

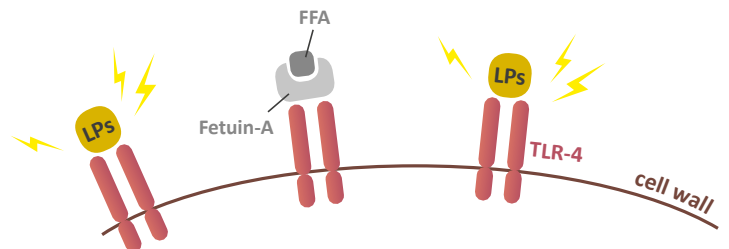
LPs (Lipopolysaccharides)

Lipopolysaccharides (LPs) are Gram negative bacilli's outer membran components which, due to a microbiota imbalance, go through intestinal barrier stimulating non-specific innate immunity. Loss of microbiota mutualism leads to intestinal inflammation and permeability, promoting LPs translocation into systemic circulation.

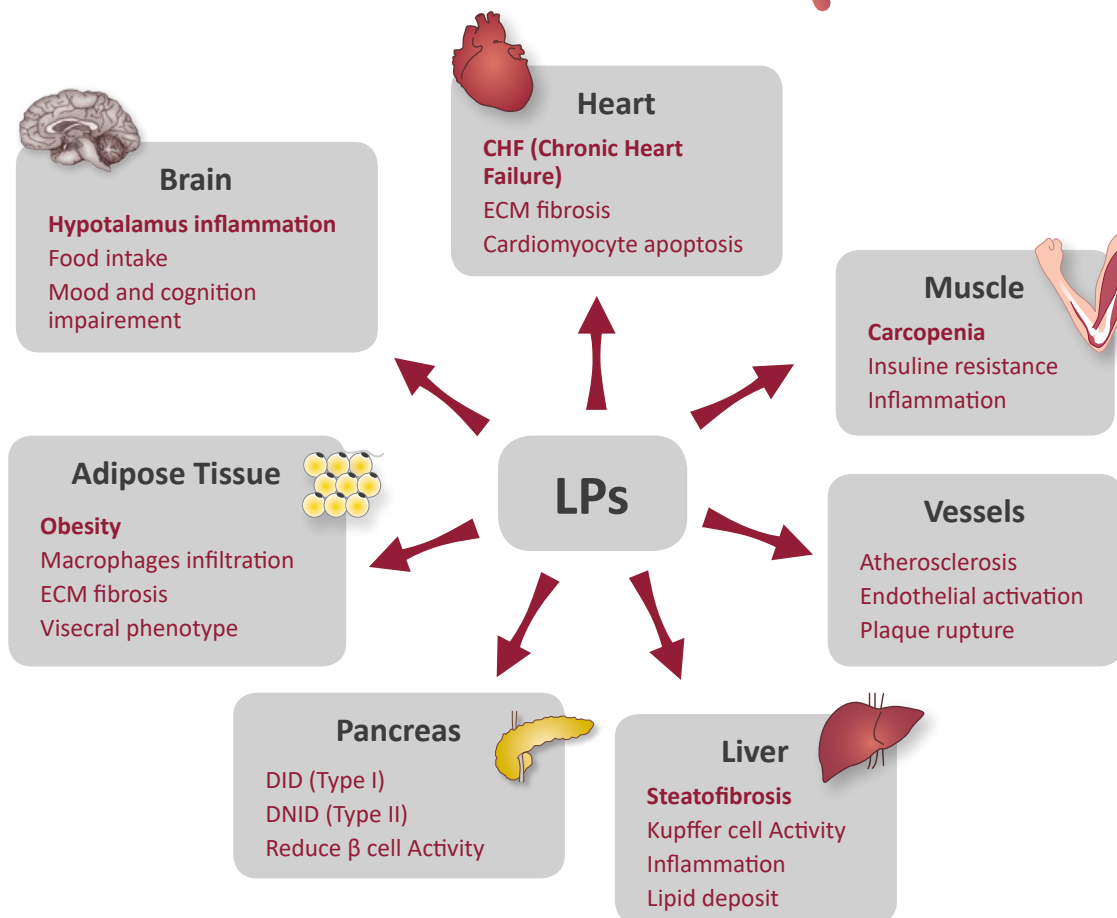
LPs stimulates TLR-4 (Toll Like Receptor of type 4) present on all immune cells but also, in much lower quantity, on several organ cells including liver, pancreas, kidneys, heart, brain and especially hypothalamus, adipose tissue and endothelial cells.

TLR-4 stimulation promotes :

- Visceral fat
- Metabolic syndrome, obesity
- Diabetes
- Atheroma, CAD (coronary artery diseases) and heart failure (CHF)
- Osteoporosis (Adonis phenotype)
- Neurodegenerative diseases
- Steatofibrosis



FFA : Free Fatty Acids.
Fetuin-A : Liver adaptor protein.



Sources :
- Gut Microbiota, Lipopolysaccharides, and Innate Immunity in the Pathogenesis of Obesity and Cardiovascular Risk *Endocrine Reviews* Vol. 31 Issue 6 Décembre 2010 p.817-p.844 **Melania Manco, Lorenza Putignani, Gian Franco Bottazzo**
- TLR4 at the Crossroads of Nutrients, Gut Microbiota, and Metabolic Inflammation. *Endocrine Reviews*, June 2015, 36(3):245-271 **Licio A. Velloso, Franco Folli, and Mario J. Saad**

High level of LPs demonstrates the microbiota hostility, its contribution to overweight and obesity and its pathogenic role in all previously named diseases.



119, av. Philippe Auguste
75011 PARIS - FRANCE
Tel. (33) 01 43 67 57 00
contact@labbio.net



LABORATOIRE
PHILIPPE AUGUSTE

LABORATOIRE PHILIPPE AUGUSTE

119 avenue Philippe Auguste

75011 PARIS – FRANCE

Tél : (33) 01 43 67 57 00 Fax : 01 43 79 00 27

HORAIRES D'OUVERTURE

Lundi-Vendredi : 7h30 à 18h30

Samedi : 8h00 à 13h00

Prélèvement à domicile sur rendez-vous

Site internet : www.labbio.net / Mail : contact@labbio.net

M. Subject LPS

Dossier n° B171123024
Résultats de M. Subject LPS
Né(e) le 15/10/1947 (70 ans)

MAIN PROPRE

Dossier enregistré le : 23/11/2017 à 14:48

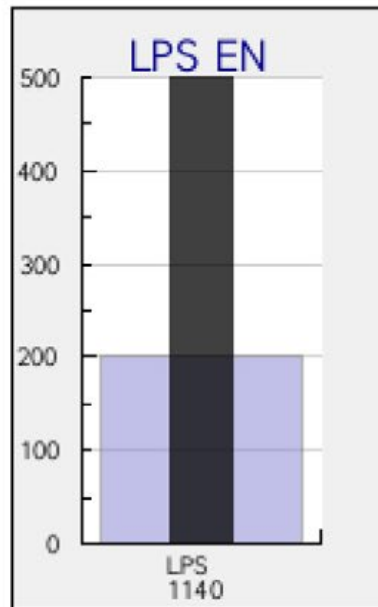
Compte-rendu complet
Edition le Jeudi 23 Novembre 2017 à 15:50

MICROBIOTE

↑ LPS
(Lipopolysaccharides bactériens)

5.7 EU/ml

(0.0–1.0)



Commentary

Really increased systemic diffusion of intestinal bacterial Lipopolysaccharid (LPs).