

Terme à utiliser dans Pubmed



 français

Osteochondritis Dissecans

✕ 

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ostéochondrite disséquante [Descripteur MeSH]

Ostéochondrite disséquante familiale [MeSH Concept Supplémentaire]

arthrophytes [Descripteur MeSH]

MeSH (3)

**Ostéochondrite disséquante** (Descripteur MeSH) 

Description

Hiérarchies

Relations

PubMed / Doc'CISMeF






Voir toutes les langues 

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Libellé préféré

 ostéochondrite disséquante

 osteochondritis dissecans

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**PUBMED** est une **ressource gratuite** développée par le National Center for Biotechnology Information (NCBI), à la National Library of Medicine (NLM)

PubMed signale des références issues :

- de la base **Medline** (indexées par les mots clés du **MESH**)
- des références très récentes envoyées par les éditeurs.

**Domaines couverts** : médecine, soins infirmiers, dentisterie, médecine vétérinaire, système de soins de santé.

**Contenu** : **30** millions de références (articles de revues / ouvrages). Les articles de la base Medline proviennent de 5228 revues.

**Période couverte** : 1946 -

# La recherche dans la base Pubmed

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ARTICLE ATTRIBUTE

1 **Lowering ceramides to overcome diabetes.**  
Kusminski CM, Scherer PE.  
Science. 2019 Jul 26;365(6451):319-320. doi: 10.1126/science.aax6594.  
PMID: 31346052 No abstract available.

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2 **Cellular Senescence in Type 2 Diabetes: A Therapeutic Opportunity.**  
Palmer AK, Tchkonja T, LeBrasseur NK, Chini EN, Xu M, Kirkland JL.  
Diabetes. 2015 Jul;64(7):2289-98. doi: 10.2337/db14-1820.  
PMID: 26106186 Free PMC article. Review.  
Accumulation of senescent cells occurs during aging and is also seen in the context of obesity and diabetes. Senescent cells may play a role in type 2 diabetes pathogenesis through direct impact on pancreatic  $\beta$ -cell function, senescence-associated secretory phenotyp ...

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## La référence : format Summary

### Source :

Titre de la revue (abrégé) /Date / Pagination /DOI

☐ **Skeletal muscle *ceramides* and daily fat oxidation in obesity and *diabetes*.**

9 Broskiy NT, Obanda DN, Burton JH, Cefalu WT, Ravussin E.

Metabolism. 2018 May;82:118-123. doi: 10.1016/j.metabol.2017.12.012. Epub 2018 Jan 4.

PMID: 29307520 [Free PMC article.](#)

BACKGROUND/OBJECTIVES: Ectopic accumulation of lipids in skeletal muscle and the formation of deleterious lipid intermediates is thought to contribute to the development of insulin resistance and type 2 **diabetes mellitus** (T2DM). ...Despite low amounts of muscle c ...

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## La référence : format Abstract

> [Metabolism](#). 2018 May;82:118-123. doi: 10.1016/j.metabol.2017.12.012. Epub 2018 Jan 4.

### Skeletal Muscle Ceramides and Daily Fat Oxidation in Obesity and Diabetes

Nicholas T Broskey<sup>1</sup>, Diana N Obanda<sup>1</sup>, Jeffrey H Burton<sup>1</sup>, William T Cefalu<sup>1</sup>, Eric Ravussin<sup>2</sup>

Affiliations + expand

PMID: 29307520 PMCID: [PMC5930033](#) DOI: [10.1016/j.metabol.2017.12.012](#)

[Free PMC article](#)

#### Abstract

**Background/objectives:** Ectopic accumulation of lipids in skeletal muscle and the formation of deleterious lipid intermediates is thought to contribute to the development of insulin resistance and type 2 diabetes mellitus (T2DM). Similarly, impaired fat oxidation (metabolic inflexibility) are predictors of weight gain and the development of T2DM; however, no study has investigated the relation between muscle ceramide accumulation and 24-hour macronutrient oxidation. The purpose of this study was to retrospectively explore the relationships between whole body fat oxidation and skeletal muscle ceramide accumulation in obese non-diabetic individuals (ND) and in people with obesity and T2DM.

**Methods:** Daily substrate oxidation was measured in a respiratory chamber and skeletal muscle ceramides were measured using liquid chromatography-electrospray ionization tandem-mass spectrometry.

**Results:** After adjusting for sex, age, and BMI, no differences existed between the groups for fat oxidation or 24-h RQ. However, ceramides C18:1, C:20, C22, C24 and C24:1 were significantly higher in people with T2DM compared to ND whereas no differences existed for C16 and C18. Despite low amounts of muscle ceramides, fat oxidation rates were positively associated with ceramide species concentration in ND only. Our data suggests that ceramides do not interfere with whole-body fat oxidation in ND individuals whereas a persistent lipid oversupply results in excessive ceramide muscle accumulation in people with T2DM.

**Trial registration:** ClinicalTrials.gov [NCT00398853](#) [NCT01672632](#) [NCT00936130](#).

**Keywords:** Energy expenditure; Lipotoxicity; Type 2 diabetes.

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> [Diabetologia](#). 2018 Dec;61(12):2570-2579. doi: 10.1007/s00125-018-4720-1. Epub 2018 Aug 29.

**Relation of Plasma Ceramides to Visceral Adiposity, Insulin Resistance and the Development of Type 2 Diabetes Mellitus: The Dallas Heart Study**