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Role of pro- and anti-inflammatory phenomena in the physiopathology of type 2 diabetes and obesity

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Abstract

In obesity, persistent low-grade inflammation is considered as a major contributor towards the progression to insulin resistance and type 2 diabetes while in lean subjects the immune environment is non-inflammatory.

Massive adipose tissue (AT) infiltration by pro-inflammatory M1 macrophages and several T cell subsets as obesity develops leads to the accumulation - both in the AT and systemically - of numerous pro-

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Role of inflammatory mechanisms in the pathogenesis of type 2 diabetes

https://www.researchgate.net/.../230880307_Role_of_inflammatory_mechan... ▾ [翻译此页](#)

2016年8月4日 - Type 2 diabetes mellitus (T2DM) is characterized by progressive β -cell dysfunctioning ... Here we have also summarized the role of various pro-inflammatory mediators involved observed in animal models of obesity [Hosogai et al., 2007; Yin ... of NF- κ B activation by naturally occurring anti-inflammatory.

Inflammation in Obesity and Diabetes: Islet Dysfunction and ...

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作者: MY Donath - 2013 - 被引用次数: 92 - 相关文章

2013年6月4日 - The role of the immune system is to restore functionality in response to ... pathology of the immune system during obesity and diabetes with a ... Therefore, type 2 diabetes can be considered as an inflammatory ... It is likely that, in the case of islet inflammation in type 2 diabetes, similar phenomena occur.

Obesity and Inflammation: Epidemiology, Risk Factors, and Markers of ...

<https://www.hindawi.com/journals/ije/2013/678159/> - [翻译此页](#)

作者: H Rodríguez-Hernández - 2013 - 被引用次数: 105 - 相关文章

2013年3月27日 - Obesity and inflammation have been associated with type 2 diabetes, The main source of pro-inflammatory cytokines in obesity is the adipose tissue; they ... IL-6 is a cytokine that plays important roles in acute phase reactions, action, a central problem in the pathophysiology of type 2 diabetes [174].


Obesity Induced Metaflammation: Pathophysiology and Mitigation ...

www.omicsonline.org/.../obesity-induced-metaflammation-pathophysiology... ▾ [翻译此页](#)

作者: M Debnath - 2016 - 被引用次数: 1 - 相关文章

In brief, there occurs an evidential increase in pro-inflammatory cytokines released Muscle: The



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Obesity and Its Metabolic Complications: The Role of Adipokines and ...

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作者: UJ Jung - 2014 - 被引用次数: 221 - 相关文章

2014年4月11日 - Obesity increases the risk of developing a variety of pathological conditions, The free fatty acids and pro-inflammatory adipokines It has long been recognized that obesity is associated with type 2 diabetes, and the major basis ... In the adipose tissue, insulin also has an anti-lipolytic effect, whereby the ...

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Mechanisms of Obesity-Induced Inflammation and Insulin Resistance ...

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作者: MA McArdle - 2013 - 被引用次数: 135 - 相关文章

2013年5月10日 - Significant advances in understanding the highly complex role of ... Consequently obesity is linked to pro-inflammatory cytokine secretion, Major cell types involved in obesity-induced inflammation and insulin Anti-inflammatory CD4+ T helper (TH) 2 cells secrete IL-4 and IL-13 (Winer et al., 2009a).

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作者: E Nigro - 2014 - 被引用次数: 79 - 相关文章

2014年7月7日 - Protective anti-inflammatory role of HMW oligomers has been ... are thought to play key roles in the activation of a variety of pathological ... Association of adiponectin mutation with type 2

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作者: UJ Jung - 2014 - 被引用次数: 229 - 相关文章

2014年4月11日 - **Obesity** increases the risk of developing a variety of **pathological** conditions, The free fatty acids and **pro-inflammatory** adipokines It has long been recognized that **obesity** is associated with **type 2 diabetes**, and the major basis ... In the adipose tissue, insulin also has an **anti-lipolytic** effect, whereby the ...

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Mechanisms of Obesity-Induced Inflammation and Insulin Resistance ...

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作者: MA McArdle - 2013 - 被引用次数: 138 - 相关文章

2013年5月10日 - Significant advances in understanding the highly complex **role** of ... Consequently **obesity** is linked to **pro-inflammatory** cytokine secretion, Major cell **types** involved in **obesity**-induced inflammation and insulin **Anti-inflammatory** CD4+ T helper (TH) 2 cells secrete IL-4 and IL-13 (Winer et al., 2009a).

Diabetes and vascular disease: pathophysiology, clinical ... - NCBI - NIH

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作者: F Paneni - 2013 - 被引用次数: 263 - 相关文章

2013年5月2日 - **Type 2 diabetes**, the most common form of the disease, may remain p65 and, hence, transcription of **pro-inflammatory** genes encoding ... **Obesity** plays a pivotal **role** in this **phenomenon** providing an miR-126 expression was reduced in EPCs isolated from diabetics and transfection with **anti-miR-126** ...

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