



**TecMinho**

<http://www.tecminho.uminho.pt/>

## BILATERAL MEETINGS

Wednesday 10:40 h – 13:00 h

Wednesday 14:00 h – 18:00 h

**DESCRIPTION** TecMinho is the Knowledge Transfer Office of the University of Minho. Main services: R&D and innovation partnerships; contract research; IP management, protection and licensing; ignition and acceleration programmes.

**ORGANIZATION TYPE** Association/Agency

**FOUNDING YEAR** 1990

**AREAS OF ACTIVITIES** OTHER

## Offer

### □ NANOFUNCTIONALIZED AND BIOACTIVE SURFACES FOR IMPROVED OSSEOINTEGRATION OF DENTAL IMPLANTS

The use of dental implants is many times accompanied by failure associated with the healing process, specifically the osseointegration process, and with the occurrence of infections. As a result, the development of medical implants with improved bioactivity and reduced changes of causing infections is a major interest of the market. With this goal in mind, an innovative surface able to overcome these problems is being developed, presenting a tantalum coating and increased bioactivity and osseointegration capacity. To avoid infections, antibacterial properties will be added to the implants.

## COOPERATION OFFERED

1. License agreement
  2. Investment/Financing
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## Offer

### □ PCR MULTIPLEX SYSTEM FOR FUNGAL DIAGNOSIS

Fungal infections are difficult to detect and frequently treated without performing specific diagnostics first. A new method with specific primers was developed with the aim of quickly detecting the most common fungal systemic infection causing species in humans. It allows to detect and identify 9 *Candida* (*C. albicans*, *C. glabrata*, *C. krusei*, *C. parapsilosis* and *C. tropicalis*) and *Aspergillus* (*A. fumigatus*, *A. flavus*, *A. niger* and *A. terreus*) species in human samples with total specificity and sensitivity.

## COOPERATION OFFERED

1. License agreement
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## Offer

### □ REPURPOSING CITALOPRAM FOR THE TREATMENT OF MACHADO-JOSEPH DISEASE.

Machado-Joseph or spinocerebellar ataxia 3 is a neurodegenerative and highly incapacitating disease. After screening several molecules, the antidepressant Citalopram has been identified as a promising drug for the treatment of this disease. The repurposing of this antidepressant has shown promising preclinical results in mice, demonstrating its potential to delay the onset and progression of the motor symptoms that characterise this disease.

## COOPERATION OFFERED

1. License agreement
  2. Investment/Financing
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## Offer

# ANTIPEP - ANTIMICROBIAL FORMULATION FOR IMPLANTABLE MEDICAL DEVICES.

Implantable medical devices such as prosthetics and catheters are known to cause infections. Antimicrobial treatment is not always effective, especially in cases of biofilm formation, what can ultimately cause the rejection of the implant. A novel antimicrobial formulation and coating for implantable devices was developed with the aim of preventing infections. It reduces microbial adhesion to the surface and eliminates microbes that can adhere.

## COOPERATION OFFERED

1. License agreement
  2. Investment/Financing
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## Offer

# MAGNETIC BIOREACTOR FOR CELL CULTURE AND BIOMEDICAL APPLICATIONS

Despite the several types of bioreactors available, there is still a lack of solutions for the reproduction of endogenous biophysical signals present in the cells' natural environment. Cells physical stimulation is important for several cellular processes and can have a vital role in cell differentiation and engineering of nerve and muscle cells. This new magnetic bioreactor was developed in order to provide a more realistic scaffold for cell growth and culture.

## COOPERATION OFFERED

1. License agreement
  2. Investment/Financing
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