PR SAMPLES

2022

January 2022

Tutum Medical has WON the Delivering Innovation in to Health and Care Award

We are proud to announce that Tutum Medical from Chesterfield has won the Delivering Innovation in to Health and Care Award 2022 at the Medilink Midlands Business Awards and will now go forward to the prestigious national Medilink UK Healthcare Business Awards in June 2022. Tutum were also a finalist in the Advances in Digital Healthcare Award.

The Award is for the development of BEAMS (Bedside Equipment Critical Alarm Monitoring System), the only acoustic monitoring system for all critical bedside alarms, to improve response times to situations quickly and efficiently for improved patient outcomes, better workflow for staff and to reduce healthcare costs.

Bedside alarms in single-patient hospital rooms are increasingly going unheard by hospital staff (this has been exacerbated during Covid with more single bed rooms and closed wards for infection control), leading to major incidences, such as: Patients failing to get the prescribed amount of medication; Deterioration of patient's health; Serious injury and even death.

Paul Rawlinson, Managing Director of Tutum Medical Ltd said: "Winning this award is fantastic and a worthy accolade to everyone involved in developing the unique BEAMS monitoring system. I would especially like to thank Sheffield Children's Hospital who initially approached us to develop this system for them, and to Professor Derek Burke and Sue Ievers who have been outstanding in their support and encouragement at the hospital."

With larger wards and more soundproof, single occupancy bed rooms planned for the new wing at Sheffield Children's Hospital, a demand arose for a bedside equipment monitoring system. The hospital approached Tutum Medical Ltd to develop a suitable system. The successful BEAMS system has now been installed in 70 single occupancy rooms across six wards in the hospital and improves response times to equipment alarms and helps ensure alarms do not go unheard. BEAMS has reduced the number of alarms taking >2 minutes to respond to by 78%, >5 minutes by 88% and >10 minutes by 95%.

"We are currently undertaking free BEAMS trials at a growing number of UK hospitals and hopeful of many more orders in the next few months," explained Paul Rawlinson, "*With a BEAMS system installed you can keep your patients safe by ensuring that staff are fully aware of all bedside alarms, even if they cannot be heard behind a closed door. BEAMS lets staff know where the alarm is sounding and which alarms are a priority, so they can prioritise patient care."*

The Medilink Midlands Business Awards is an annual event bringing together the Midlands Life Science community to celebrate the achievements of companies from across the regions. The Delivering Innovation in to Health and Care Award is **sponsored by the West Midlands and East Midlands Academic Health Science Networks (AHSN), for an innovation that is being adopted by the NHS and that has demonstrated an impact on efficacy, patient outcomes and NHS system costs.**

For more information on BEAMS visit: www.tutummedical.com

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Picture: 'Paul Rawlinson, Managing Director, Tutum Medical Ltd'

January 2022

Delivery of Cell and Gene Therapy Transformed

A new product developed between Bedford-based Life Science Group Ltd (LSG) and Coventry University has the potential to transform the delivery of cell and gene therapy and in the longer term make these cutting-edge, personalised treatments more accessible.

CellShip® is a cell shipment and storage medium that has been developed during a three-year, £250,000, highly successful Innovate-UK-Funded Knowledge Transfer Partnership (KTP).

This medium is a sterile, xeno-free alternative to cryopreservation (the use of very low temperatures to preserve structurally intact living cells and tissues) for the transport and short-term storage of cells and contains a non-toxic additive designed to protect them against shear stress and maintain membrane integrity.

Data from initial tests during the product development process shows the product permits the transportation and short-term storage of a variety of cell types at ambient temperatures, and is a simple and low-cost alternative to cryopreservation, allowing for rapid and immediate recovery of cells.

Cell and gene therapies have the potential to address complex diseases and disorders, such as motor neurone diseases, and many rare disorders for which traditional medical treatments are very challenging.

Jenny Murray, Managing Director of Life Science Group, said: “Personalised medicine is a new approach to healthcare which will revolutionise treatments over the next 15-20 years.

“If you’re going to have a medicine that is not just available to wealthier countries you need a way of transporting cells in an affordable and controllable manner.

“CellShip® offers the ability to transport cells at ambient temperatures, which allows cells to be accurately controlled, to reduce the potentially detrimental loss of cells, and negates the requirement for the addition of toxic cryoprotectants.

“CellShip® would not exist without Coventry University’s technical and scientific expertise, their support and access to their world class research facilities.

“We are keen to maintain this relationship as we continue the process of moving this new product to market through further research and clinical trials.”

The KTP programme is part-funded by Innovate UK and is designed to help businesses improve their competitiveness and productivity by tapping into the knowledge, technology, and skills of a university collaborator.

