

Intestinal Lipid Metabolism

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Intestinal Lipid Metabolism

Lipid Metabolism Lipolysis. To obtain energy from fat, triglycerides must first be broken down by hydrolysis into their two principal... Ketogenesis. If excessive acetyl CoA is created from the oxidation of fatty acids and the Krebs cycle is overloaded and... Ketone Body Oxidation. Organs that have ...

Lipid Metabolism | Anatomy and Physiology II

Intestinal Lipid Metabolism Genes Regulated by miRNAs Introduction. Lipid metabolism consists of anabolic and catabolic processes, in which the intestinal epithelium plays a... Results and Discussion. Lipid Metabolism Genes Modulated by the Loss of Intestinal Dicer 1 The intestine is considered... ...

Frontiers | Intestinal Lipid Metabolism Genes Regulated by ...

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Schematic intracellular network required for lipid metabolism, Apo B biogenesis, and CM assembly in the enterocyte. Digestion takes place in the intestinal lumen where TGs, CEs, and GPs are hydrolyzed by pancreatic lipase, cholesterol esterase, and phospholipase...

Thematic Review Series: Intestinal Lipid Metabolism: New ...

Abstract. Lipids entering the gastrointestinal tract include dietary lipids (triacylglycerols, cholesteryl esters and phospholipids) and endogenous lipids from bile (phospholipids and cholesterol) and from shed intestinal epithelial cells (enterocytes). Here, we comprehensively review the digestion, uptake and intracellular re-synthesis of intestinal lipids as well as their packaging into pre-chylomicrons in the endoplasmic reticulum, their modification in the Golgi apparatus and the ...

Regulation of intestinal lipid

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metabolism: current ...

As a result, our understanding of the role of the intestine in lipid metabolism now includes an expanded role in a range of homeostatic processes, including glucose metabolism, energy utilization, and growth and inflammation to name but a few. Our Thematic Review Series will selectively cover several of these areas.

Intestinal Lipid Metabolism - Journal of Lipid Research

Radiation enteritis (RE) is a common complication in cancer patients receiving radiotherapy. Although studies have shown the changes of this disease at clinical, pathological and other levels, the dynamic characteristics of local microbiome and metabolomics are hitherto unknown. We aimed to examine the multi-omics features of the gut microecosystem, determining the functional correlation ...

Alterations of the Gut Microbiome

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Composition and Lipid ...

Expression of full-length wildtype DGAT1 or DGAT2 restored normal lipid metabolism in these cells. These findings indicate the importance of DGAT1 in fat metabolism and lipotoxicity in the intestinal epithelium. A fat-free diet might serve as the first line of therapy for patients with reduced DGAT1 expression.

Intestinal Failure and Aberrant Lipid Metabolism in ...

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Intestinal Failure and Aberrant Lipid Metabolism in ...

Given that EndEx programs lipid

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metabolism in adipose, muscle, and liver and that the small intestine mediates processing dietary fat for systemic delivery and modifies the risk of development of obesity and diabetes, we hypothesized that EndEx programs intestinal lipid metabolism that is dysregulated in HIO to reduce obesity and type 2 diabetes.

Endurance exercise training programs intestinal lipid ...

Although increasing evidence indicates an important role of fatty acids and PPAR γ in health and pathology of the intestinal mucosa, alterations of fatty acid metabolism itself are only poorly understood so far.

Alterations in intestinal fatty acid metabolism in ...

Cardiology; OBJECTIVE: The aim of this study was to explore the correlations of changes in inflammatory factors, glucose and lipid metabolism indicators and adiponectin with alterations in

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intestinal flora in rats with coronary heart disease. MATERIALS AND METHODS: A total of 30 male specific pathogen-free rats were randomly assigned into two groups, including: blank group (n=15) and coronary ...

Correlations of changes in inflammatory factors, glucose ...
Intestinal epithelial absorption of dietary lipids is a major determinant of animal energy balance and metabolic health. Recent studies uncovered significant roles for intestinal microbiota in this process, but underlying mechanisms remain unresolved. Araújo et al. (2020)

Feeling the Burn: Intestinal Epithelial Cells Modify Their ...
Research Description. Pancreatic beta cells are key regulators of metabolism. Responding to a rise in blood glucose after food intake, they secrete the hormone insulin, coordinating the use of nutrients in many organs to lower blood glucose. When beta cells are unable to

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meet the insulin demand, because of diminished beta cell mass or impaired responses of other organs to insulin, diabetes occurs.

Intestinal lipid metabolism, gut microbiome, and ...

Endogenous lipid metabolism
Lipoproteins synthesized by the liver transport endogenous triglycerides and cholesterol. Lipoproteins circulate through the blood continuously until the TGs they contain are taken up by peripheral tissues or the lipoproteins themselves are cleared by the liver.

Overview of Lipid Metabolism - Endocrine and Metabolic ...

Researchers from Kumamoto University in Japan analyzing the influence of changes in intestinal bacteria on sugar and lipid metabolism have found that secondary bile acids produced by the bacteria...

How intestinal bacteria can affect

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your blood sugar and ...

File Type PDF Intestinal Lipid Metabolism media is a reflection of the absorption of dietary lipids, since these have not yet been subjected to hepatic metabolism and been diluted within the endogenous plasma pool. Intestinal Lipid Metabolism | SpringerLink The present study was conducted to determine the effects of waterborne

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The Intestinal Microbiota Influences Dietary Lipid Uptake The bacterial population of the intestine also plays an important role in dietary lipid uptake and metabolism.

Frontiers | Lipid Uptake, Metabolism, and Transport in the ...

Effects of probiotic agents on lipid metabolism gene expression As a key gene for cholesterol metabolism, CYP7A1 in the liver could decompose cholesterol into bile acids and regulate

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the bile acid metabolism. Our results showed that the gene expression of CYP7 A1 decreased after the high-choline diet (Fig. 8).

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