



## NATIVE VEGETABLE OILS: PROPERTIES AND MECHANISMS



**Introduction:** Vegetable oils w (polyunsaturated fatty acids, too carotenoids, organic acids, alcol ketones) and hydrophilic (phen hydroxycinnamic esters, flavono determines a lot of biological pr

## **Keywords:** vegetable oils, cytoprotective, antioxidant, regenerating



![](_page_0_Picture_7.jpeg)

**Purpose:** Analysis and systematization of the properties and mechanisms of vegetable oils.

![](_page_0_Picture_9.jpeg)

# CONSACRAT ANIVERSĂRII A 75-A DE LA FONDAREA USMF "NICOLAE TESTEMIȚANU"

### TATIANA RAKOVSKAIA, doctorand an. I, univ. assistant

![](_page_0_Picture_12.jpeg)

vith lipophilic compounds	
copherols, phytosterols,	Ke
hols, esters, aldehydes,	Re
olic acids, aldehydes,	an
ols, procyanidins)	CV
roperties.	ati

![](_page_0_Picture_14.jpeg)

![](_page_0_Picture_16.jpeg)

Material and methods: Articles from the PubMed atabase were selected and analyzed according to the eywords "vegetable oils","properties", "mechanisms".

![](_page_0_Picture_37.jpeg)

esults: Vegetable oils have demonstrated antimicrobial, tioxidant, anti-inflammatory, anti-tumor, regenerative, vtoprotective activity. The antioxidant activity is tributed to scavenging free radicals, inhibited the lipid peroxidation, decrease the levels of conjugated diene, malonic dialdehyde, and increase the gene expression levels and production of some antioxidant enzymes. The anti-inflammatory activity by inhibited the high nitric oxide, pro-inflammatory cytokine and prostaglandins, increase the levels of the cytokines, inhibited inflammatory cell infiltration and oxidative damage. The anti-tumor effect involve apoptosis, DNA damage and oxidative stress.

**Conclusions:** The biological properties of vegetable oils have been attributed to polyunsaturated fatty acids, polyphenols, procyanidins, tocopherols, tocotrienols, carotenoids, phytosterols, chlorophylls, flavonols, glucoside constituiens.

![](_page_0_Picture_41.jpeg)

octombrie 2020