



Acronym: M1.1.C/C.S./050/2021/01

Cost Center: 1096

Operation Code: M1.1.C/C.S./050/2021/01

Title: Modulation of gut microbiota by fennel seed extracts: New insights on treatment of infantile colic and other gut disorders in infants

Start-End: 14-02-2022 - 11-09-2024

Entidade Beneficiária Principal: FGF - Fundação Gaspar Frutuoso, FP

Gestores da FGF: [Gonçalo Goulart](#), [Paula Oliveira](#)

Responsible Researcher: [Célia Costa Gomes da Silva](#)

R&D Units: [IITAA - Instituto de Investigação em Tecnologias Agrárias e do Ambiente](#)

ENTIDADE	MONTANTE
Direção Regional da Ciência e da Tecnologia (100.0 %)	18.000,00 €

Project Description:

With this project it is expected that the mechanisms underlying the etiology of infantile colic will be elucidated and that a symbiotic formulation for the prevention and treatment of this condition is presented. After taking a infusion of fennel seeds by the mothers, they will be asked to collect samples of their own breast milk and the provide stool samples from your babies. Samples will be collected at the beginning and end of the intervention to identify and quantify the specific microbiota. Breast milk and baby stool samples will also be used in the isolation of potential probiotic bacteria. Fennel extracts will be analyzed to identify the compound(s) responsible for the expected prebiotic effect. The digestion profiles of breast milk before and after the intervention will also be investigated, as well as the prebiotic effect of the compounds identified in the extracts of fennel and breast milk.