BBioNets

Boosting the adoption of Bio-Based Technologies

Cross-Fertilisation Meetings

Bio-Based Practices on Farms & Forests

"Circular Approaches in Olive Groves"

Olive leaves as a potent source of bioactive compounds

Inmaculada Moscoso Ruiz, from CIDAF (Granada, Spain)

Online, 26/02/2026

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OUR CENTRE - CiDAF



Since 2013

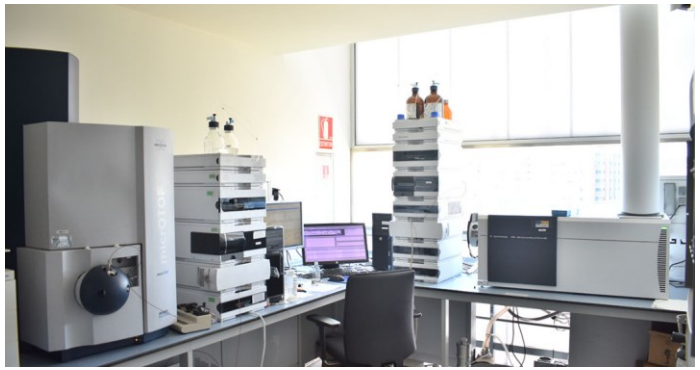


Extraction and microencapsulation

- Solid-Liquid
- UAE
- MAE
- ASE
- Supercritical Fluid
- Enzymatic
- Spray-drying



Bioactivity



Analytical chemistry

- HPLC-DAD
- HPLC-MS
- GC-MS



Pilot plant → Trespass the laboratory process to pre-industrial scale

OUR CENTRE - CiDAF

What we do?

Revalorise sub-products and/or residues from agri-food industry ✓

Optimize extraction developments (lab and pre-industrial) ✓

Analyze compounds in almost all kind of matrixes ✓

Provide customized solutions to clients (consultant or experimentally) ✓

Smart Bio Fert
SOCIAL BIOFERTILIZERS

2026

ProSOSt

OUR CENTRE - CiDAF

PROJECTS AT CIDAF

Last year

BIOREVALEAF

4food CHERRY

MACROALGAE

TOMAGRO UP

Past years

ecoinsect

Eco Bio livo

Intesolive



Azubioact



AgrONitro

Diputación de Granada
Avanzamos junt@s

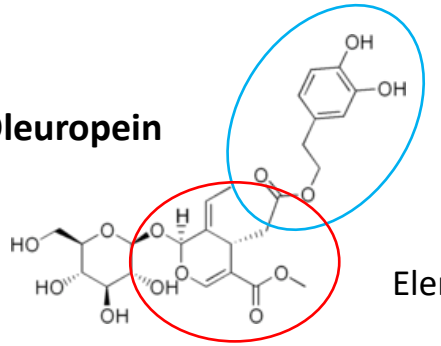
OLIVE LEAVES

Intesolive



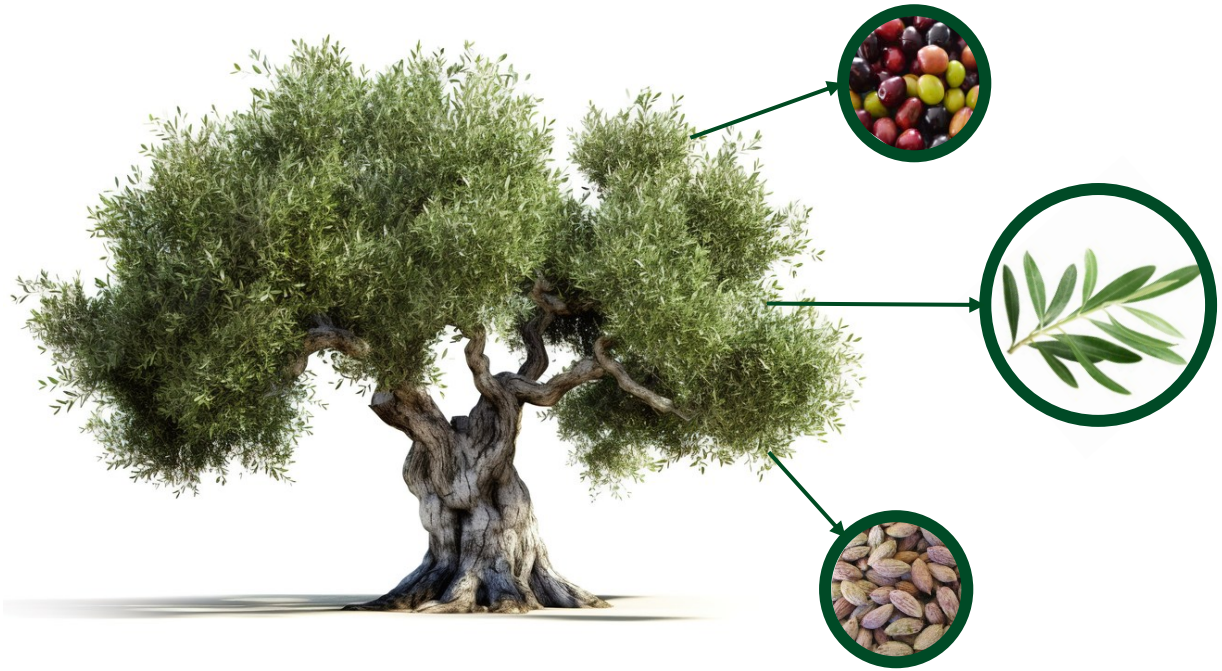
Bioactive compounds in olive leaves

Oleuropein



Hydroxytyrosol

Elenolic acid









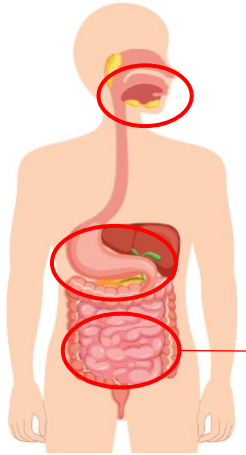
INTESOLIVE – 2018 - 2021

Microencapsulation of olive leaf extracts commercially available



Extract rich in diverse polyphenols ✓

Bioavailability of phenolic compounds – intestinal inflammation

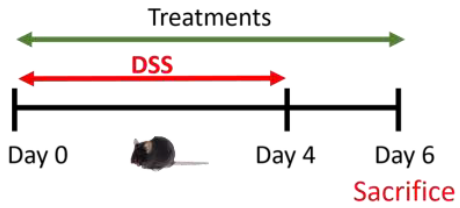


INFOGEST

In vitro evaluation

Oleuropein 40% bioaccesibility

Hyty 20% bioaccesibility



Analysis of plasma – colitis mice model

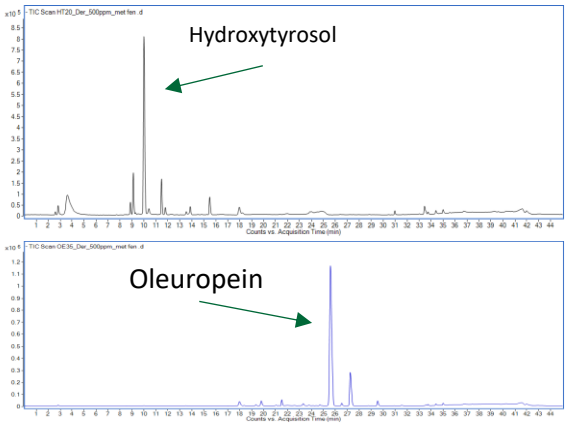
Oleuropein ✓

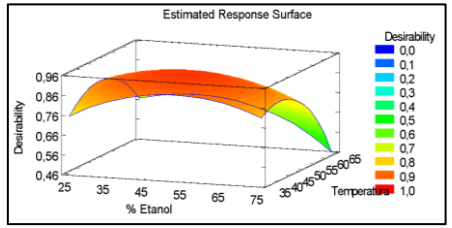
Hydroxytyrosol ✓

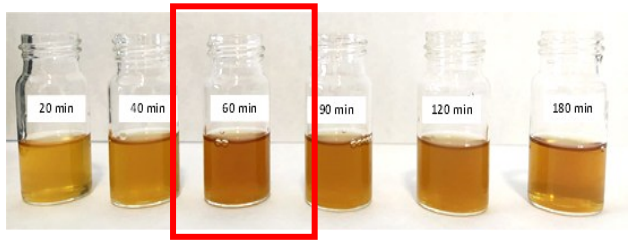
ECOBIOLIVO – 2021 - 2025

Extraction of phenolic compounds and microencapsulation





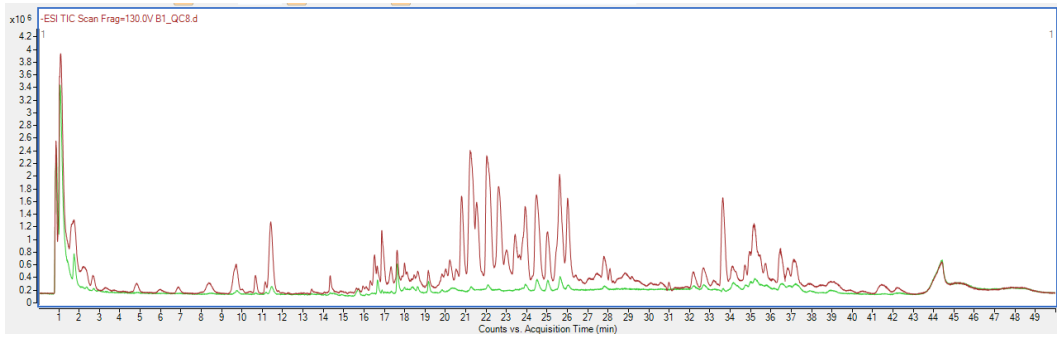




Extract rich in Hydroxytyrosol ✓

Nutritional intervention study





Influence of the olive leaf extract in lipid metabolism, promoting lipid metabolism regulation and potentially improving fatty acid homeostasis ✓

