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## Technology offer

### ***Kit for the development of lentiviral expression libraries of miRNAs***

A Spanish public research organisation has patented a kit for the development of microRNAs (miRNAs) expression libraries for its use in medical research. The development is based on the direct cloning of miRNAs in the vector of choice, especially lentiviral vectors, using conventional methods for cloning double stranded RNAs. They are looking for industrial partners to reach Technical Cooperation or License Agreements.

### ***Method of diagnosis of neuromuscular diseases***

Two public research organisations and one university from Spain have developed a procedure to diagnose, in an automatic way, different neuromuscular diseases and their degree of involvement. The method is based on the application of the network theory to characterize the organization of tissues and enable to perform comparative histological studies from biopsy of skeletal muscle tissue of a patient. They are looking for industrial partners to reach Technical Cooperation or License Agreement.

### ***Sunflower oil with high phytosterol content***

A Spanish public research organisation has devised and filed a patent application on sunflower oils with high phytosterol content, up to three times the content of regular oils. This high phytosterol content gives the oil a high nutritional value due to their capacity to reduce the blood cholesterol levels and makes their extraction to be used as ingredients for nutraceutical compositions feasible. Plant breeding, oil and/or functional food companies are sought for licence agreements.

### ***New method for the joint capture of CO<sub>2</sub> and SO<sub>2</sub>***

A research group from a Spanish University in collaboration with other research institutions has developed a new process aimed at the capture of CO<sub>2</sub> and SO<sub>2</sub> gases that are responsible for the greenhouse effect. This process is based on the use of residues rich in calcium. They are looking for an industrial partner to reach a licence agreement or a technical cooperation agreement.

### ***New sensor-technology for measuring dynamic pressure loads with high accuracy***

A German university institute has developed a FRET-based (Fluorescence resonance energy transfer) sensor-technology offering exact measuring of dynamic pressure loads. This innovative development works independent of temperature in any gas or fluid phase with customisable pressure sensitivity and is applicable in designing energy-efficient automobiles and airplanes. The institute is looking for licensing and/or industrial partners to mature the new technology.

### ***Intelligent Indoor Parking system***

A small Hungarian company has been developing an indoor positioning and navigation system called iParking for vehicle navigation based on wireless and optical technologies. The prototype of the system is deployed in the parking garage of a shopping mall. Advantages include reduced time in parking lot seeking, decreased human power in traffic control, reduced CO2 emission and less driver frustration. The company seeks industrial partners interested in licence agreement and further development.

### ***Wireless sensor networking in a new level***

A Hungarian university has developed a new wireless mesh networking technology that is suitable for an array of applications from smart metering purposes to environmental monitoring, medical sensors, or automation. Compared to other technologies the novel protocol stack remains lightweight and energy efficient in spite of the capabilities included. The company is looking for industrial partners for license agreement or joint venture opportunity.

### ***Biodegradable and biocompatible material to manufacture implants for bone tissue repair and regeneration***

Two public research organisations, a hospital and a university from Spain have produced a material for bone implants consisting of a polymeric matrix with added magnesium particles. It is biocompatible and biodegradable, has a long degradation rate and shows mechanical properties (deformability and elasticity) comparable to the human bone, being optimal for bone tissue regeneration or repair.

Companies interested in manufacturing implants with this material under a patent licence are sought.

### ***Device to measure the concentration of biomass of the environment***

Spanish public research institution has developed a device for measuring low concentrations of biomass of the environment by means of impedance measurements. The device is characterized for being fast, simple, versatile and very reliable, capable of measuring concentrations up to  $10^2$  cfu·cm<sup>-3</sup> at very short exposure times, surpassing the techniques traditionally used. Partners are being sought to exploit the existing know-how through a patent License agreement.

### ***Compact and automated printing concept for t-shirts***

A small research and manufacturing company from Macedonia has developed a novel concept - an automated mechanism for printing on t-shirts. The offered technology can be utilized both manually and automatically with possibility for screen printing on different types of textiles in one or more (4, 6 or 8) colors.

The company is looking for textile producers, manufacturing organizations and companies for commercial agreements with technical assistance or technical collaboration.

### ***Turning night into day: developing a revolutionary automotive safety imaging system, offering unmatched 24-hour and all weather vision and computerized obstacle detection capabilities***

An Israeli R&D company, which develops revolutionary vision-based safety solutions for the automotive industry, is designing an innovative night vision technology, specifically intended to provide drivers with improved driving safety at night and in bad weather. The company is looking for an R&D partner for further development of the technology.

### ***Kratky type X-ray scattering cameras modified to work under controlled atmosphere conditions***

A public research organisation has developed a new type of Kratky camera for X-ray scattering which allows handling and characterizing samples in a controlled environment without additional devices. This technology may be applied in any of the X-ray scattering techniques: SAXS, WAXS, GISAXS and GIWAXS.

Partners are sought for the development of the technology under licence, as well as further commercialization.

### ***Biodegradable end caps for steel, plastic and paper tubes***

A Swedish SME has developed an environmentally friendly end cup/plug to protect tubes while transported or stored by preventing foreign material to be entered into the tube. The protective end cups are made of a fibre based material that are biodegradable and recyclable and have a high strength.

Partners are searched for further development of material properties, further development of manufacturing method to ensure a higher production capacity, testing and commercialisation.

## **Technology requests**

### ***PS-CIP-Eco-Innovation: Biobased material for packaging or structural applications as an EPS substitute***

A Dutch company which is currently in the negotiation phase for a large EU Eco-Innovation grant is urgently looking for additional partners that can contribute on (international) market introduction and application development of biobased material for packaging or structural applications as an EPS(expanded polystyrene) substitute on the basis of natural fibres.

## ***PS FP7: SME Sought for Development of an Innovative Solution for Positioning XXL Parts During Assembly***

A consortium, led by a German non-profit R&D company that focuses on XXL products, e. g. wind turbines, airplanes, and ships, is due to set up an FP7 "Research for SMEs" project in order to improve the assembly of XXL products by means of an optical positioning system.

The consortium is looking for enterprises that want to contribute to the development of the system. Expertise is sought in the field of handling & assembly technology, machine & vehicle control, and XXL production.