#### Valorization of olive waste in sustainable food innovation

















#### **OLIVE POMACE**







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20% oil (olive pomace oil)

source of energy (biofuel)

source of olive phenols (oleuropein derivatives, hydroxytyrosol)





#### EU Register on nutrition and health claims

The search tool only allows searches for health claims\*, and not nutrition claims.

\* Health claims for which protection of proprietary data is granted (and for which the right of use of the claim is restricted to the benefit of the applicant) are only listed here.

You can also download the complete dataset of nutrition and health claims in the following formats: 🔀 (1.14 Mb) 📆 (2.22 Mb)

#### EU Register Search

Showing 1 to 1 of 1 entries (filtered from 2,310 total entries) 10 records per page < EFSA opinion Commission Nutrient, substance, food or food reference / Claim Conditions of use of the claim / Restrictions of use / Health relationship Entry ID Claim 👔 Status 👔 Regulation type 📊 category 🛐 Reasons for non-authorisation 🛐 7 Journal 7 reference 🛐 Art.13(1) Olive oil polyphenols Olive oil polyphenols contribute to the protection of blood lipids The claim may be used only for olive oil which contains at least protection of LDL 2011;9(4):2033 Commission Authorised 1333, from oxidative stress 5 mg of hydroxytyrosol and its derivatives (e.g. oleuropein particles from oxidative Regulation complex and tyrosol) per 20 g of olive oil. In order to bear the damage (EU) claim information shall be given to the consumer that the 432/2012 of beneficial effect is obtained with a daily intake of 20 g of olive 16/05/2012

oil.

7

1638,

1639,

1696,

2865











hrzz Hrvatska zaklada za znanost

|          | Data       | Production methods used |                                  |                                  |                                   |  |  |
|----------|------------|-------------------------|----------------------------------|----------------------------------|-----------------------------------|--|--|
| Country  |            | Traditional             | 2 phase<br>centrifugal<br>system | 3 phase<br>centrifugal<br>system | Other                             |  |  |
| Spain    | National   |                         | 100%                             |                                  |                                   |  |  |
|          | -Jaen-     |                         | 100%                             |                                  |                                   |  |  |
| Italy    | National   | 37.5%                   | 0.7%                             | 47.5%                            | Mixed (2.5) - 9,6 %. Other- 4,2 % |  |  |
|          | -Liguria-  | 52%                     | 0,005%                           | 30%                              | Mixed (2.5) - 13 %. Other- 0,02%  |  |  |
| Greece   | National   | 5%                      | 7%                               | 88%                              |                                   |  |  |
|          | -Crete-    | 1%                      | 5%                               | 94%                              |                                   |  |  |
| Croatia  | National   | 43%                     |                                  |                                  | 57% (2-phase and 3-phase)         |  |  |
|          | -Istria -  | 6%                      | 63%                              | 31%                              |                                   |  |  |
| Slovenia | National   | 33,3%                   | 33,3%                            |                                  | 33,3%                             |  |  |
|          | -Istrian - | 36%                     | 27%                              |                                  | 36%                               |  |  |

|          |            | Quantity of (tn/year) |                  |                              |   |  |  |
|----------|------------|-----------------------|------------------|------------------------------|---|--|--|
| Country  | Data       | produced<br>olive oil | virgin<br>pomace | dry<br>pomace<br>(with pits) | pit/stone                                   |  |  |
| Spain    | National   | 1.230.000             | 4.920.000        | 4.222.000                    | 2.500.000                                   |  |  |
|          | -Jaen-     | 544.555               | 2.058.221        | 1.770.378                    | 1.050.000                                   |  |  |
| Italy    | National   | 721.418               | n.a              | n.a                          | n.a   |  |  |
|          | -Liguria-  | 5.500                 | 12.000           | Not<br>existing              | 3.240 potentially<br>(27% of virgin pomace) |  |  |
| Greece   | National   | 352.000               |                  | 598.000                      | 53.800-161.500                              |  |  |
|          | -Crete-    | 33.300                | n.a              | 56.500                       | 5.100-15.400                                |  |  |
| Croatia  | National   | 5.000                 | 18.200           | n.a                          | 3.640                                       |  |  |
|          | -Istria -  | 810                   | 3.509            | n.a                          | 710   |  |  |
| Slovenia | National   | 275                   | 1100             | n.a                          | 281   |  |  |
|          | -Istrian - | 255                   | 1000             | n.a                          | 258   |  |  |







# NutriOliWa: extraction optimization





## NutriOliWa: extraction optimization







## NutriOliWa: characterization





















## NutriOliWa: novel applications











