

DOKTORSKÝ STUDIJNÍ PROGRAM/*DOCTORAL STUDY PROGRAM*

VYPSÁNÍ TÉMATU/*LISTING OF TOPIC*

Studijní program/*Study Program*: **Nutrition and Food**

Studijní obor/*Branch of Study*: **program without field**

Katedra/*Department of*: **Center DRIFT-FOOD**

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Forma studia/*Form of Study*: **Full_time**

Typ tématu/*Type of Theme*: **framework**

Téma/Topic: The Use of Advanced Colloidal Systems

Hypotézy/Hypotheses: The advanced colloidal systems can be used in the preparation of functional food and/or supplements. Due to their complex structures, they can work as carriers of sensitive bioactive compounds. By-products and waste from the food chain can be used for the stabilization of these systems.

Anotace/Summary: Advanced colloidal systems are promising systems for the development of new functional food and/or supplements. They include many complex structures such as emulsions, multiple emulsions, gels, foams, oleogels, etc. In general, these structures are complex and enable the encapsulation of sensitive bioactive compounds. The main advantages of advanced colloidal systems are the modification of structures, decreasing fat content, encapsulation, etc. The promising approach is the use of by-products and waste for the stabilization of these systems. So prepared products can offer, novelty, functionality, structure modification, and other benefits.

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V/*In* Prague

dne/*Date*: 31.10.2023

Podpis školitele/*Signature of the Supervisor*:

Podpis konzultanta/ *Signature of the Co-supervisor*:

Podpis vedoucího katedry/*Signature of the Head of the Department*: