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ABSTRACT BOOK



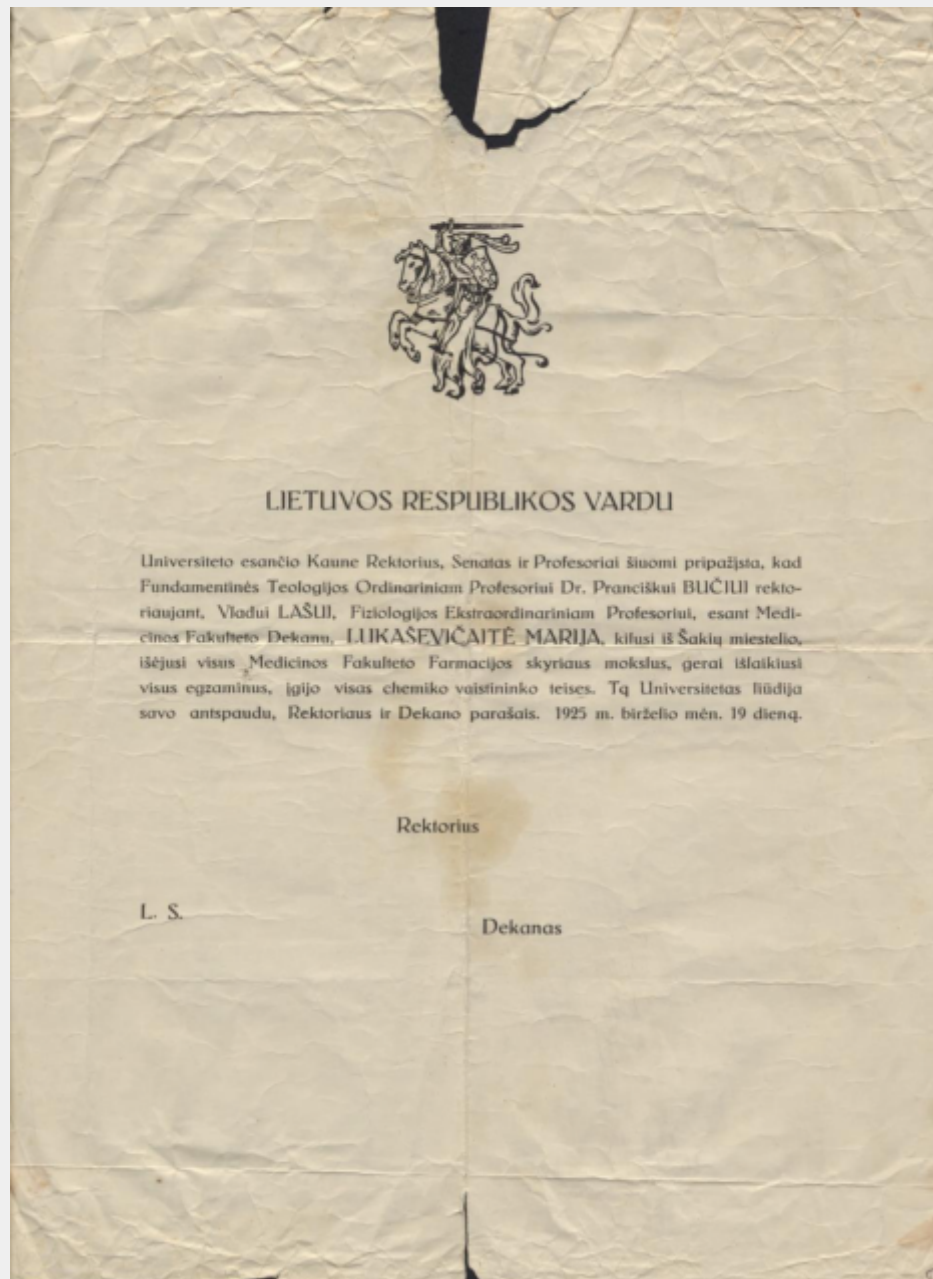
CONTEMPORARY PHARMACY: ISSUES, CHALLENGES AND EXPECTATIONS 2025

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Conference dedicated to the Centennial of the First Lithuanian Pharmacy Diploma.

One hundred years ago, the first nine graduates of the University of Lithuania completed their higher pharmacy studies and were awarded the diploma of Chemist-Pharmacist. Over the past 100 years, approximately 5,600 individuals have completed higher pharmacy studies in Kaunas. These graduates are not only the creators of Lithuanian pharmacy history but also contributors to the broader history of our country.

As we mark this centennial milestone, it is a fitting moment to look back and reflect on the remarkable journey we have taken...



A Comprehensive Distribution of the Relevance of Using *Phacelia tanacetifolia*.

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Background: *Phacelia tanacetifolia* is a multifunctional crop with applications in agriculture, beekeeping, and industry. However, its potential for the pharmaceutical industry remains underexplored. Further research into its chemical composition and effects on the human body represents a promising direction for scientific investigation.

Aim: evaluation of the potential pharmacological significance of *Phacelia tanacetifolia* and its prospects for use in the pharmaceutical industry.

Methods: a review and analysis of literature sources have been conducted, highlighting the chemical composition of *Phacelia tanacetifolia* Benth. and its potential applications in medicine and pharmacy.

Results: *Phacelia tanacetifolia* Benth. exhibits significant value due to its combination of agricultural, melliferous, and industrial properties. The plant contains phenolic compounds, including rosmarinic acid, which is a taxonomic marker for the *Boraginaceae* family, as well as flavanones such as eriodictyol and hesperetin, along with fatty acids. This composition makes it a promising source for dietary supplements and pharmaceutical products. As a green manure crop, *Phacelia* enhances soil fertility, while its high nectar productivity makes it valuable for beekeeping. Its rich protein-vitamin composition supports its use as a fodder crop, positively impacting livestock production. Additionally, its fibrous stems are utilised in paper and textile manufacturing, contributing to a zero-waste approach. The presence of bioactive compounds in *Phacelia* sparks particular scientific interest, suggesting potential applications in pharmacology and biotechnology. These aspects highlight the broad prospects of this plant, necessitating further research. Due to its high adaptability to various growing conditions, *Phacelia tanacetifolia* can serve as an environmentally friendly raw material.

Conclusion: Thus, *Phacelia tanacetifolia* is a promising crop with significant yet underexplored pharmacological potential. The obtained results indicate the need for further chemical analyses. Research on this plant may open new opportunities for the pharmaceutical industry, contributing to the development of new medicinal products and biologically active supplements.

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