

Project PENSINE by LIRIC (Lille Inflammation Research International Center)



Founded

2001

Main mission

Develop scientific and medical research to understand and treat inflammatory diseases.

[Website of LIRIC](#)

Scope of action

International

Objectives

- to identify the nutritional, environmental, immune and bacterial causes of pathological inflammatory phenomena
- to discover the biomarkers predictive of the triggering and progression of inflammatory diseases
- to develop new treatments (molecules, cell therapies, immunotherapies, etc.)

PENSINE Project

(Périnatalité, ENvironnement, Santé Intestinale et Nutrition de l'ENfant – perinatality, environment, childhood intestinal health and nutrition)

What?

During the first 1000 days of life (from conception to the age of two years), nutrition appears to be a key determinant of the child's health and of the risk of chronic disease throughout life. The PENSINE study is based on the study of the relationship between exclusive breast-feeding for 3 months and the child's intestinal health to the age of 4. For this, 350 mother-child pairs from the Jeanne de Flandres maternity in Lille (leading European maternity in terms of number of births) will be monitored for a period of 4 years.

How?

- by studying the pregnant woman's diet, her clinical history and lifestyle, along with the child's diet from birth (exclusive breast-feeding, mixed breast-feed or bottle-feeding)
- by monitoring the child's changing diet up to the age of 4 (type of breast-feeding, age at diversification, administration of prebiotics and/or probiotics, etc.)
- by collecting and analyzing samples of stools, umbilical blood and the child's blood

Why?

This study will eventually allow us to formulate new recommendations to pregnant women for their infants, with a view to modulating the child's health trajectory and to prevent the onset of chronic intestinal ailments. This project also presents the advantage of promoting breast-feeding and correct eating behaviors upon diversification of the child's diet.

Duration of support

For 4 years