The three-year KTP between LSG and Coventry University was led by Dr Emma Buick, and overseen by Professor Sebastien Farnaud, Professor in Bio-Innovation and Enterprise at Coventry University's Research Centre for Sport, Exercise and Life Sciences and Professor Derek Renshaw, Professor of Endocrine Physiology at Coventry University's Research Centre for Applied Biological & Exercise Sciences within the Faculty of Health and Life Sciences.

The KTP has been awarded the highest grade of 'Outstanding' by The Knowledge Transfer Partnership, and LSG Ltd has been shortlisted as a finalist in the 'Partnership between Academia and Business' category of the Medilink Midlands Business Awards 2022. The award recognises companies that demonstrate how their collaboration / partnership has or will enhance current service delivery or create new ways of delivering healthcare.

Professor Farnaud said: "The work achieved through this KTP is a breakthrough not only for the scientific community but indirectly for our society as a whole.

"This novel media, which reduces the need for dry ice, and delivers more suitable cells and tissues for all applications, provides better science at lower cost and a more sustainable communication and service between scientists, clinicians and ultimately patients."

For more information:

www.lifescienceproduction.co.uk/cellship/

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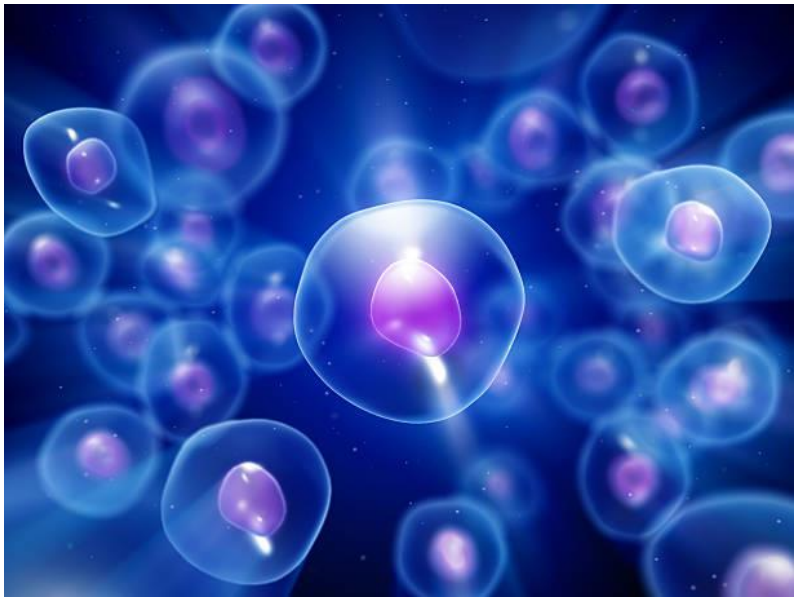

Picture: Cells

December 2020

XCAM JOINS CONSORTIUM FOR MONITORING TREES FROM SPACE

XCAM Ltd, based in Northampton, designers and manufacturers of specialized digital imaging systems, has joined a consortium of leading UK industry and academic partners, led by The Open University, to undertake a scoping study which will push the limits of leading CMOS TDI sensors and optimise system configuration to develop a new satellite platform for the classification, characterisation and monitoring of trees across urban and rural landscapes. The results from this study will inform and support a bid for full funding of the project.

Funded by the UK Space Agency, the study for the project, called TreeView, will transform the ability to measure, map and monitor the health of trees from space. The UK is leading the way in response to the global climate emergency, with a commitment for net-zero carbon emissions by 2050. A programme of significant tree planting for carbon sequestration and storage is planned by the UK government as part of this response, and applications in the emerging field of Precision Forestry such as TreeView will be crucial to the success of these initiatives. The satellite's goal, if successful, will be to provide information on the level of tree planting, and the health and management of trees across urban and rural landscapes, providing vital data to governments, industry and third sector organisations.

Karen Holland, CEO of XCAM explained further, "We are delighted to be part of this scoping study over the next four months and look forward to hopefully designing and building the complex imager required, should the project succeed to the next stage of funding. In this first feasibility stage, we will be evaluating the imager system requirements and available technology, develop a suitable imager design concept and cost up towards building the imager, and preparing it for integration and subsequent launch.

XCAM Ltd, celebrating 25 years in business, is currently experiencing significant growth in sales from around the world, with its busiest year ever, including new contracts with the European Space Agency (ESA) and several highly prestigious innovation award nominations. The success is based on its worldwide reputation and outstanding knowledge in the field of digital imaging systems, including the ability to solve complex problems.

TreeView is led by Kadmiel Maseyk from the School of Environment Earth and Ecosystems and involves the Next Generation Multi-Media Group from Computing and Communications, and the Centre for Electronic Imaging. The external partners are XCAM Ltd, In-Space Missions Ltd, RAL Space, Teledyne e2v, Forest Research, the Centre for Ecology and Hydrology, Grey Consultants Ltd and 2Excel-geo.

www.xcam.co.uk

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(Image) ‘Identification of trees with TreeView.’

(Video) https://precision-forestry.org/