



SEMINARI RICERCA E FORMAZIONE

Mercoledì 13 Maggio 2026

ore 10:00-12:00

AULA 207

SEMINARIO/CORSO APERTO A:
Docenti | Teachers, Borsisti | Research
Fellows, Assegnisti | Postdoctoral
researchers, Dottorandi | PhD students,
Studenti | Students, Esterni UNIUPO |
external UNIUPO people

SEMINARIO/CORSO IN LINGUA:
Inglese | English

Colloids and Soft Matter for Enhancing Oral Bioaccessibility of Nutraceuticals

[Dr. Saman Sabet Ghadam Haghighi](#)

Department of Food and Nutrition, University of Helsinki, Finland

Email: saman.sabet@helsinki.fi

This seminar focuses on the design of advanced colloidal and soft matter systems for enhancing the oral bioaccessibility of nutraceuticals. Control of the transport, stability, and release of nutraceuticals within the gastrointestinal tract will be discussed. The lecture will further examine how colloidal transformations during digestion influence nutraceutical solubilization and absorption, as well as physiological feedback mechanisms such as the ileal brake. Mucoadhesive delivery systems will be presented as a key strategy to enhance gastrointestinal retention and absorption. In vitro digestion simulation techniques will be highlighted as essential tools to link material structure with functional performance and to predict in vivo behavior. Overall, the seminar outlines how rationally engineered soft material systems can be used to modulate gastrointestinal processing and improve oral bioaccessibility of nutraceutical compounds.

Il seminario è promosso dal Prof. Geo Paul