BIOREVALEAF – 2023-2025

Pretreatment (before extraction)

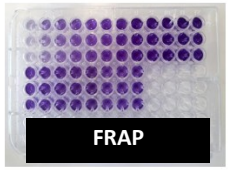


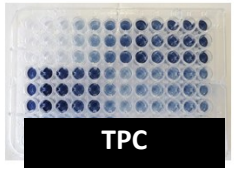



Spectrophotometric assays





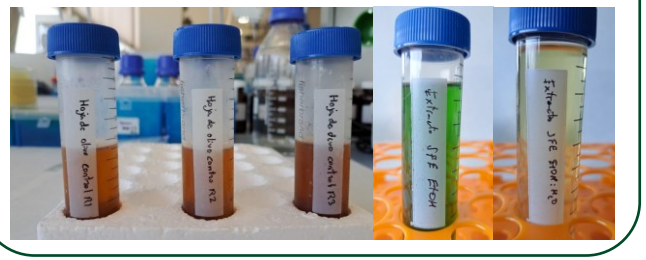




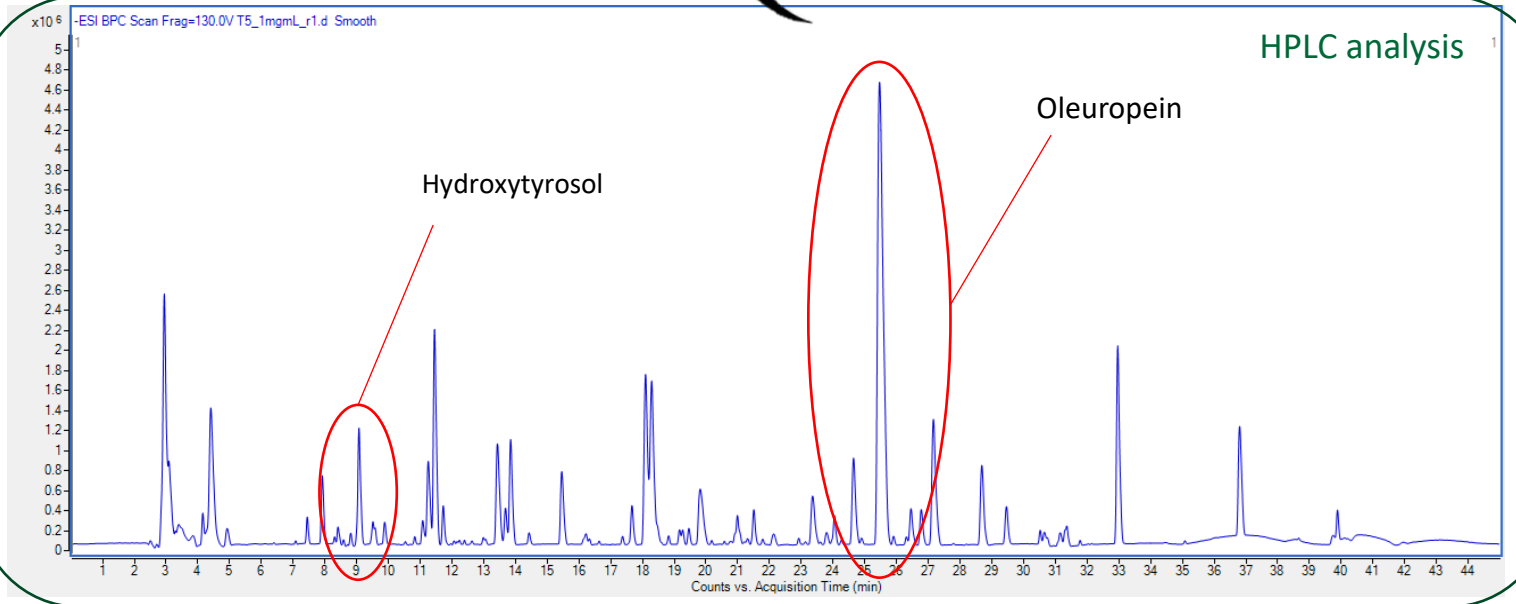
Prototypes of olive oil enriched with polyphenolic compounds by using emulsion



Extraction



HPLC analysis



FUTURE PROJECTS









Thank you!

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