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Interest of prebiotics in the management of cardiometabolic diseases

[Intérêt des prébiotiques dans la prise en charge des maladies cardiométaboliques]

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Delzenne, Nathalie M.  ; Neyrinck, Audrey M.

Université catholique de Louvain, Metabolism and Nutrition Research Group, Louvain Drug Research Institute, UCLouvain, Brussels, Belgium

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Abstract

Prebiotic dietary fibers are nutrients selectively used by gut microorganisms that confer a health benefit. In the context of obesity and cardiometabolic diseases, placebo-controlled studies reveal individual variability in the favorable metabolic response to prebiotics, which depends, in particular, on the initial composition and evolution of the gut microbiota during the intervention, medication treatments, or the implementation of other concurrent measures (such as physical exercise). Among the mechanisms proposed to explain the metabolic effects of prebiotics, the promotion of endogenous secretion of glucagon-like peptide 1 (GLP-1) appears to be an interesting avenue to explore, given the growing interest in GLP-1 analogs for the treatment of obesity and diabetes. © 2024 Elsevier Masson SAS

Author keywords

Metabolic diseases; Microbiota; Prebiotics

Indexed keywords

EMTREE drug terms

glucagon like peptide 1; placebo; prebiotic agent

EMTREE medical terms

controlled study; dietary fiber; drug therapy; exercise; human; intestine flora; metabolic disorder; microflora; nonhuman; obesity; short survey

Chemicals and CAS Registry Numbers

Unique identifiers assigned by the Chemical Abstracts Service (CAS) to ensure accurate identification and tracking of chemicals across scientific literature.

glucagon like peptide 1	89750-14-1
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Corresponding authors

Corresponding author	N.M. Delzenne
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Affiliation	Université catholique de Louvain (UCLouvain), Metabolism and Nutrition Research Group, avenue E.-Mounier 73, Bruxelles, 1200, Belgium
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Email address	nathalie.delzenne@uclouvain.be
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Abstract

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