

# network

## enterprise europe

### Wales

## Bio Tech Alert March 2010

The following are a selection of biotechnology technology transfer offers and requests promoted by Enterprise Europe Network Wales.

If any of these technology opportunities are of interest, contact [sharon.thomas@wales.gsi.gov.uk](mailto:sharon.thomas@wales.gsi.gov.uk) or [alyson.smith@wales.gsi.gov.uk](mailto:alyson.smith@wales.gsi.gov.uk)

To receive regular free updates on all opportunities from the network, please register on [www.enterpriseeuropewales.org.uk](http://www.enterpriseeuropewales.org.uk)

### Technology Requests

#### Food manufacturer integrating functional ingredients preventing osteoporosis – REF:10 BE 0213 3GKM

A Belgian company, has developed a natural bioactive that addresses the metabolic syndrome and ageing related chronic health, such as osteoporosis. The functional ingredient is extracted from a natural antioxidant: the olive polyphenols. The company is searching for partners for prototyping new products in the health food or pharmaceutical sectors.

#### Formulation of a very large complex protein into a matrix approved for use in the nose – REF.:10 GB 41n8 3GL5

A UK biotech company is looking for various sources capable of design of formulation matrix which is approved for use in the nose and which will allow diffusion of a very large complex protein. A formulation of their large protein drug is needed for later stage clinical trials. Company is looking for commercial agreement with technical assistance, with a potential for downstream commercial supply.

#### Insulated medicine box is sought for safe carrying – REF.:10 TR 99PD 3GFN

A Turkish company is working on an insulated box used for transporting temperature sensitive medicine. The box will keep protein structured medicine in between 2 and 8 °C for 100 hours. The company seeks technical cooperation with research centres and companies experienced in medicine tracking and conservation.

#### New applications in monoclonal antibodies, cell lines and cell-based assays – REF.:10 NL 60AF 3G97

A Dutch SME, specialised in pre-clinical development of monoclonal antibodies, generation of GMP-ready protein producing cell lines, development and execution of cell-based assays is looking for partners to progress new applications for their platform technology and new assays.

#### Novel in-vitro diagnostic technologies – REF.:10 GR 49Q1 3GOT

A Greek SME with 25 years presence in the healthcare sector is seeking to expand its products portfolio with novel in-vitro diagnostic products in real-time PCR technology, microchips array technology and novel technologies for clinical laboratories through commercial agreements with technical assistance.

### Technology Offers

#### Nanostructured biocides for medical applications – REF.:10 MT 59AE 3GME

A Maltese company proposes a technology for production of montmorillonite intercalated by ions of biometals.



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This nanomaterial, having a biocide and fungicidal activity, will be integrated in the production of cosmetics, medical textiles, medical polymers and coatings. Company seeks partners interested for licensing and technical cooperation agreements.

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#### **Portable Surgical Assessment Device – REF.:10 GB 4407 3GDX**

A UK university has developed a special glove, designed to be fitted onto the hand of a training surgeon, which contains a sophisticated motion tracking system. Hand movements and motions during a surgical procedure are captured by software designed to collect positional data and convert this data to dexterity measures. It relates to a training package that provides skills training and assessment for surgeons. The university is looking for partners for licensing/ further development.

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#### **A Novel Luminescent Label for Fluorescence and Chemiluminescence-Based Bioassays and Cellular Probes – REF.:10 GB 4407 3G9Q**

A world class UK university presents a novel fluorescent and chemiluminescent labelling system for fluorescent and direct chemiluminescent bioassays, based on pro-chemiluminescent properties of the active pharmaceutical ingredient (API) fluorescent molecule. API-labelled biomolecules are detected with the use of a developing agent, whereupon the API label is converted to a non-covalently bound and sensitive chemiluminescent substrate. Partners sought for licensing/ joint further development.

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#### **Slow-release cisplatin delivery system for treating cancer – REF.:10 GB 4407 3GCH**

A UK London-based organisation offers a slow-release method of delivering anticancer drug Cisplatin that also targets specific tumours, rather than affecting other organs. Cisplatin is widely-used but is very toxic. The technology incorporates cisplatin into a phosphate-based glass that is biologically degradable, allowing a controlled mechanism of delivery. The organisation is seeking partners developing therapies that target specific tissues only and releases drugs in a controlled way.

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#### **Algorithm for predicting membrane-associated location of protein sequences that are drug**

#### **targets – REF.:10 HR 89GO 3GAB**

A Croatian structural bioinformatics group has developed an accurate algorithm for predicting sequence location and membrane orientation of alpha-helices found in integral membrane proteins. It offers better secondary prediction for membrane-associated parts of integral membrane proteins; important in finding protein targets for different drugs. The group seeks research partners and companies for joint further development of user friendly software packages and for licensing.

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#### **Bioresponsive nanoparticle aggregates with medical, environmental and security applications – REF.:10 GB 4407 3GDS**

A UK university has developed a novel method for the reversible assembly/disassembly of nanoparticle aggregates which is triggered by enzyme reactions. The system has a wide range of applications from medical diagnostics and drug delivery to detection of bio-warfare agents. University seeks partners for licensing/ joint further development.

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#### **Hermetically sealed, pre-filled, and easy to use disposable contact lens case – REF.:10 GB 46P4 3GLE**

A Scottish SME has developed and patented the world's first hermetically sealed, pre-filled, and easy to use disposable lens case. Made in injection-moulded plastic with a basket inside, the product is ideal for planned and emergency situations when a contact lens user needs to remove their lenses but has no access to conventional bottled solutions and lens cases. The company seeks licensees, JVs and potentially financial resources, to assist in commercialising the product in different domains.

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#### **Label-free detection of proteins – REF.:10 GB 4407 3GEN**

Researchers at a London university (UK) has developed an electrical method of detecting proteins in aqueous solution, which offers an inexpensive and rapid label-free protein detection.. Applications of the technology are wide-ranging, including, biomarker chips, detection of bio-warfare chemicals and pollutants and point-of-care diagnostic kits. The university seeks industry partners for further development/ licensing.