

## Introduction

Evidence of medicinal cannabinoid use since 2000 B.C

Currently, scientific studies are rediscovering and validating their therapeutic effects

## Methodology

Bibliographic research: Pubchem, PubMed, Google Scholar, UAB libraries

A total of 36 documents were consulted

## Chemical structure

Fig. 1: Dronabinol, THC

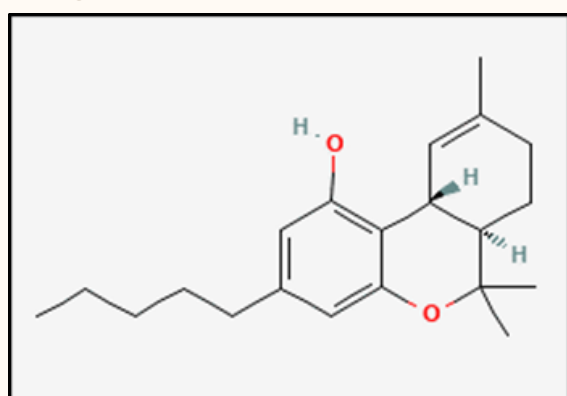


Fig. 2: Cannabidiol (CBD)

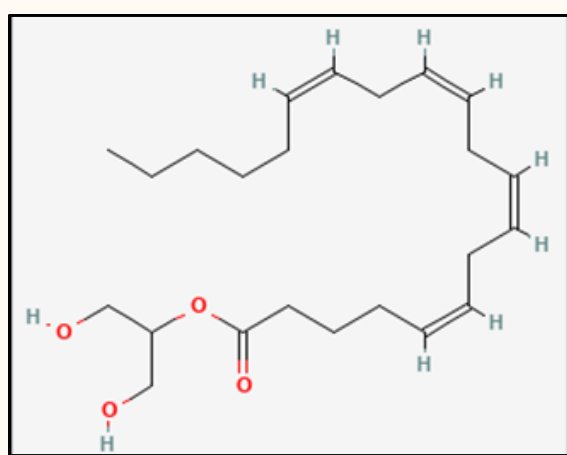
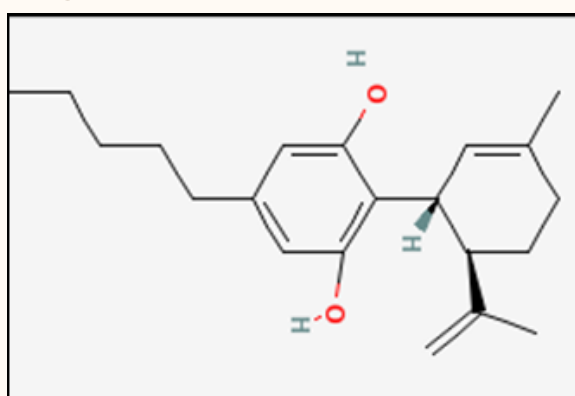


Fig. 3: Anandamida (AEA)

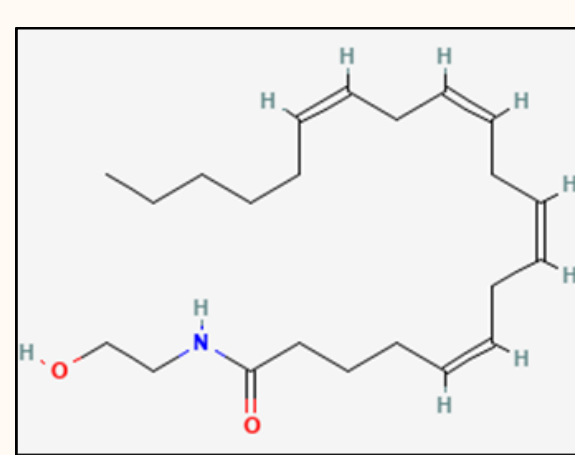


Fig. 4: 2-araquidonoil glycerol (2-AG)

## Main physiological functions

### AEA & 2-AG

Neuriprotective  
Increase REM phase  
Energetic  
methabolism  
Appetite stimulator  
Analgesic  
Antineoplastic

### CBD

Analgesic  
Antioxidant  
Antiemetic  
Anticonvulsant  
Antiinflammatory  
Anxylitic  
Antineoplastic

## Use of cannabinoids

### Human

- Multiple sclerosis
- Chronic neuropathic pain
- HIV
- Cancer
- Tourette syndrome

### Vet

- Osteoarthritis and chronic pain
- Seizures
- Pruritus
- Cancer
- Behavioral disorders



## Objectives

Current use of cannabinoids in vet medicine

- Chemical structure
- Endocannabinoid system
- Mechanism of action
- Physiological functions
- Use of cannabinoids in human medicine



## Mechanism of action



Fig. 5: Representation of the mechanism of action of endocannabinoids ( 2-AG and AEA) at the neuronal synapses

Table 1. Summary of a Cross-sectional survey on the use of medicinal plants by veterinarians in Spain

Survey results	Most common conditions	Animals treated	Treatment characteristics	Comments
313 valid responses 70,5% CBD	Anxiety Cognitive dysfunction Chronic pain Inflammation Cancer	Dogs Cats Others	Oil and tablets Monoherbal Mainly for musculoskeletal conditions	Positive attitude towards phytotherapy  Need for more studies to improve therapeutic efficacy evidence

## Discussion and conclusions

- Use and interest increasing
- Limited studies and information about real benefits
- Need of further investigation
- With more data, cannabinoids could become a tool for medicine and improve quality of animals

