Research projects

Address of information system with evidences of research contribution and evidences of societal impact


Evaluated unit

Institute of Health Sciences, College of Medical Sciences, University of Rzeszow

Discipline

Health Sciences

Title of societal impact case study

Research projects:

1. Determination of antioxidant properties of medicinal herbs

Agnieszka Ewa Stępień, Kinga Szlachetka

2. Determination of bisphenol A content in breast milk

Agnieszka Ewa Stępień, Artur Mazur

3. Determination of oligosaccharides in goat's milk and breast milk

Agnieszka Ewa Stępień, Aleksander Myszka, Małgorzata Huflejt, Anna Górka

1. Research contribution

Publications:

1. Effect of Fertilization in Selected Phytometric Features and Contents of Bioactive Compounds in Dry Matter of Two Varieties of Basil (Ocimum basilicum L.), The effect of drying methods on the energy consumption, bioactive potential and colour of dried leaves of Pink Rock Rose (Cistus creticus)

Kinga Szlachetka-supervisor, Agnieszka Ewa Stępień: Analysis of antioxidant properties of Lebanese sage (gojnik), oleaginous moringa, and pink rockrose.


2. Evidence of research contribution

Publications:


Bachelor's thesis III lic Kinga Szlachetka: Analysis of antioxidant properties of Lebanese sage (gojnik), oleaginous moringa, and pink rockrose.

3. Characteristic of societal impact

1. Determination of antioxidant properties and polyphenol content of herbal infusions: pink rockrose, Lebanese sage, milk thistle, moringa, calendula and dried cistus, basil, and oregano are very important for consumers.
2. The research project aims to determine the content of bisphenol A (BPA) in breast milk. Bisphenol A compound having a negative effect on the normal development of newborns, whose determination is necessary when taking breast milk at milk banks.
3. The research project aims to determine the content of oligosaccharides in goat's milk and breast milk. Oligosaccharides having a significant impact on the development of microbial flora, strengthening the immune system of newborns.

4. Evidence of societal impact

All publications available on the websites.


5. Justification of interdisciplinarity and breakhrough of the research

The analysis of antioxidant properties and polyphenol content of herbal infusions: purge, clematis, milk thistle, moringa, calendula and dried purge, basil and oregano is very important information for consumers.

Determining the content of bisphenol A (BPA) in breast milk and having a negative impact on the proper development of newborns is very important. Migration of bisphenol A from food packaging, and consequently
its participation in the diet of pregnant women affects the development of the fetus and later on its content in breast milk of breastfeeding women. This examination should be mandatory when taking breast milk at milk banks.

Oligosaccharides present in goat's milk and breast milk are referred to as 'immunosugars'. Their influence on the development of microbiological flora and strengthening of the immune system of newborns is emphasized. Analysis of their level in goat's milk will allow the isolation of oligosaccharides and the possibility of including preparations containing it in the diet of newborns that cannot be fed by mothers to strengthen their immunity.