

UNIHEMP – Cannabis protectio

PARIS R.*, CANNAZZA G. **/**
roberta.paris@crea.gov.it; giuseppe.cannazza@unimore.it

*) CREA – Research Center for Cereal and Industrial Crops, (CREA-CI), via di Corticella 133, 40128 Bologna (Italy);
 **) Department of Life Sciences, University of Modena and Reggio Emilia, Modena, Italy;
 ***) CNR NANOTEC, Institute of Nanotechnology, Lecce, Italy



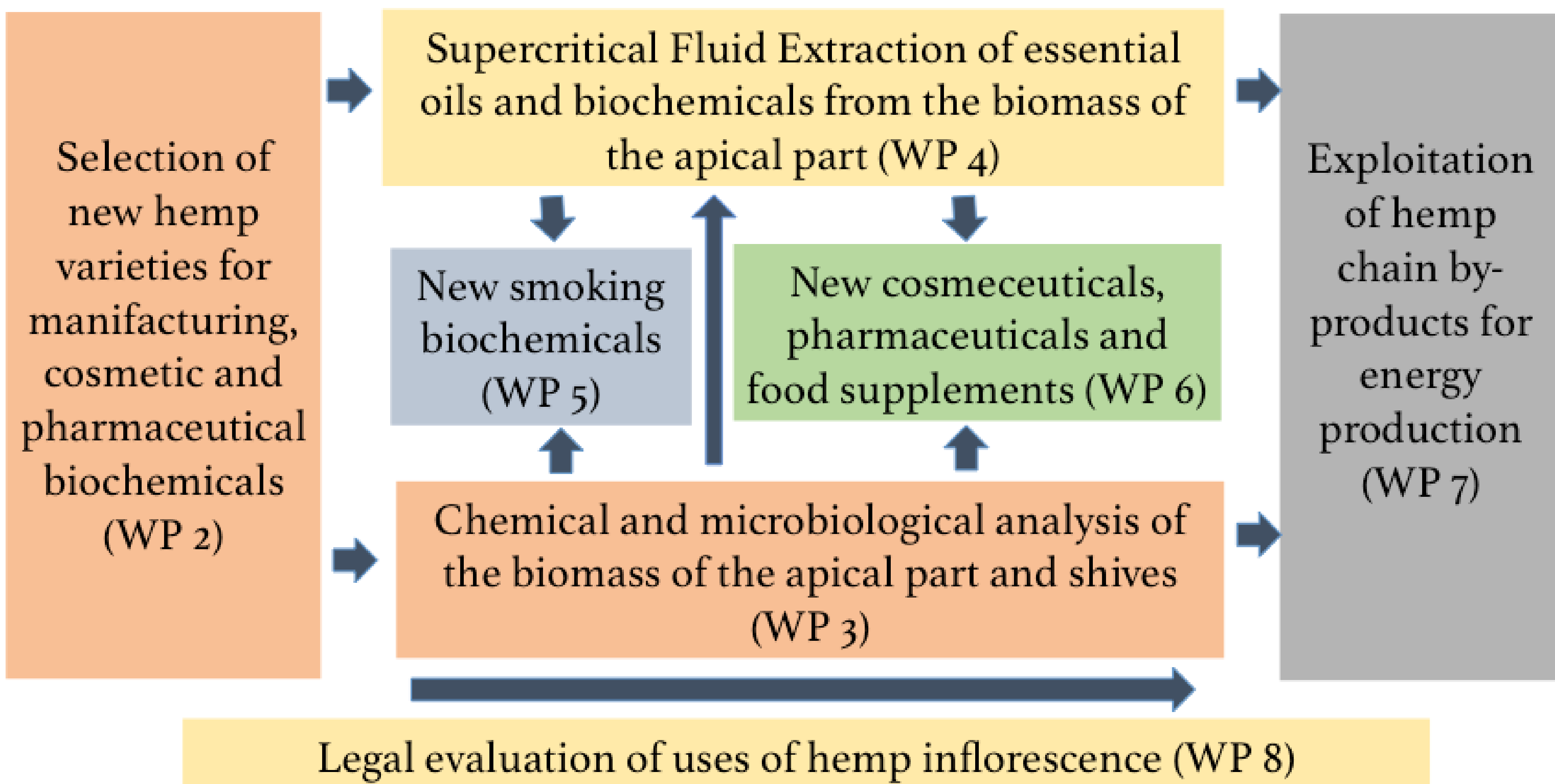
<http://unihemp.dhitech.it/>

The UNIHEMP research project “Use of iNdustrIal Hemp biomass for Energy and new biocheMicals Production” (ARS01_00668) is funded by PON “Ricerca innovazione” 2014 – 2020 – Azione II – OS L.B).

It aims at the creation of a **circular economy** around the hemp chain, where its waste comes into new production cycles, such as those of **biochemicals with high added value** and renewable energy, in the broader perspective of an advanced European bioeconomy that will allow smart and green growth. The hemp waste is the apical part of the plant, the inflorescence, actually rich in extremely interesting secondary metabolites from a pharmaceutical point of view, as well as the shives, that is, the woody part of the stalk that remains after the fiber is removed.

In order to achieve the goals of the project, several studies will be conducted on agronomic aspects, biotechnological aspects of the lignocellulosic biomass and biochemicals production chains, on the valorisation of by-products, creating close synergy between private companies and public research partners.

Coordination, exploitation and dissemination (WP 1)



WP 2 goals:

- 1) Identify varieties suitable for South Italy pedo-climatic conditions, used as source of biochemicals;
- 2) Select materials with high content of bioactive compounds;
- 3) Study molecular mechanisms of accumulation of active compounds and develop molecular markers for these traits;
- 4) Test the possibility to modulate the accumulation of active compounds in hemp biomass;
- 5) Identify phytopathological critical issues and crop defense strategies for healthy products.

