



New Trends and Perspectives on In Vitro Digestion Processes and Applications

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Message from the Guest Editors

The bioavailability of food intake is assessed using indicators of intake of nutrients. Due to the difficulties in accessing intestinal contents in vivo, in vitro food absorption performance models were developed.

Most of the models used comprise two or three stages, and include stomach–intestine systems, thin oral cavity–stomach–small intestine systems, or stomach–small intestine–large intestine systems. Dialysis systems, ultrafiltration, or in vitro intestinal epithelial cell culture models are used as models for nutrient absorption studies.

Topics of interest include, but are not limited to:

- Presentation of novel in vitro digestion models;
- Digestibility and bioavailability of nutrients: proteins, lipids, carbohydrates;
- Digestibility and bioavailability of other bioactive substances: lipid and water soluble;
- Transformation and interactions between components of food during in vitro digestion;
- Changes in numbers and activity of faecal bacteria during in vitro digestion;
- Simulation of small-intestinal epithelium.





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Message from the Editor-in-Chief

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