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SVEUČILIŠTE J. J. STROSSMAYERA U OSIJEKU
ZNASTVENI CENTAR IZVRSNOSTI ZA
PERSONALIZIRANU BRIGU O ZDRAVLJU



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Operational programme
**COMPETITIVENESS
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EUROPEAN STRUCTURAL
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ZCI

Cutting-Edge Research in Centers of Excellence

The Center of Excellence for Personalized Health Care is an interdisciplinary hub advancing biotechnological and biomedical sciences. The Center aims to transfer knowledge from biotechnology into fundamental and applied biomedical research, bringing together teams from various institutions to address health challenges through personalized medicine.

A major focus is the analysis of glycan biomarkers to assess the effects of functional foods on healthy individuals and patients. This innovative approach to health and nutrition aims to impact the global scientific community and improve regional and national economic competitiveness.

The Center comprises two primary scientific units:

1. Glycoscience Research Unit

Led by Prof. Dr. Gordan Lauc, this unit investigates how glycosylation patterns influence inflammatory and autoimmune diseases, diabetes, and neurological conditions. Key research areas include:

- Development of glycoproteomics technologies
- Statistical and bioinformatic methods for data analysis
- Investigating glycosylation in immunology and plasma proteins
- Exploring glycosylation's role in diseases and pharmacoglycomics

The unit participates in large European projects, collaborating with leading international researchers, securing significant funding from the European Commission's Framework Program for Research and Development.

2. Functional Food Research Unit

Led by Prof. Dr. Ines Drenjančević, this unit focuses on the development, production, and medical testing of functional foods to promote health and prevent disease. The goal is to create personalized, evidence-based food products that aid in disease prevention, particularly for metabolic and cardiovascular health.

The Center works closely with academic institutions and industry partners to foster collaborations leading to groundbreaking discoveries in personalized healthcare. Through its research and innovation, the Center enhances both scientific knowledge and regional economic and scientific competitiveness globally.

The Center of Excellence for Personalized Health Care represents a leap forward in personalized medicine, offering new insights into how glycan biomarkers and functional foods can improve human health. It bridges cutting-edge scientific research and practical healthcare solutions.