Fakulta agrobiologie, potravinových a přírodních zdrojů

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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Konzultant, email/*Co-supervisor, email*:

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

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

Téma/*Topic*: Development of protein-based emulsion gels (PEG) as carriers of bioactive compounds

Hypotézy/*Hypotheses*: Protein-based emulsion gels are tuneable as an effective delivery systém

Anotace/*Summary*: Emulsion gels are constituted by a colloidal system (emulsion) stabilized by a polymeric gel matrix. These systems are more homogeneous and stable than conventional emulsions and can behave as either gel-like or soft-solid. Protein-based emulsion gels (PEG) have been used as carrier systems of bioactive compounds in medicine, food, and nutraceutical sectors. Using biopolymers extracted by-products has resulted in a sustainable way to obtain add-value products with specific applications. This work aims to obtain biopolymers from industry by-products to develop PEG as a carrier of bioactive compounds.

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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*: