

APPLICATIONS OF BACTERIUM *P. FAECIUM* FOR THE TREATMENT OF OBESITY

DESCRIPTION OF THE TECHNOLOGY

CSIC and the University of Valencia have discovered the beneficial properties of the bacterium *Phascololarctobacterium faecium* for the regulation of food disorders such as obesity. This discover supposes an advance for the reduction and the treatment of diseases associated with obesity, such as type 2 diabetes and intestinal disorders.

The research team has worked with *P. faecium* and has discovered that this bacterium, which forms part of the gut microbiota in humans, develops a

fundamental role in the prevention and treatment of gut inflammatory processes, what contributes to recover the adequate functioning of the digestive system and prevents the appearance of associated diseases. Specifically, experiments have allowed to clarify the relationship between this bacterium and the reduction of weight and body fat. Furthermore, it has been seen that fatty acids produced by this bacterium induce to satiety and therefore reduces appetite and the feeling of hunger, while at the same time contributes to strengthen immunological system.

MARKET APPLICAITON SECTORS

Pharmaceutical and food sectors.

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

- Treatments that use probiotics such as *P. faecium* is less aggressive and less invasive tan treatments with synthetic drugs.
- Preclinical studies have been conducted and showed positive results with respect to its efficacy and safety.
- Toxicological studies in *P. faecium* have demonstrated the safety of the strain.

CURRENT STATE OF DEVELOPMENT

The technology has been satisfactorily tested in laboratory. Preclinical essays have been conducted satisfactorily.

INDUSTRIAL AND INTELLECTUAL PROPERTY RIGHTS

PCT patent application filed.

COLABORATION SOUGHT

Companies in the nutrition or pharma sectors interested in the license of the patent for its industrial application and commercialization are being sought.

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Image 1. Bacterium P. faecium has a fundamental role in the metabolic regulation in healthy individuals.

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