LEAF4VALUE

OLIVE LEAF MULTI-PRODUCT CASCADE BASED BIOREFINERY

WP3

Post-extraction technologies: From extracted fractions to high added value tailor made bioproducts

MAIN OBJECTIVES

- Develop enzymatic-assisted methods for the production of oleuropein derivatives with enhanced functional and technological properties
- Develop enzymatic assisted methods for the production of oleanolic acid derivatives with enhanced functional and technological properties
- Employ Molecularly Imprinted Polymers technologies to separate and purify high added value minor compounds from the olive leaf (secoiridoids/derivatives/triterpenic acids)
- Employ Molecularly Imprinted Polymers technologies to separate and purify high added value minor compounds from the olive leaf (flavonoids/lignans)
- Apply micro/nano encapsulation technologies to improve the solubility, bioavailability and bioactivity of triterpenic acids

PARTNERS INVOLVED

Natac Science to Market

ipb Instituto Politécnico de Bragança

ARQUEBIO Bioprocessing

Università degli Studi Firenze

mibelle GROUP biochemistry

TECHNICAL DEVELOPMENTS

Molecularly Imprinted Polymers → Successfully targeted key olive leaf compounds.

6 Solid dispersions → Increased solubility and permeability of olive leaf extracts for oral applications

6 Microemulsions → Increased solubility and permeability of olive leaf extracts for oral applications

16 partners | 9 EU countries

Natac · Oleícola El Tejar · Ingecor · CENER · ipb Instituto Politécnico de Bragança · ARQUEBIO · Università degli Studi Firenze · NIZO · Martin-Luther-Universität Halle-Wittenberg · mibelle biochemistry · innovarum · Zero-Emissions Engineering · NNFCC · MQWI

oleaf4value.eu
@OLEAF4VALUE
@OLEAF4VALUE

PROJECT COORDINATOR
jmpinilla@natacgroup.com

D&C COORDINATOR
andrea.leon@innovarum.es

This project has received funding from the Bio-Based Industries Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement nº 101023256

Bio-based Industries Consortium · BBI JU