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«Scientific Research: Theoretical  
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The collection of abstracts presents the materials of the participants of the International scientific and practical conference «Scientific Research: Theoretical Foundations and Practical Applications».

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**SCIENTIFIC AND EDUCATIONAL SIGNIFICANCE  
OF THE HISTORICAL ASPECT WHEN STUDYING  
ISSUES OF CHROMATOGRAPHY IN THE  
“MEDICAL CHEMISTRY”**

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The "Medical Chemistry" occupies an important place among the natural disciplines of degree students at the Kharkiv National Medical University. Chemical sciences in the system of training medical students are those natural sciences that enable future doctors to acquire knowledge and practical skills that will be necessary when studying other disciplines, both medico-biological and clinical profile. «Medicinal chemistry» is the basis for the technical competency of future specialists, and it is the basis for the development of intellectual and research abilities. An important task of a modern teacher is to interest students and motivate them to learn. Chemical sciences can be a difficult discipline for future doctors to understand, and this requires the search for new and improved methods, forms and methods of teaching. Therefore, the use of a historical approach in the classroom is one way to solve this problem. The historical approach involves linking the past to the phenomenon or object

under study. At the same time, students comprehend the connections between the educational material and its history.

The historical approach aims to solve a number of tasks:

- formation of key and subject competences: general cultural, information and communication, natural science;
- activation of educational and cognitive activities of students;
- expanding the scientific outlook, forming a natural science picture of the world, integrating knowledge;
- interest, motivation to imitate, cultivation of practicality and perseverance;
- developing the ability to use the methods of induction and deduction, analysis and synthesis, and to make conclusions and generalisations.

Today, when we live and work in the age of modern gadgets and use interactive research methods, we should remember that pride in past achievements breeds respect for the achievements of the present. Therefore, we consider it appropriate to mention the contribution of Kharkiv scientists (Ukraine) M.O. Izmailov (academician, scientist in the field of physical chemistry) and M.S. Schreiber (scientist-pharmacist). They proved 85 years ago that a flat layer of sorbent is an analogue of a chromatographic column - they studied and established that this method is short-lived and economical (the experiment requires drops of the investigated solution and a small amount of sorbent). Our scientists created the method of thin-layer chromatography (TLC) based on the chromatographic method of analysis proposed by M.S. Tsvet in the early 20th century (including classical column chromatography).

Ukrainian scientists saw the advantages of TLC in simplifying the choice of sorbent, medium, developer, reducing research time and materials for conducting preliminary experiments. TLC was born at the Ukrainian Institute of Experimental Pharmacy (Kharkiv) and since 1960 to the present day, TLC has developed rapidly and found wide practical application in both qualitative and quantitative analysis of organic and inorganic compounds.

Today, TLC is based on a huge amount of theoretical knowledge and practical experience, on new directions and achievements, on classical and advanced methods and techniques. The basis of many qualitative and quantitative methods in chemistry and pharmacy today is TLC, which has found practical application both for the identification of chemical compounds, substances, active pharmaceutical ingredients, biologically active compounds, drugs, impurities, and for their quantitative determination and for the purity of reference materials.

Versatility, high sensitivity, and simplicity are the main characteristics of TLC, the theoretical significance and practical application of which can hardly be overestimated due to the modernity and relevance of its use in scientific research. That's why, when studying the topic "Chromatography" with medical students, we consider it advisable to draw the attention of students to the historical aspect of chromatography, including TLC, this approach is especially important at the motivational stage of the lesson, as well as during the generalisation and systematisation of the material studied.

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## ECOLINGUISTICS THROUGH THE PRISM OF SCIENTIFIC PHENOMENON

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The purpose of the theses is to trace the evolution of ecolinguistics thoughts in the modern scientific paradigm and definition of factors, which will affect its further development.

Ecolinguistics is a relatively new scientific direction that emerged in the second half of the 20th century and has undergone rapid development in recent years. Modern interpretations of ecolinguistics are quite diverse. Many linguists associate the term "ecology" with context or language medium to describe the problems involved with a language that is embedded in sociolinguistic, educational, economic or political circumstances.

The most widespread term in linguistics is "ecology" acquired thanks to Einar Haugen, a well-known representative of the American branch of sociolinguistics. After the publication of the book " The Ecology of Language: Language Science and National Development " in 1972, a rapid development of the direction is observed. E. Haugen believed that the subject of ecology is the study of the consequences of the psychological and social situation and its influence on language. He was also the first to formulate the problems of language ecology as a separate direction by metaphorizing the concept of traditional ecology. One of the provisions formed by him shows that languages, like biological species, are born, grow, change, live and die in interaction



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