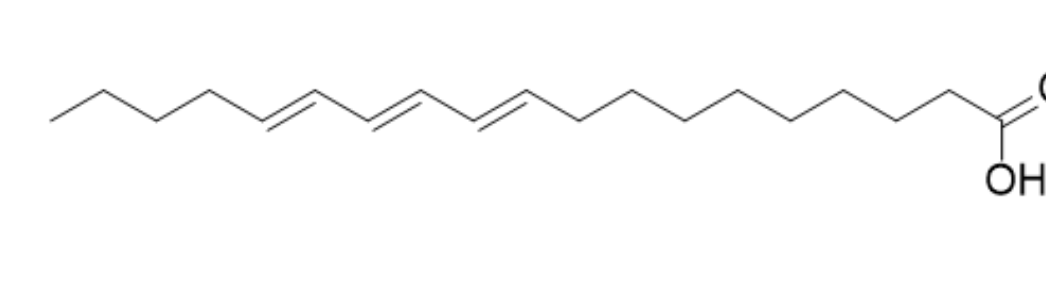
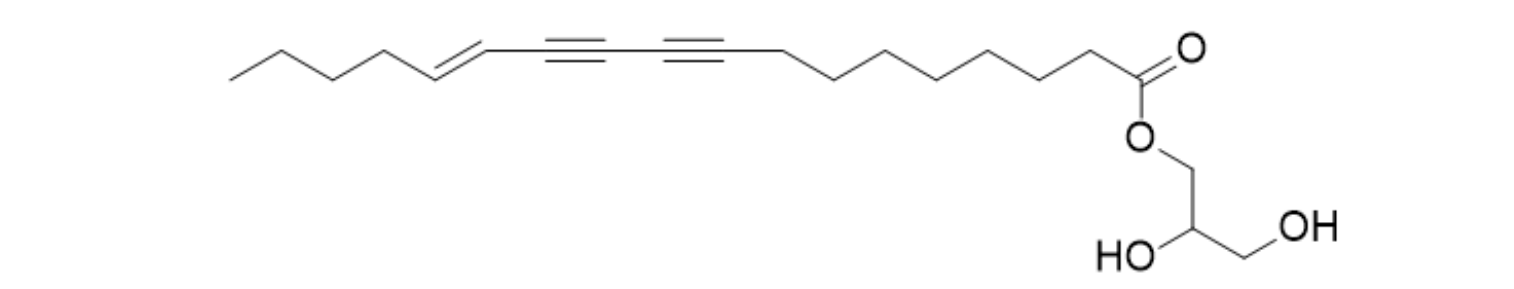
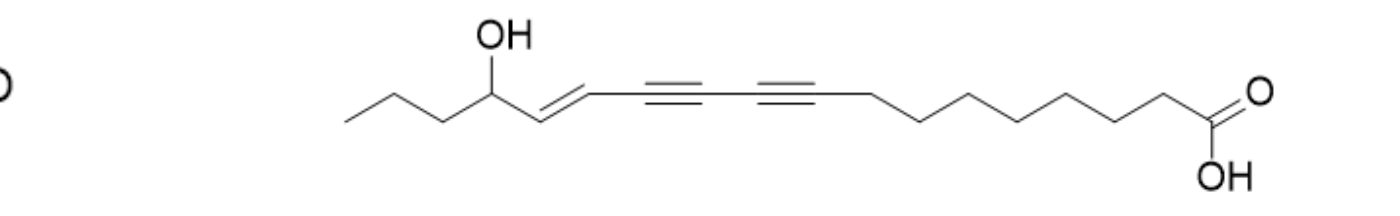
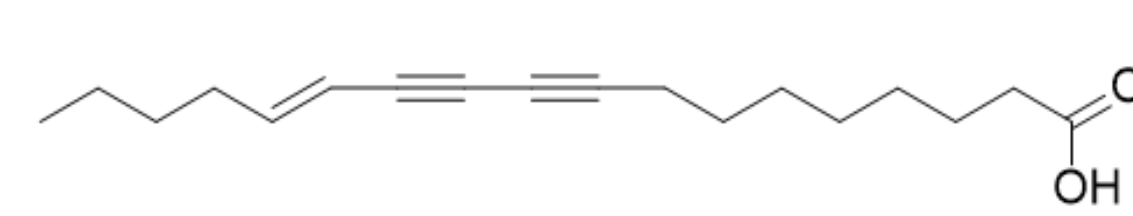
3. DataWarrior was used to perform a chemical analysis regarding oral bioavailability

4. Lipinski's Rule of 5 and Veber's Test were applied to determine oral efficacy

## PLANTS AND ISOLATED COMPOUNDS



*Exocarpos latifolius* treated cold and influenza symptoms, treated cuts and sores and was used as a contraceptive. [1]  
Compounds **1-6** were isolated. [2]



7: Noreugenin 8-C-glucosyl

